APPENDIX I

Biota Tissue Figures and Statistical Outputs

ARCADIS Design & Consultancy for natural and built assets

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

REMEDIAL INVESTIGATION REPORT
APPENDIX I – BIOTA TISSUE FIGURES AND STATISTICAL OUTPUTS

Newark Bay Study Area
Newark Bay, New Jersey

May 2022

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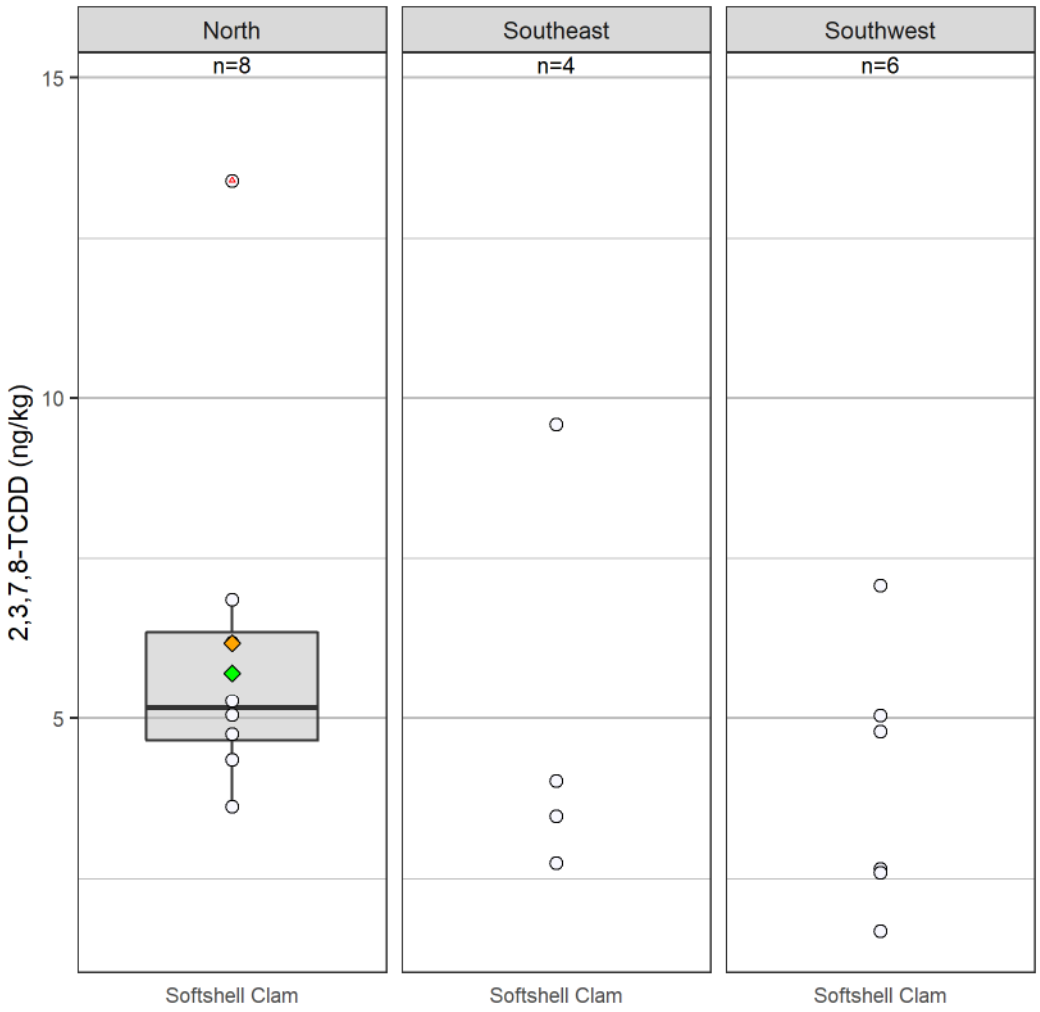
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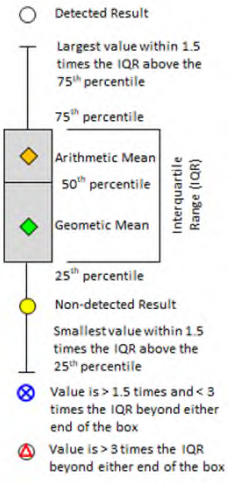
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Statistical Outputs





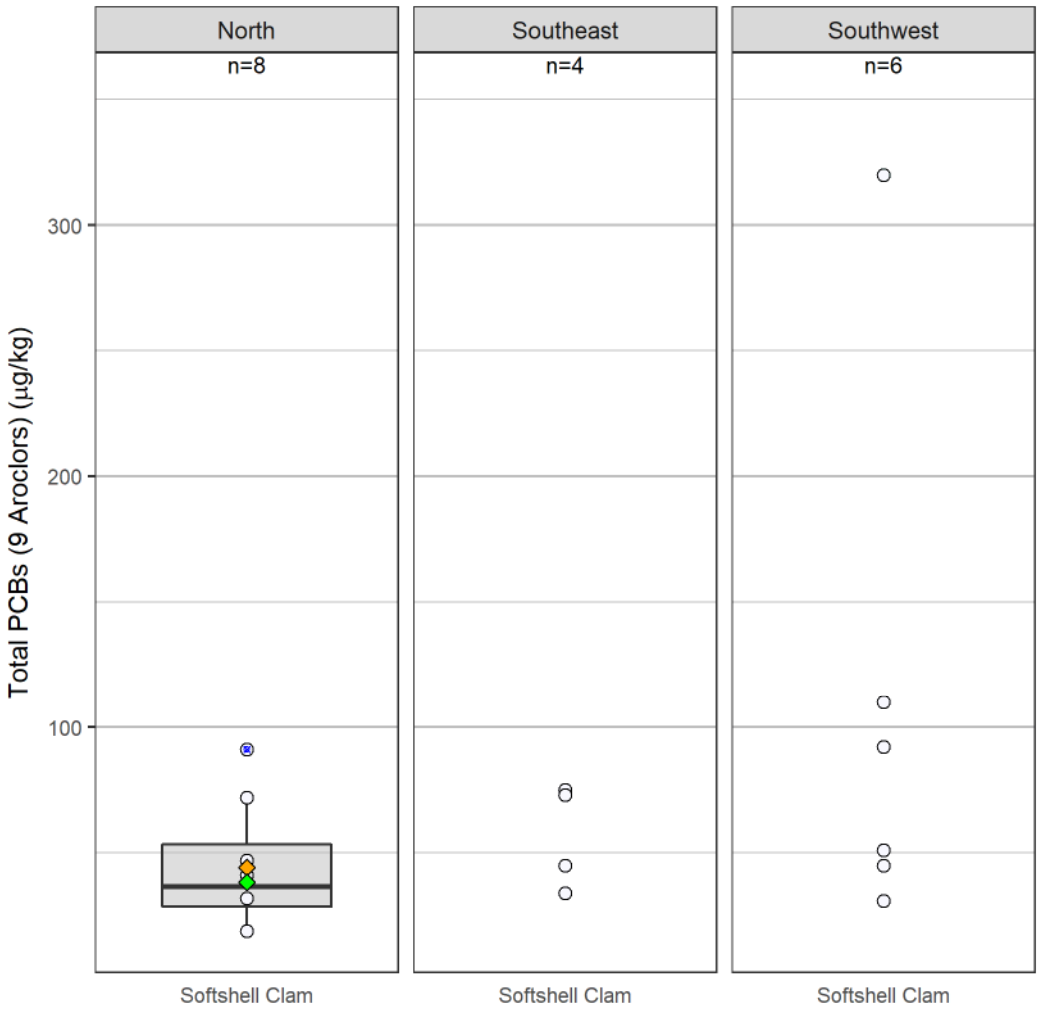
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

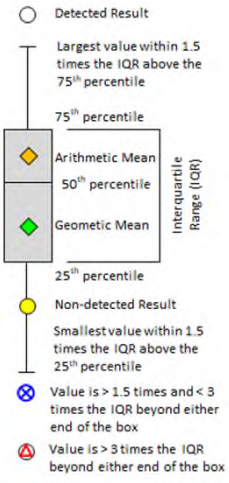
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - 2,3,7,8-TCDD

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FIGURE
I-1





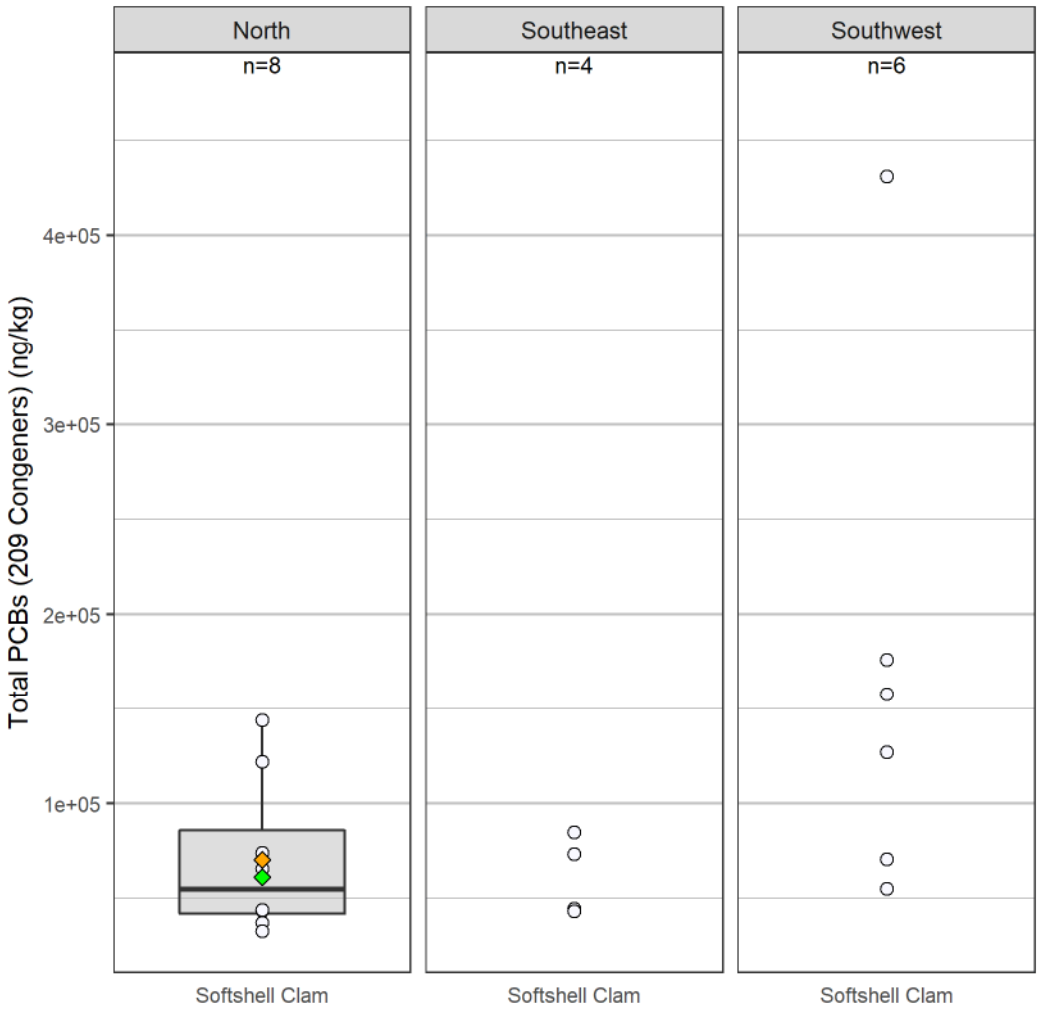
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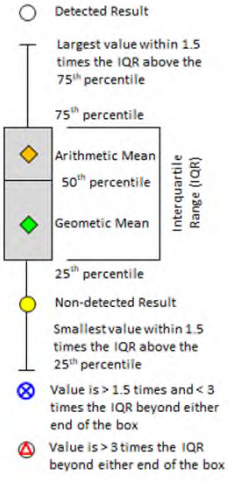
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL PCBS (9 AROCLORS)

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FIGURE
I-2





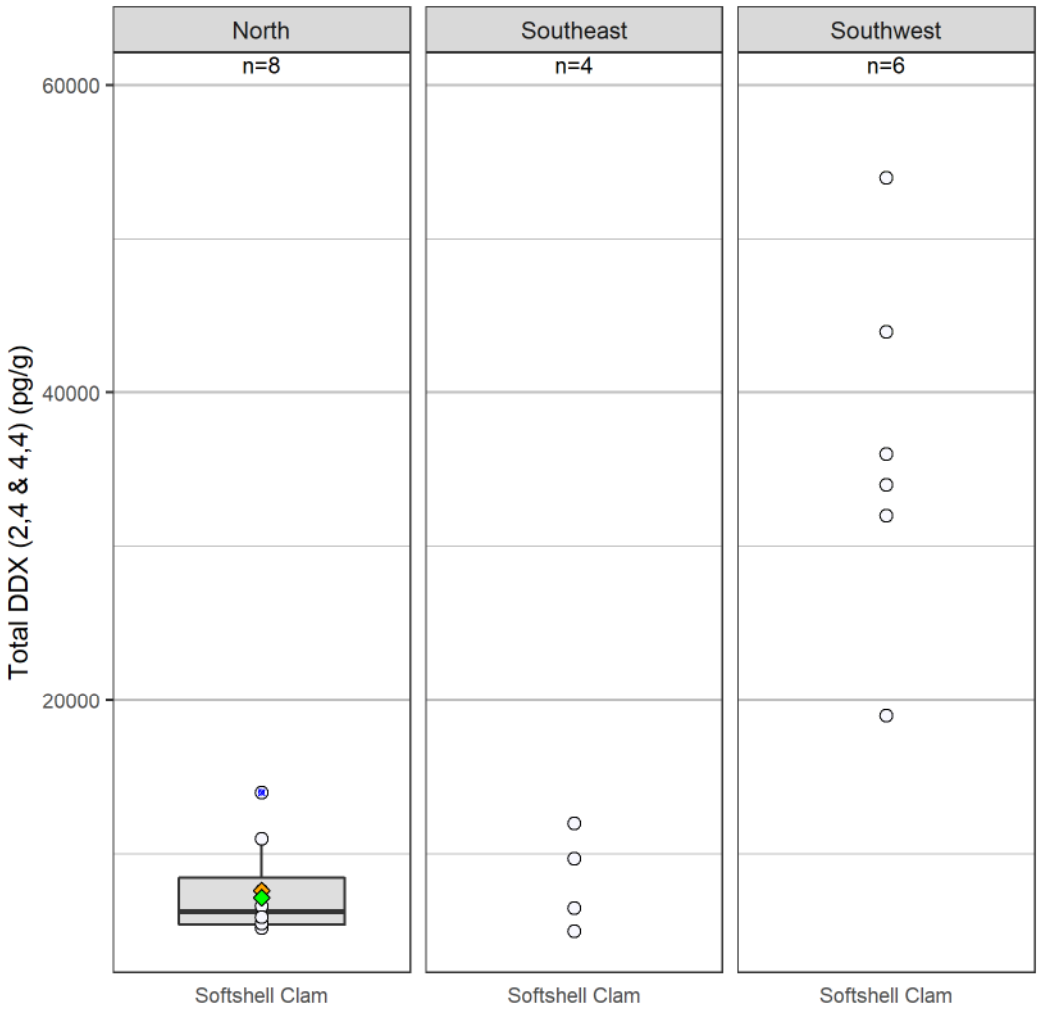
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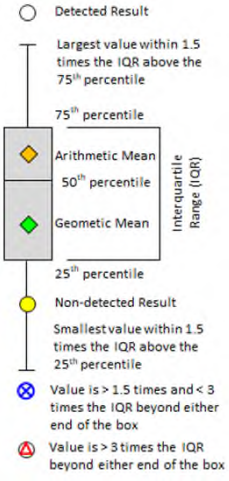
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WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL PCB (209 CONGENERS)

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FIGURE
I-3





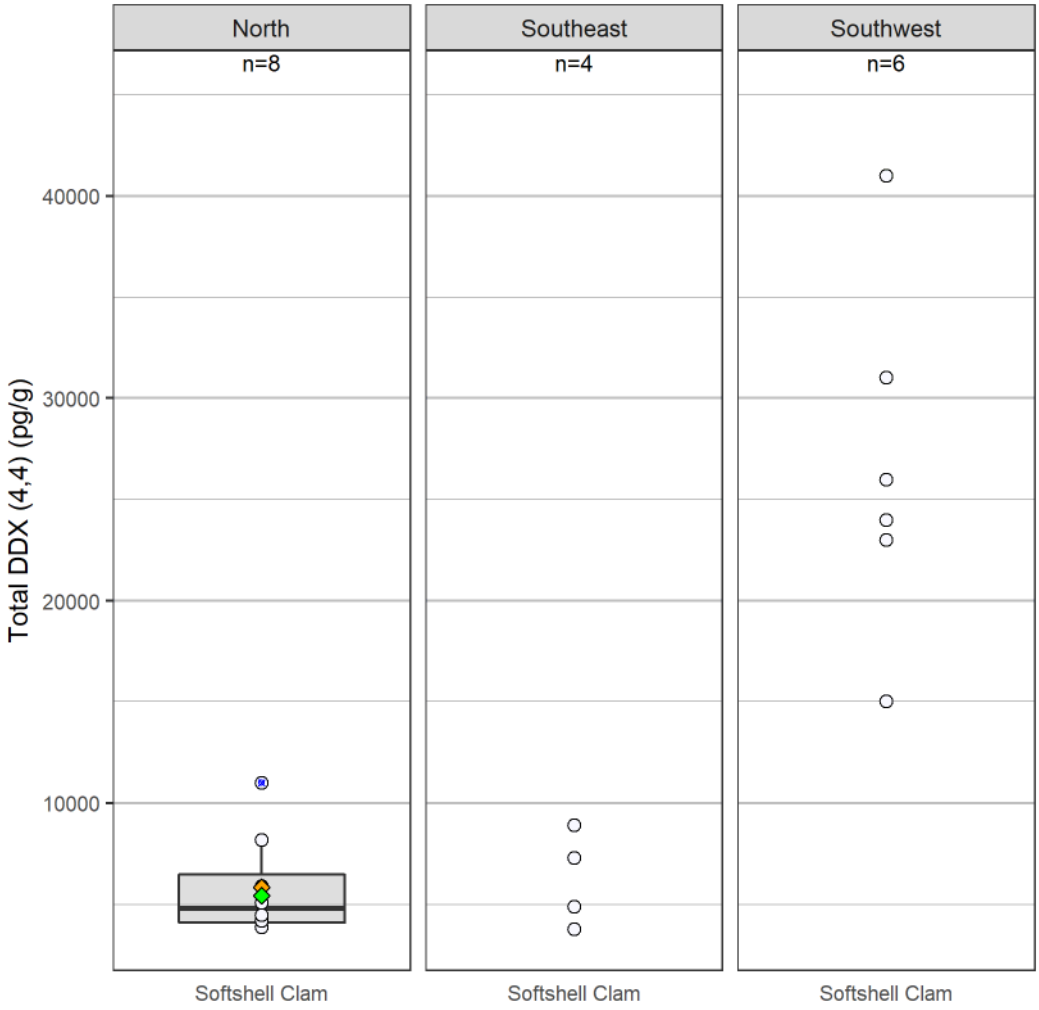
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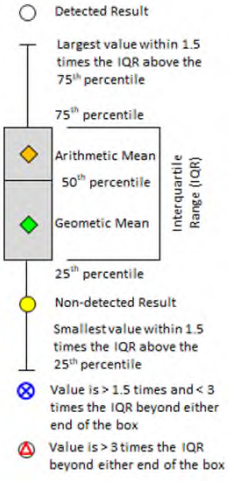
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WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL DDX (2,4 & 4,4)

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FIGURE
I-4





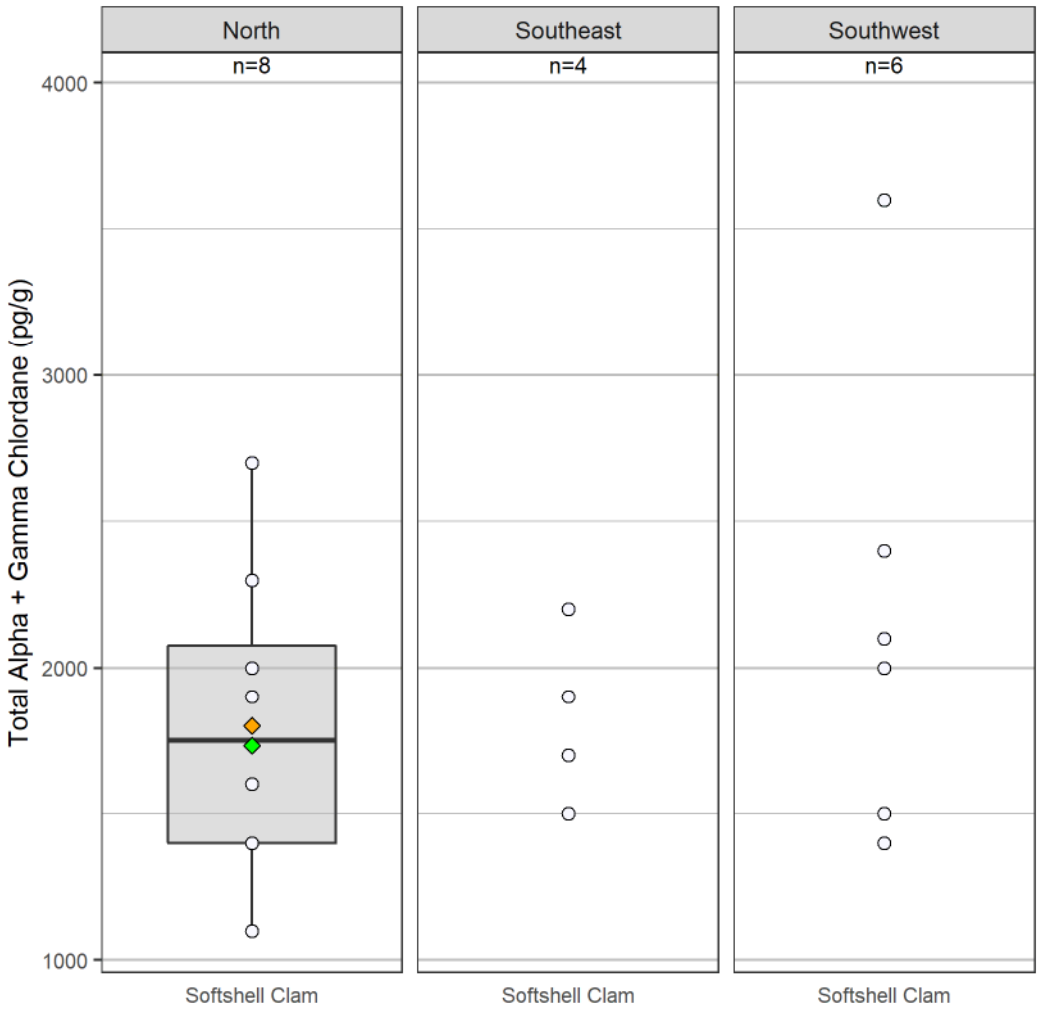
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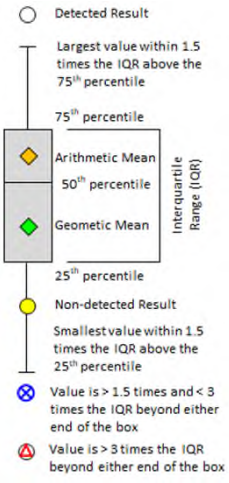
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WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL DDX (4,4)

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FIGURE
I-5





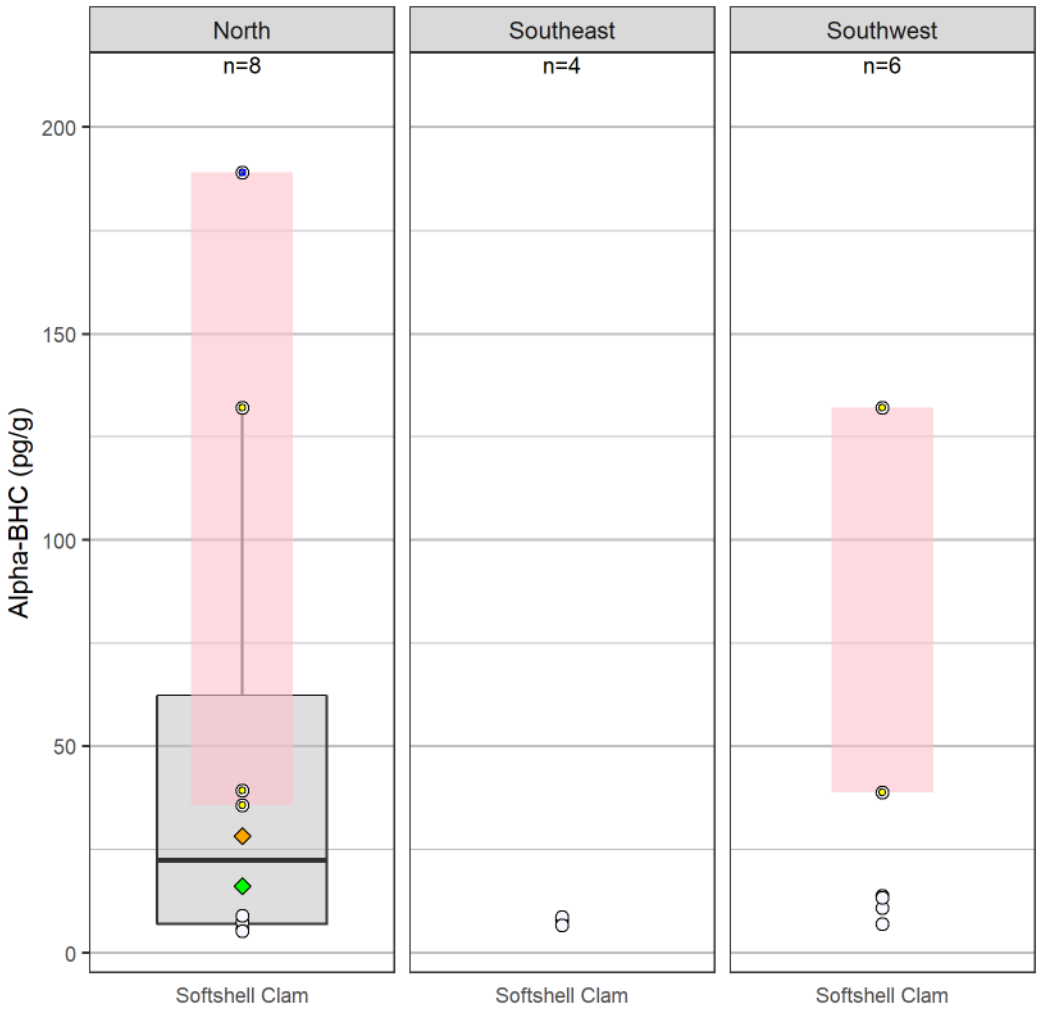
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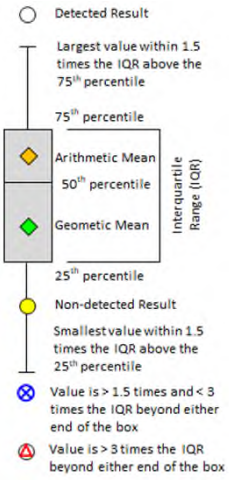
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WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL ALPHA + GAMMA CHLORDANE

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FIGURE
I-6





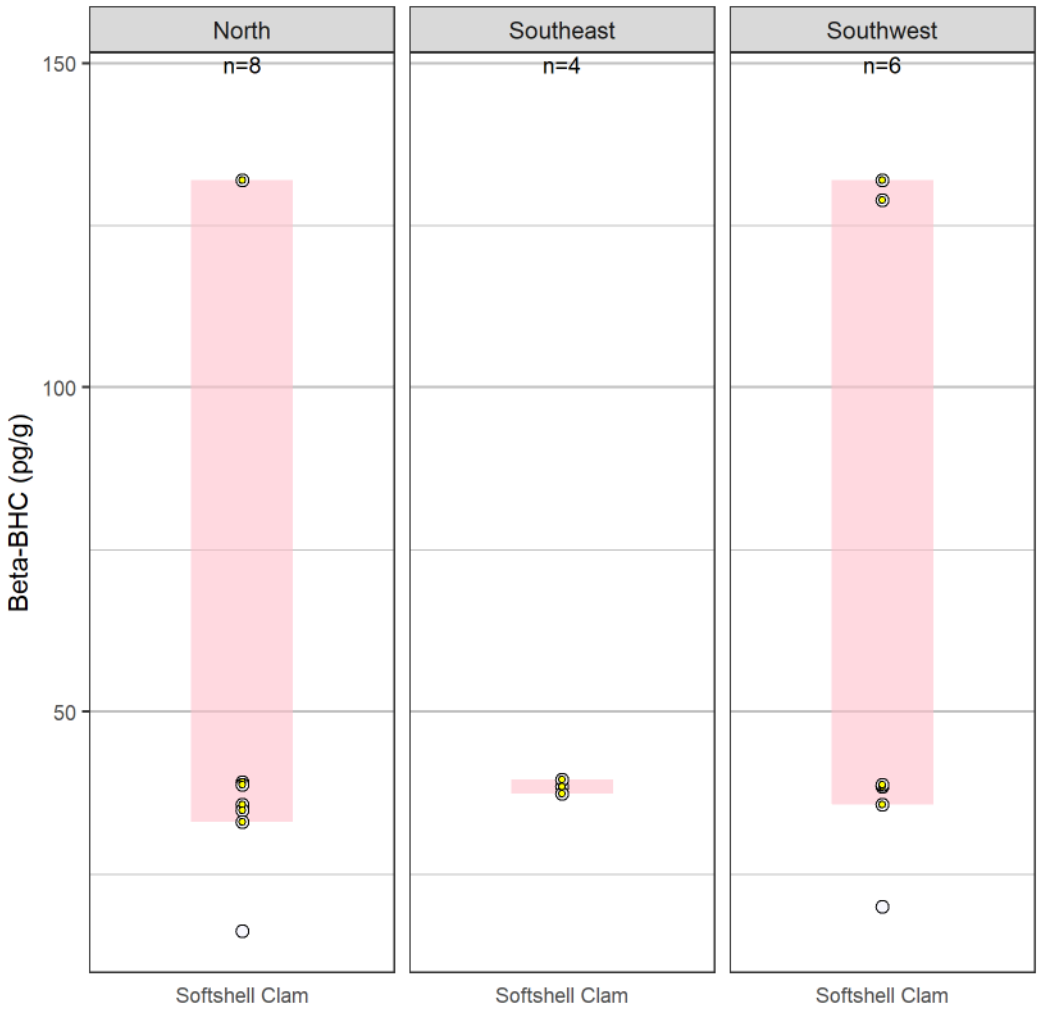
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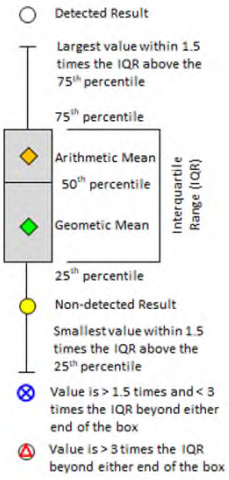
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WHOLE BODY SOFTSHELL CLAM RESULTS - ALPHA-BHC

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FIGURE
I-7





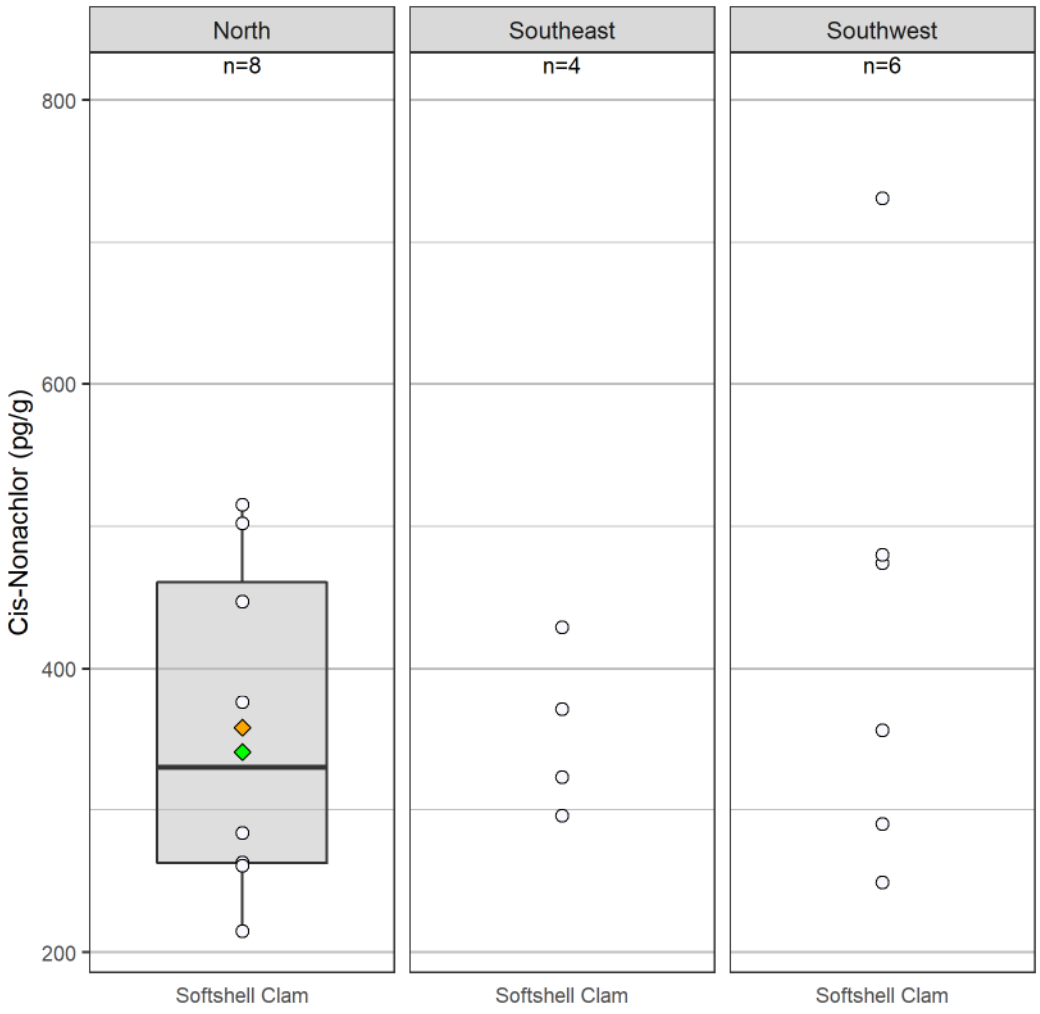
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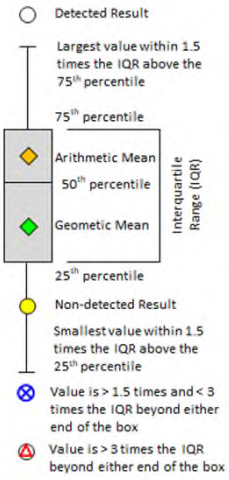
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WHOLE BODY SOFTSHELL CLAM RESULTS - BETA-BHC

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FIGURE
I-8





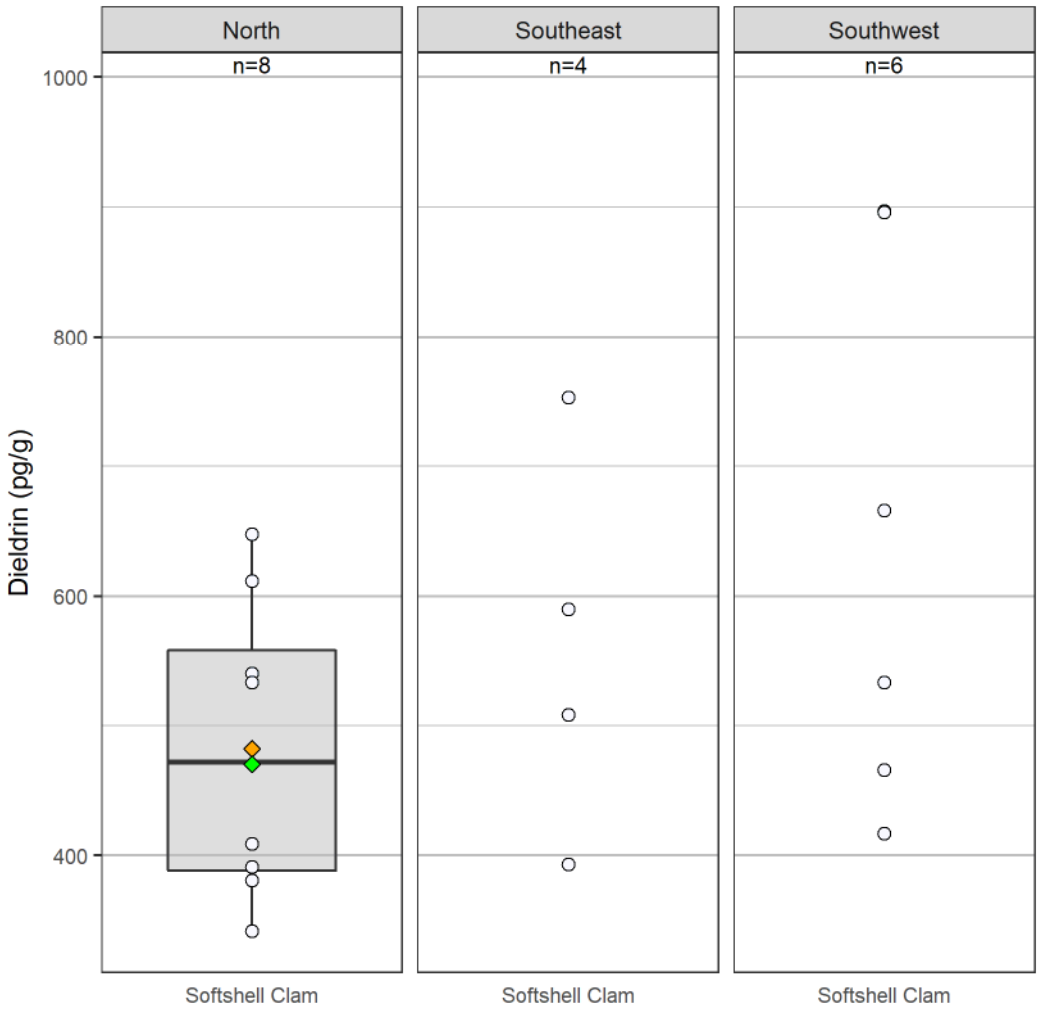
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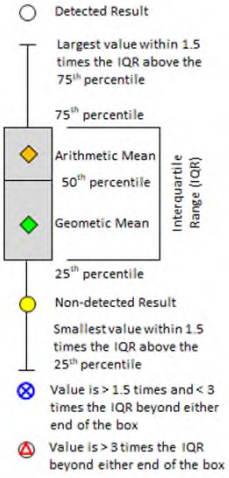
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WHOLE BODY SOFTSHELL CLAM RESULTS - CIS-NONACHLOR

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FIGURE
I-9





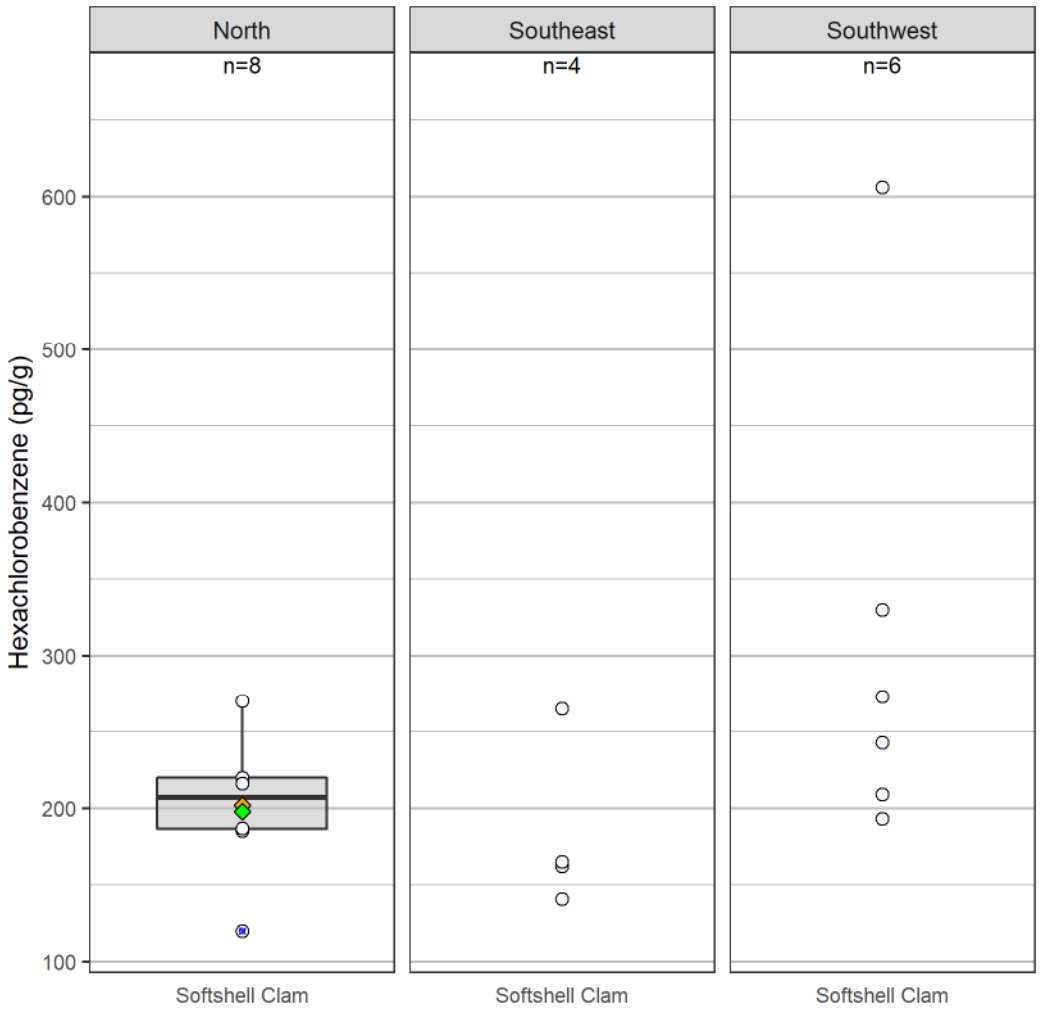
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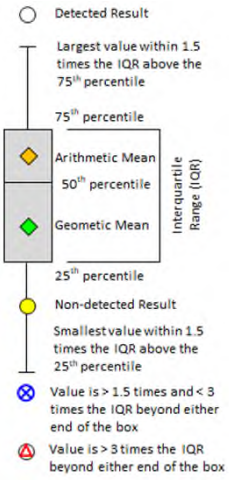
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WHOLE BODY SOFTSHELL CLAM RESULTS - DIELDRIN

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FIGURE
I-10





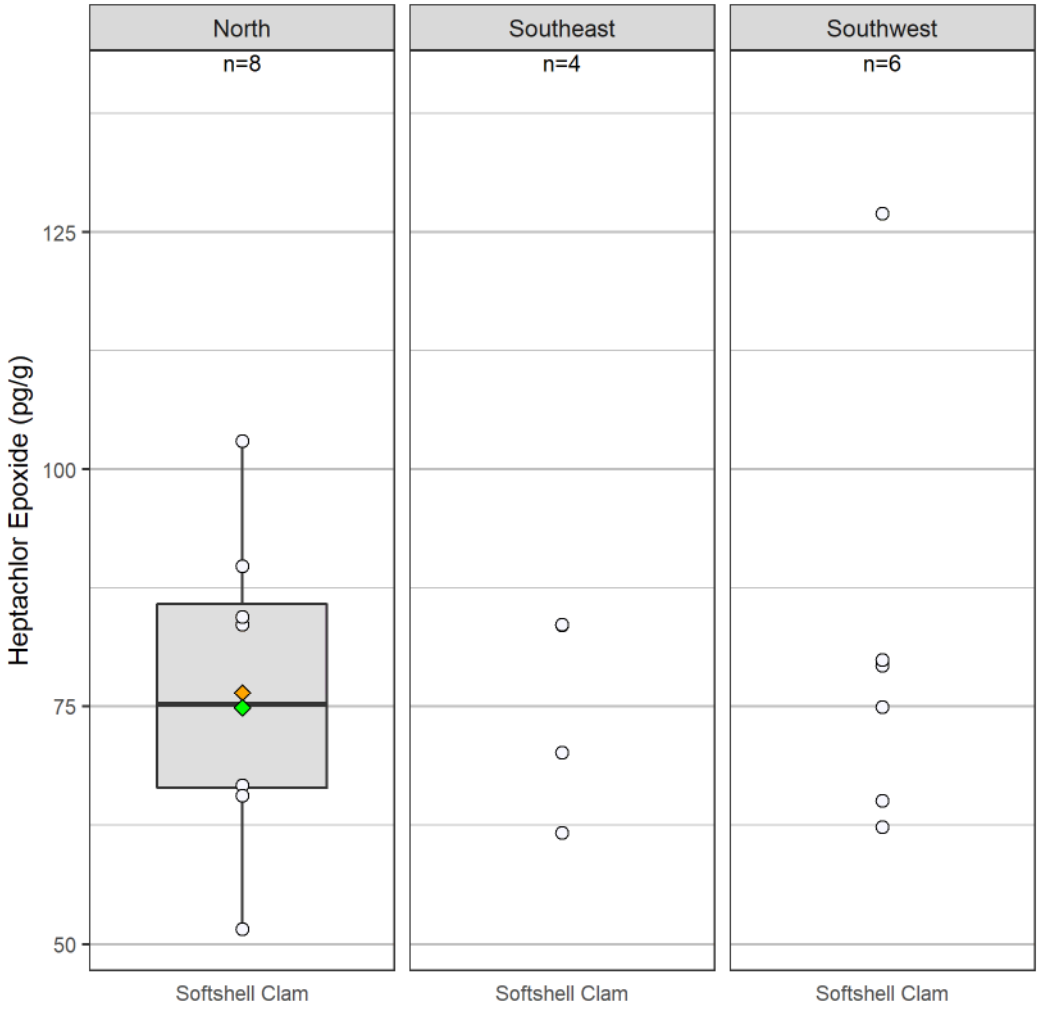
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Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

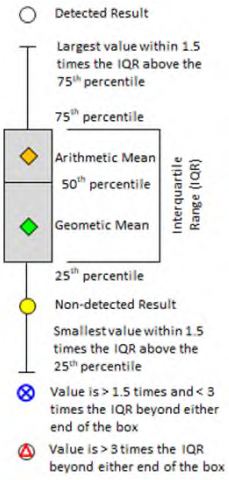
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - HEXACHLOROBENZENE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-11





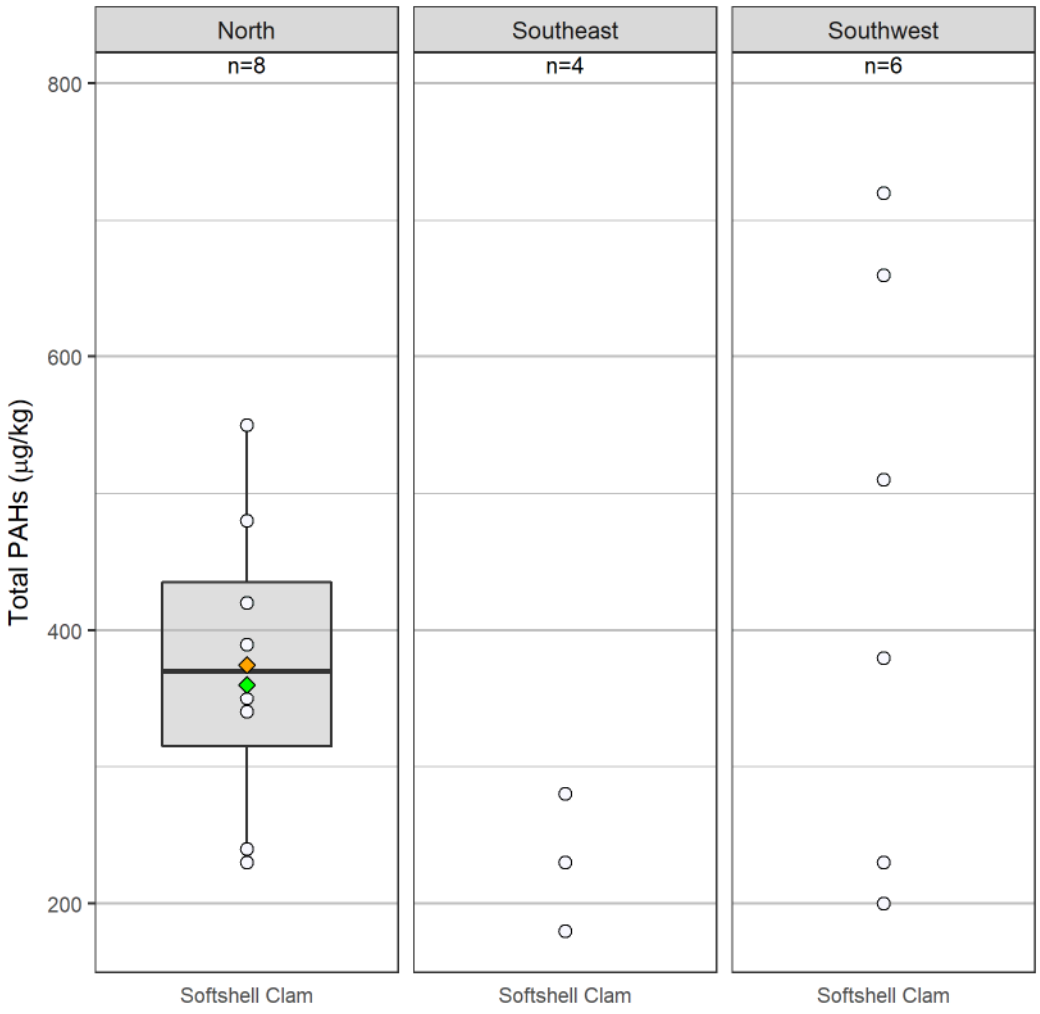
Notes:
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Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
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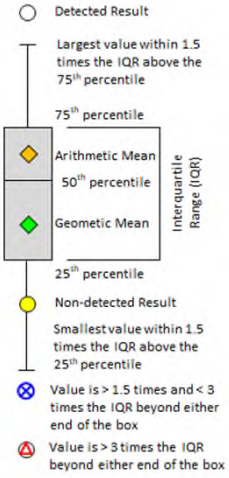
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REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - HEPTACHLOR EPOXIDE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-12





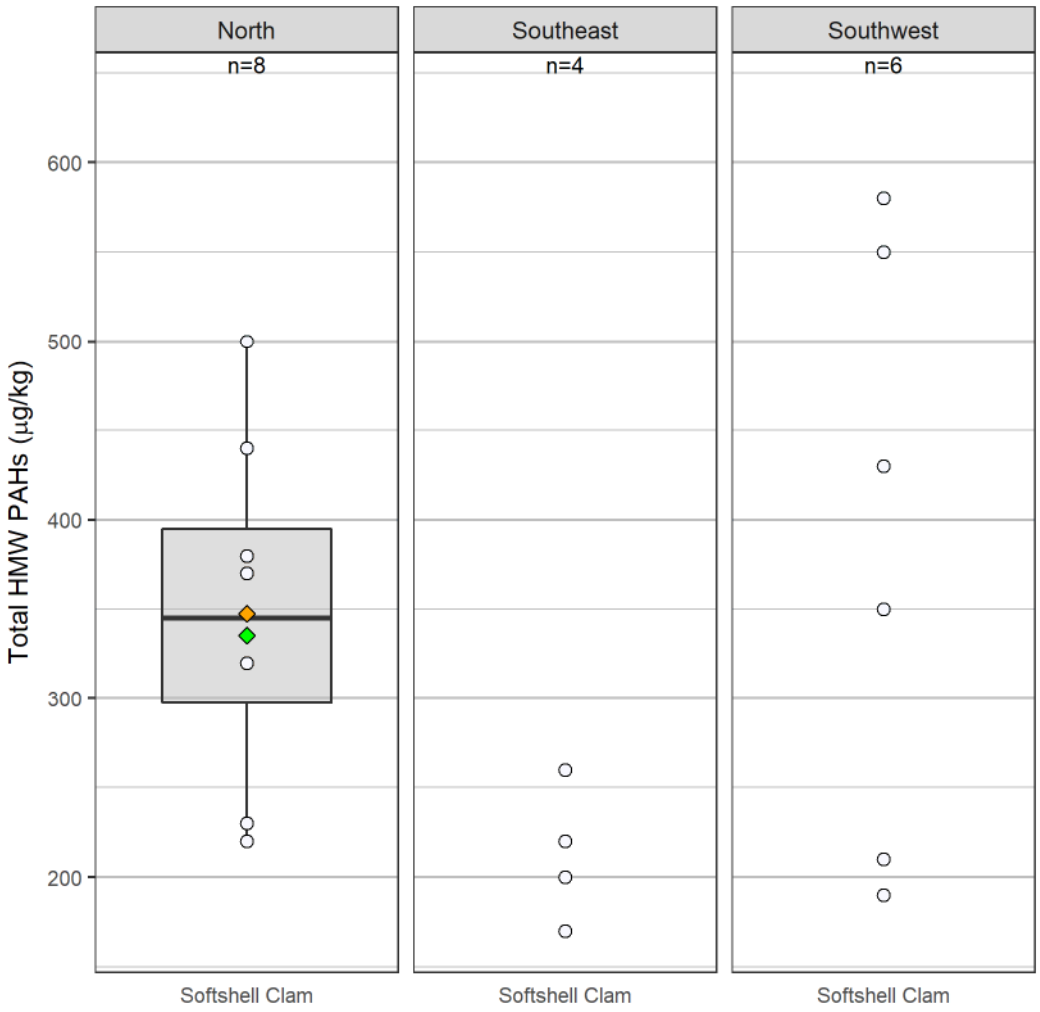
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
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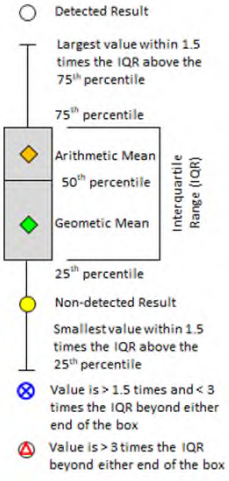
DIAMOND ALKALI SUPERFUND SITE
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REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL PAHS

Glenn Springs Holdings, Inc.
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FIGURE
I-13





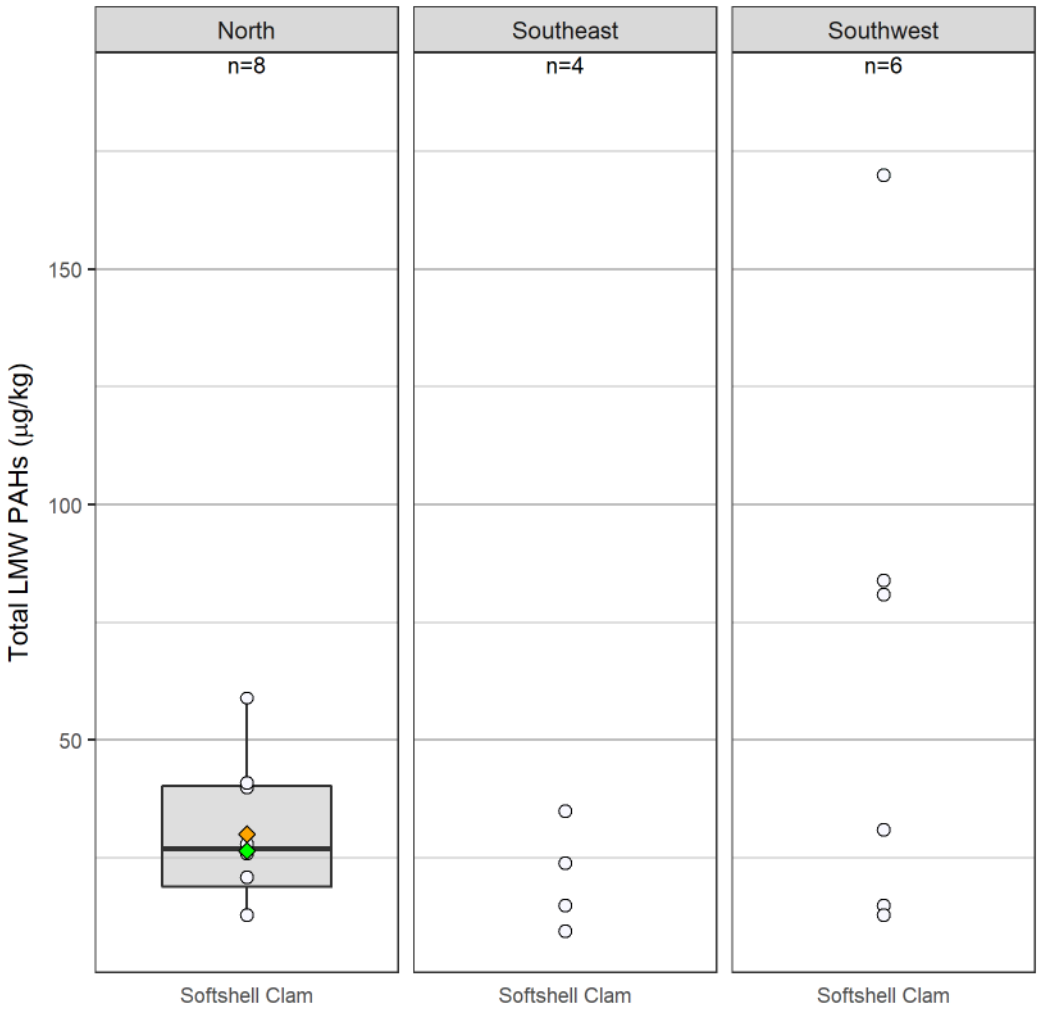
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
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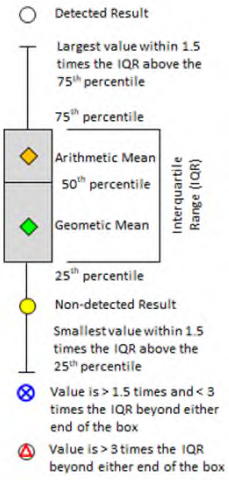
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WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL HMW PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-14





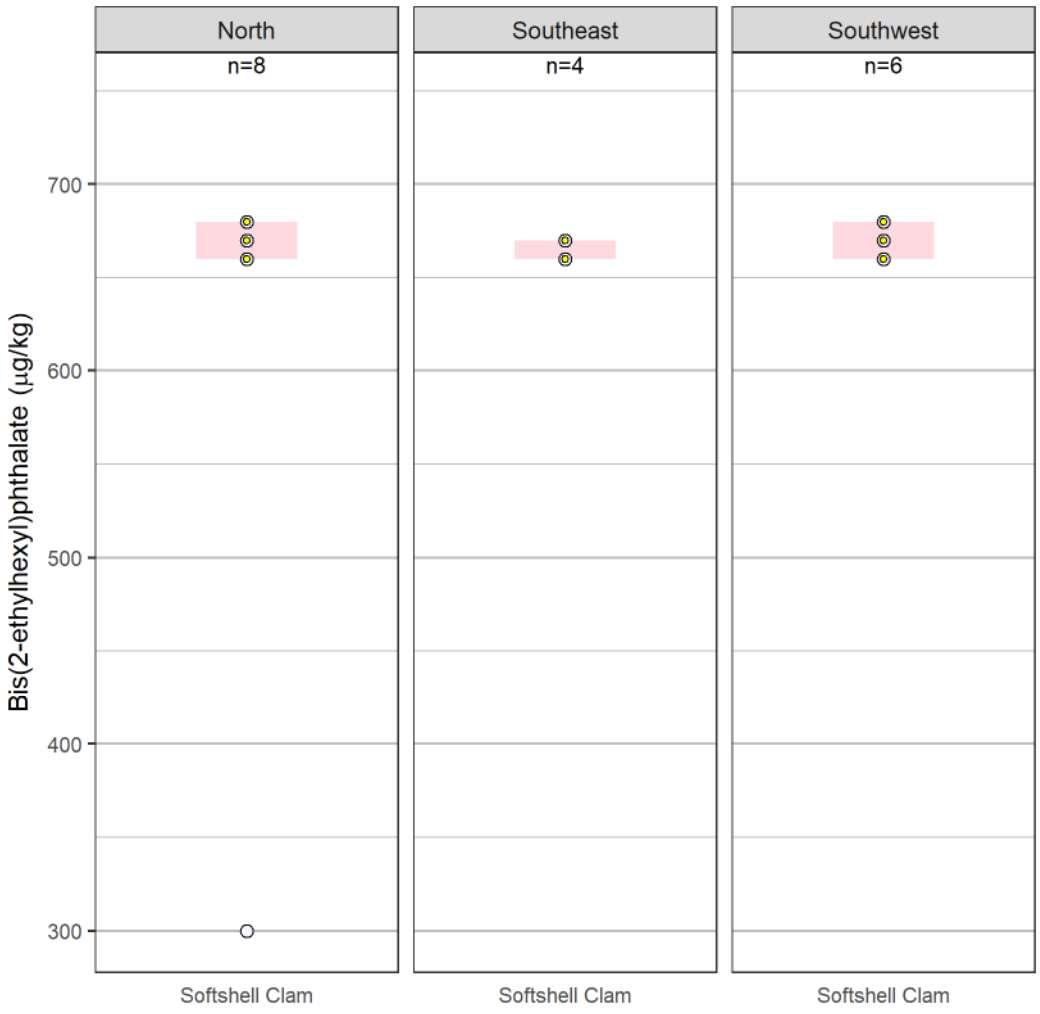
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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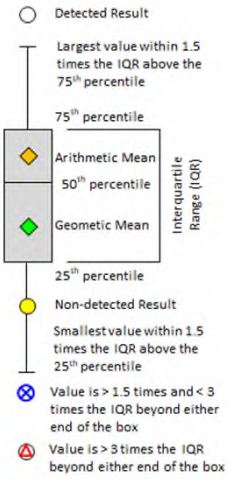
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REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL LMW PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-15





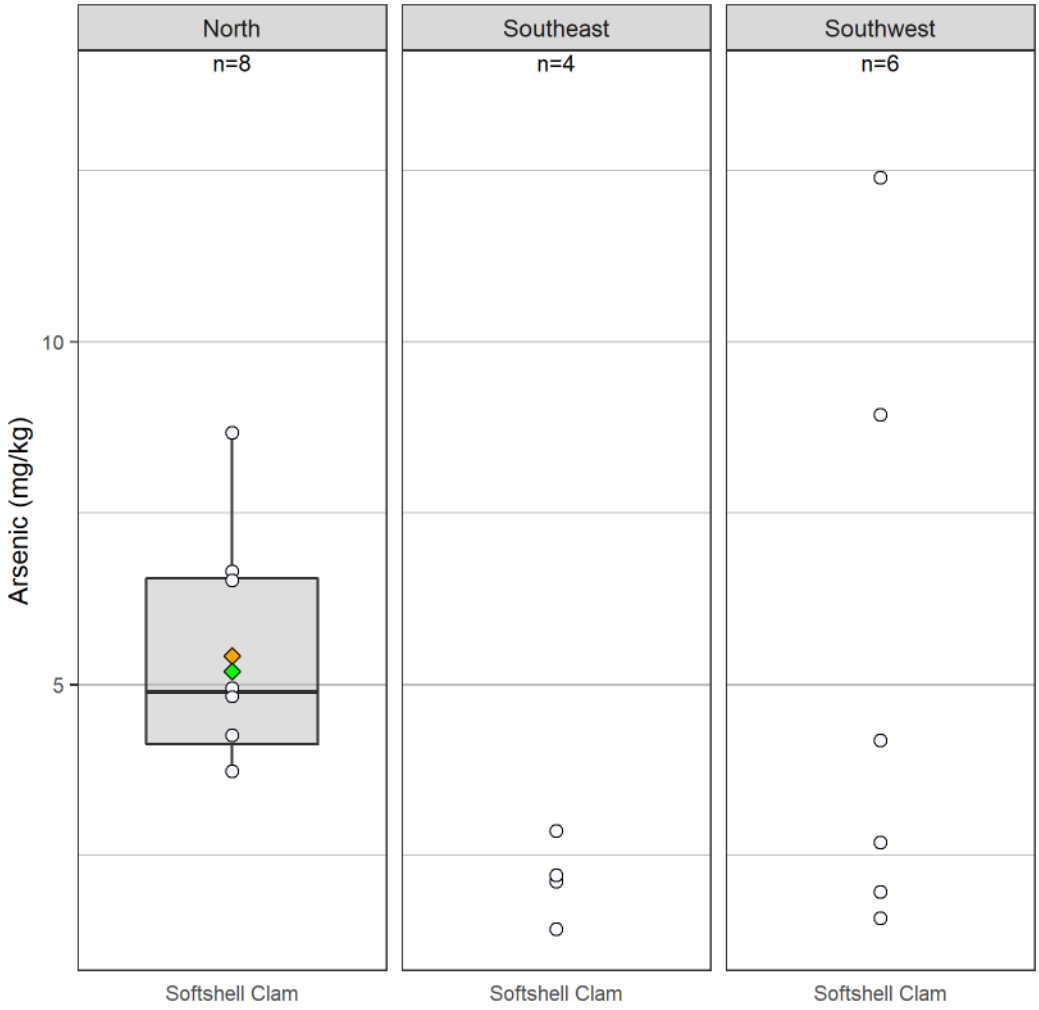
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n = number of samples
Non-detects plotted at the quantitation limit.
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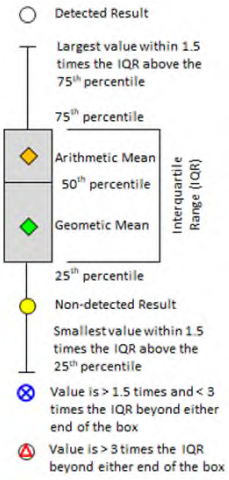
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WHOLE BODY SOFTSHELL CLAM RESULTS - BIS(2-ETHYLHEXYL)PHTHALATE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-16





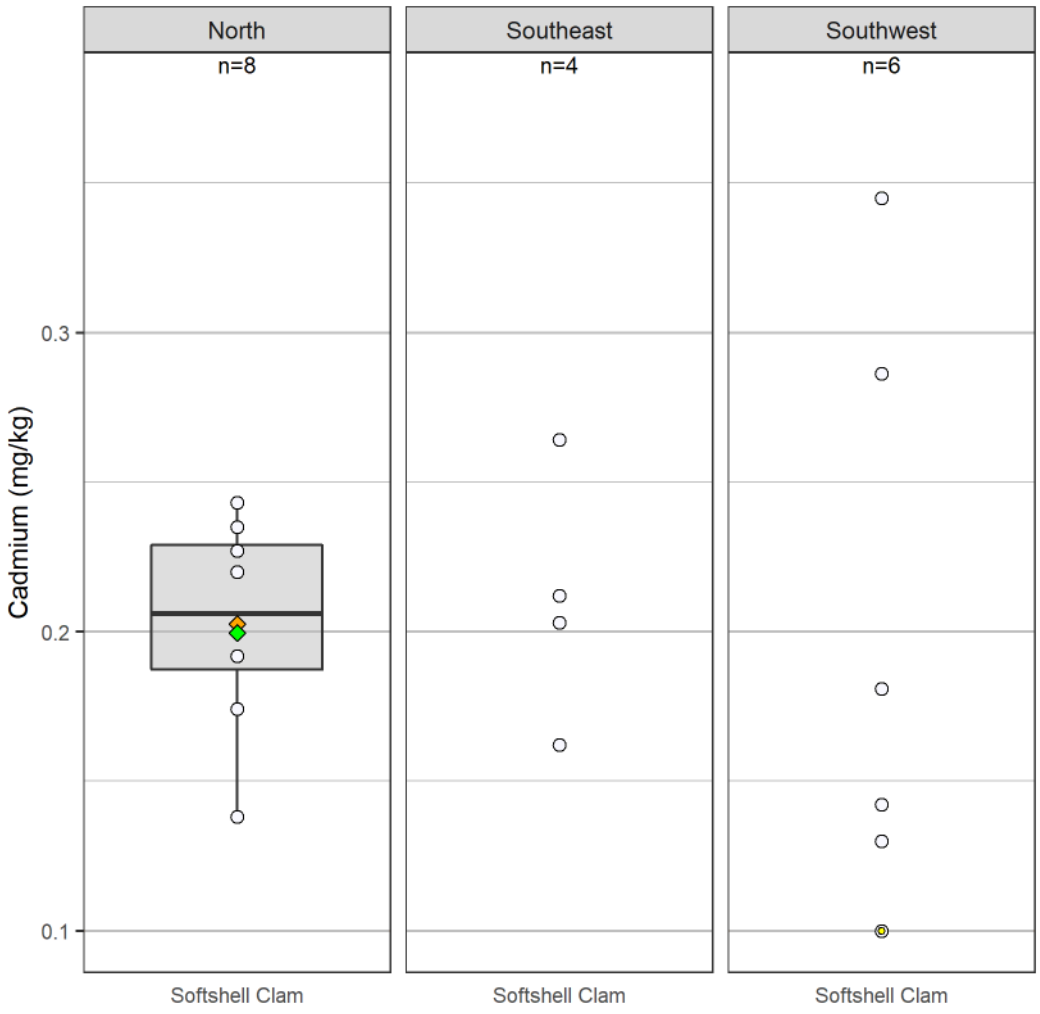
Notes:
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Non-detects plotted at the quantitation limit.
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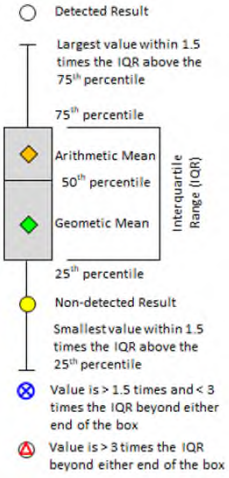
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WHOLE BODY SOFTSHELL CLAM RESULTS - ARSENIC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-17





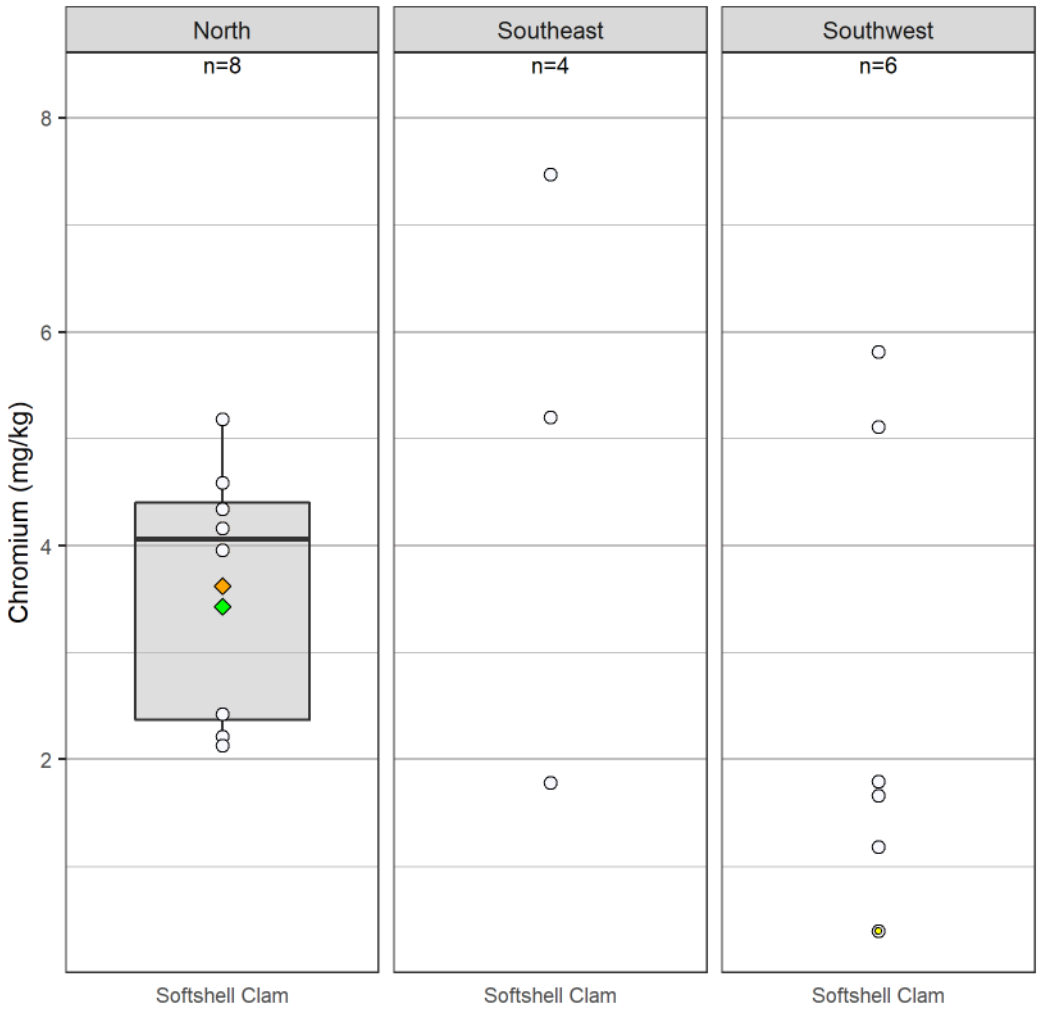
Notes:
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Non-detects plotted at the quantitation limit.
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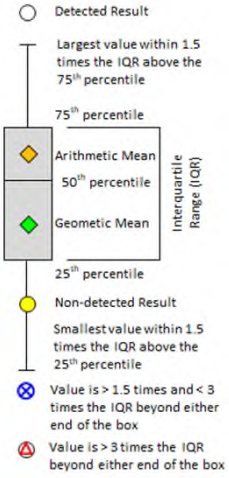
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WHOLE BODY SOFTSHELL CLAM RESULTS - CADMIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-18





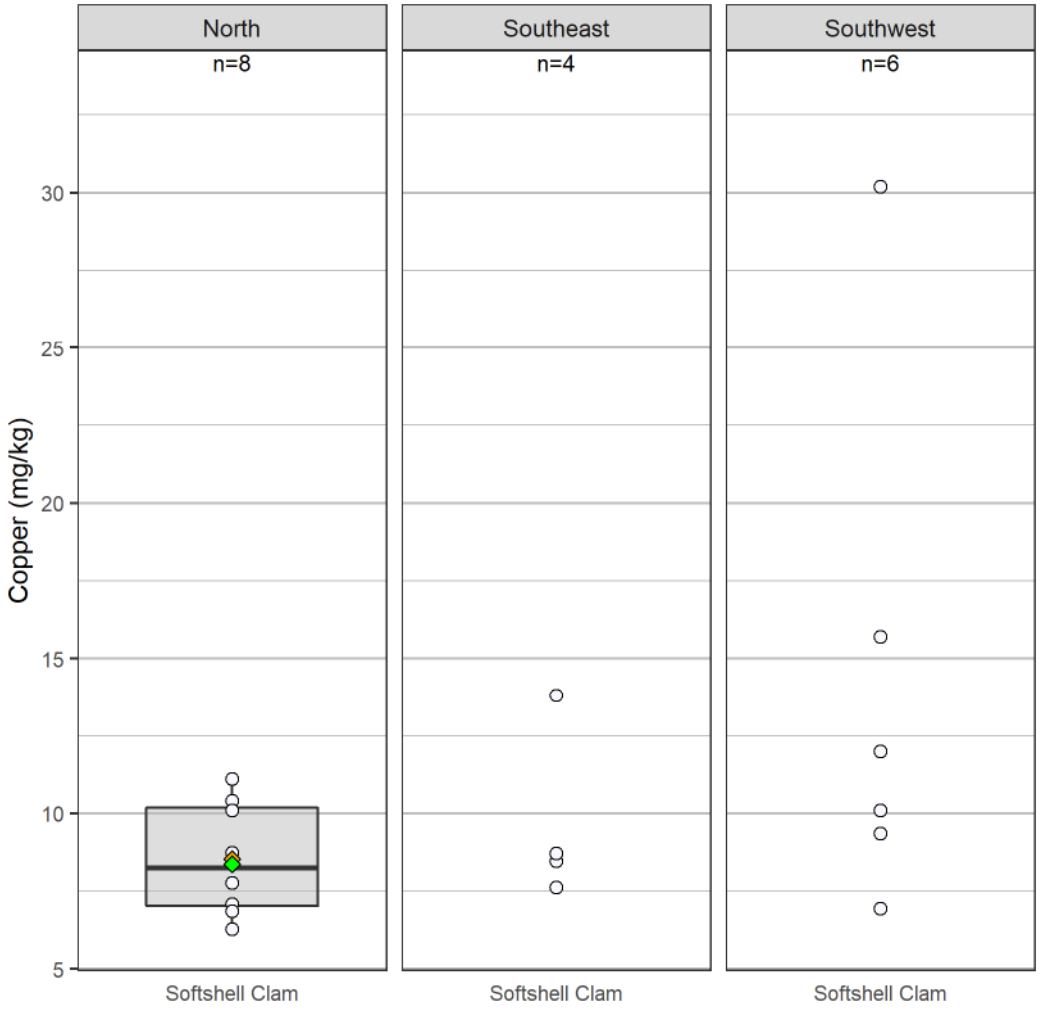
Notes:
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Non-detects plotted at the quantitation limit.
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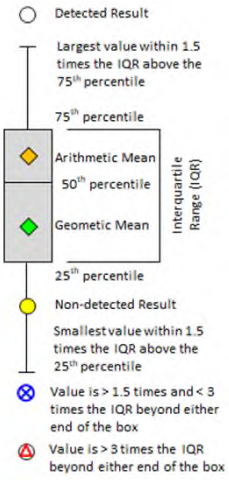
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WHOLE BODY SOFTSHELL CLAM RESULTS - CHROMIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-19





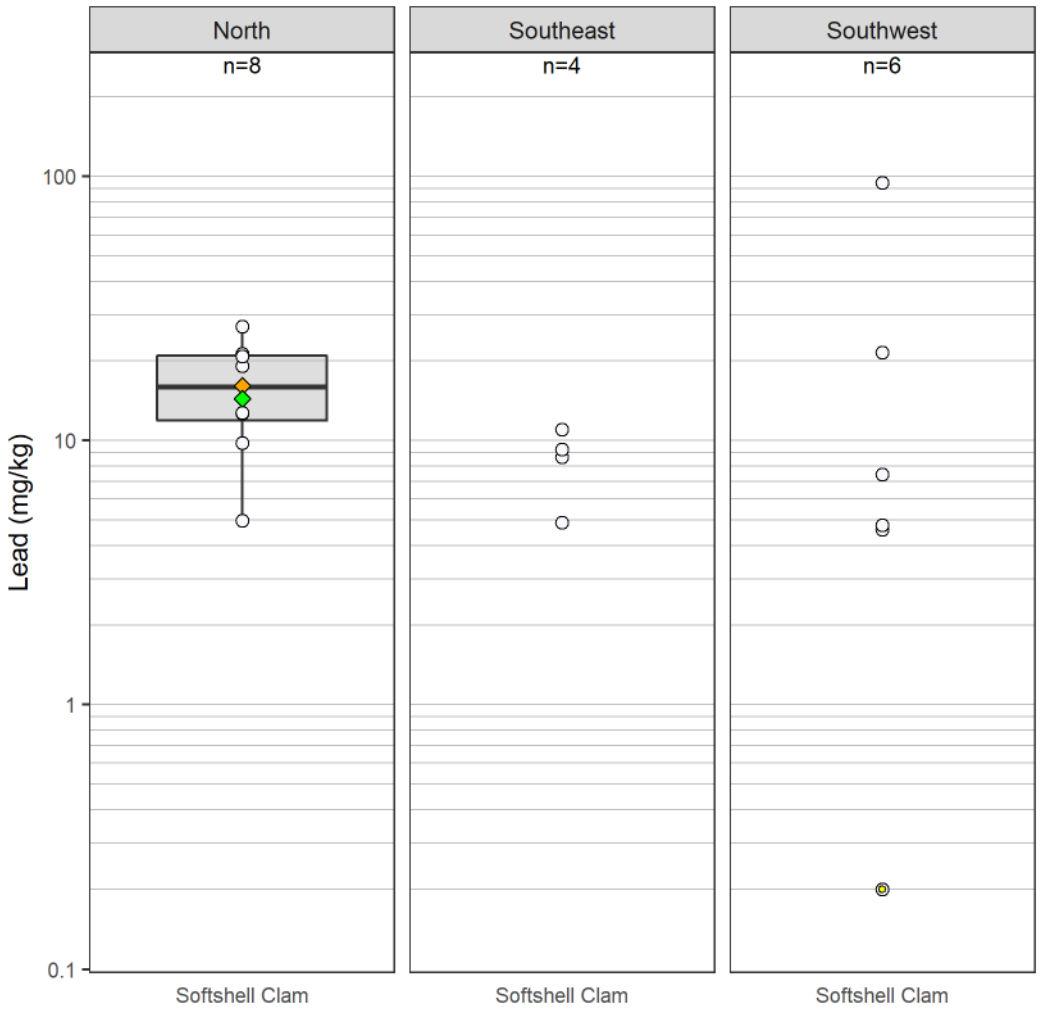
Notes:
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Non-detects plotted at the quantitation limit.
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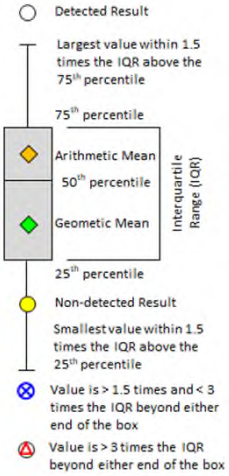
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REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - COPPER

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-20





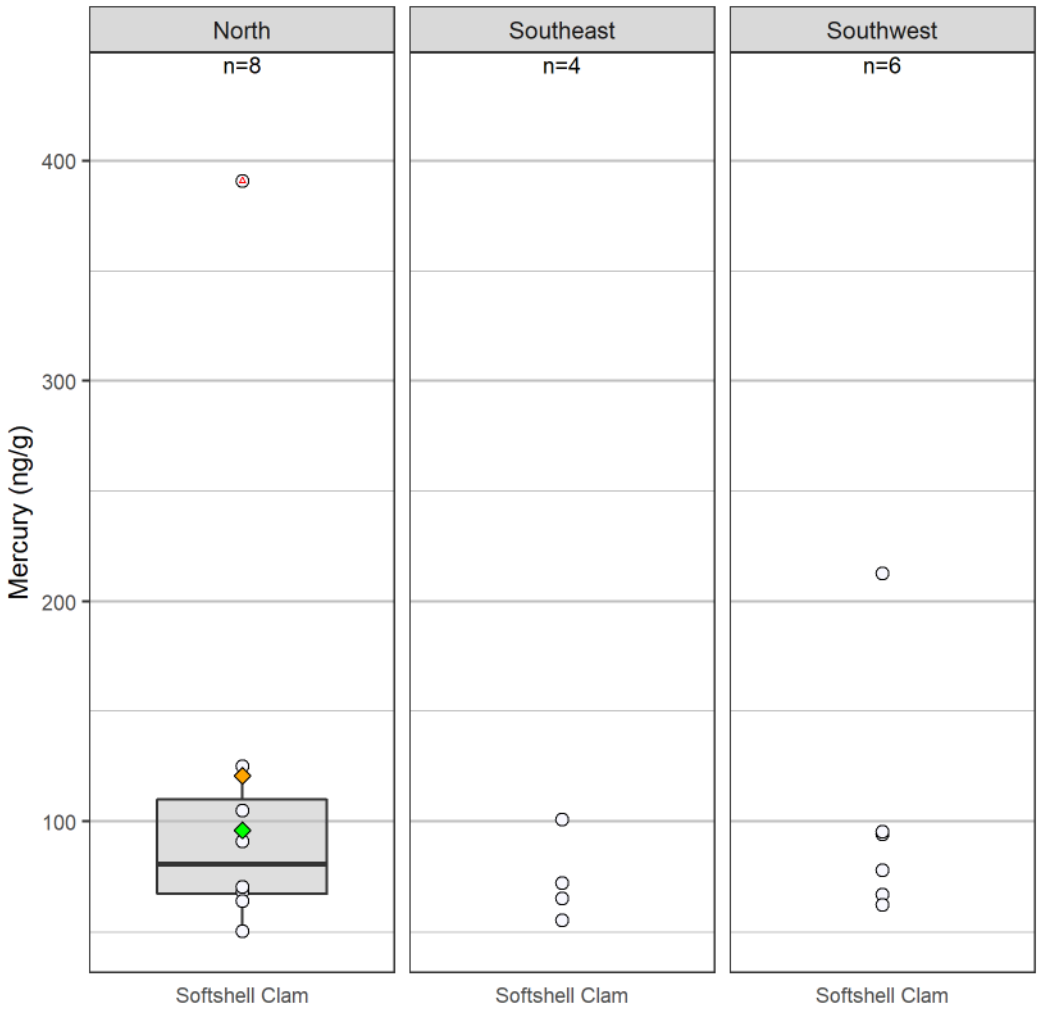
Notes:
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Non-detects plotted at the quantitation limit.
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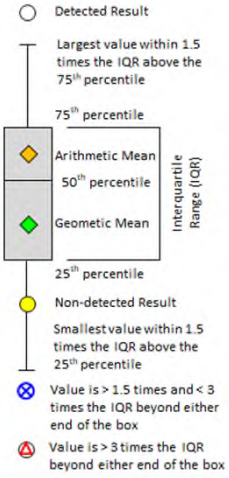
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REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - LEAD

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-21





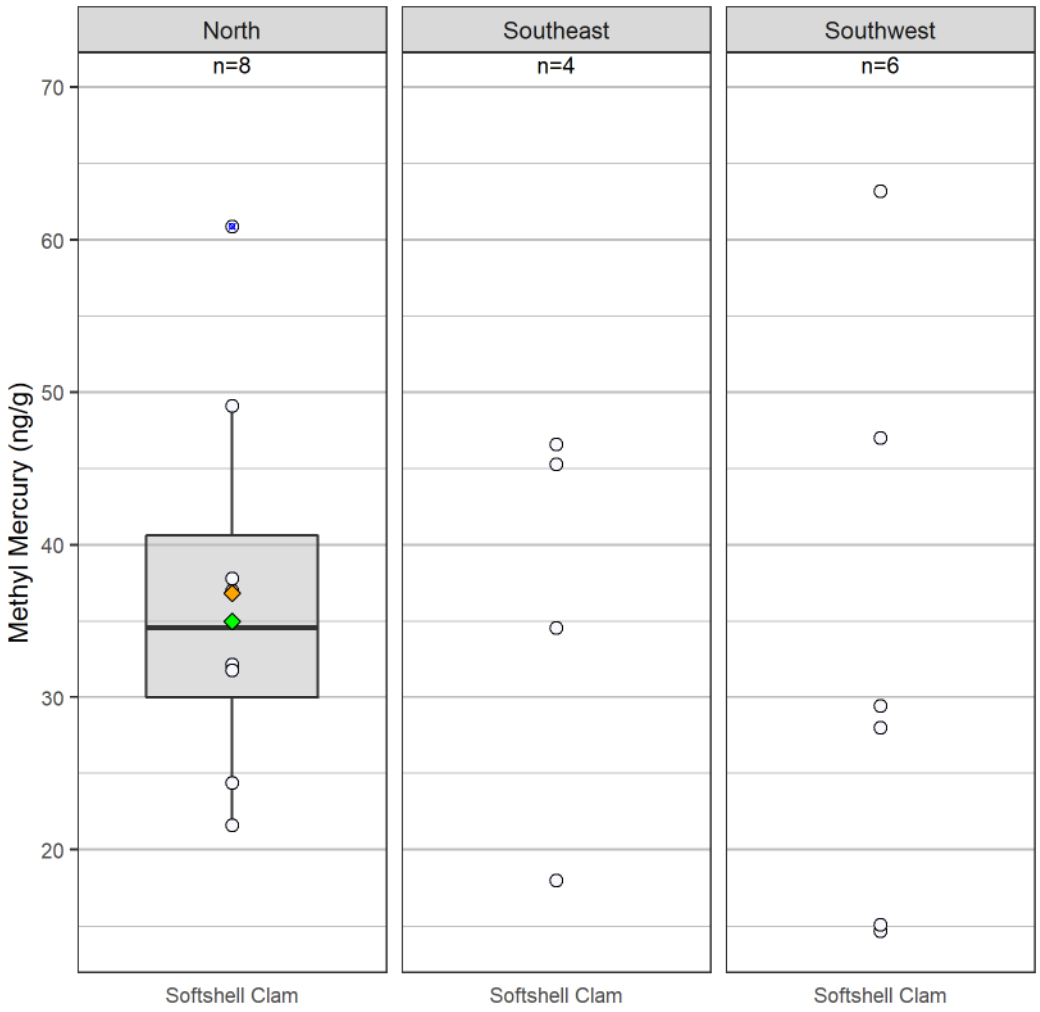
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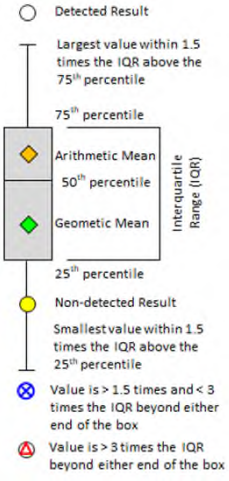
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REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - MERCURY

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-22





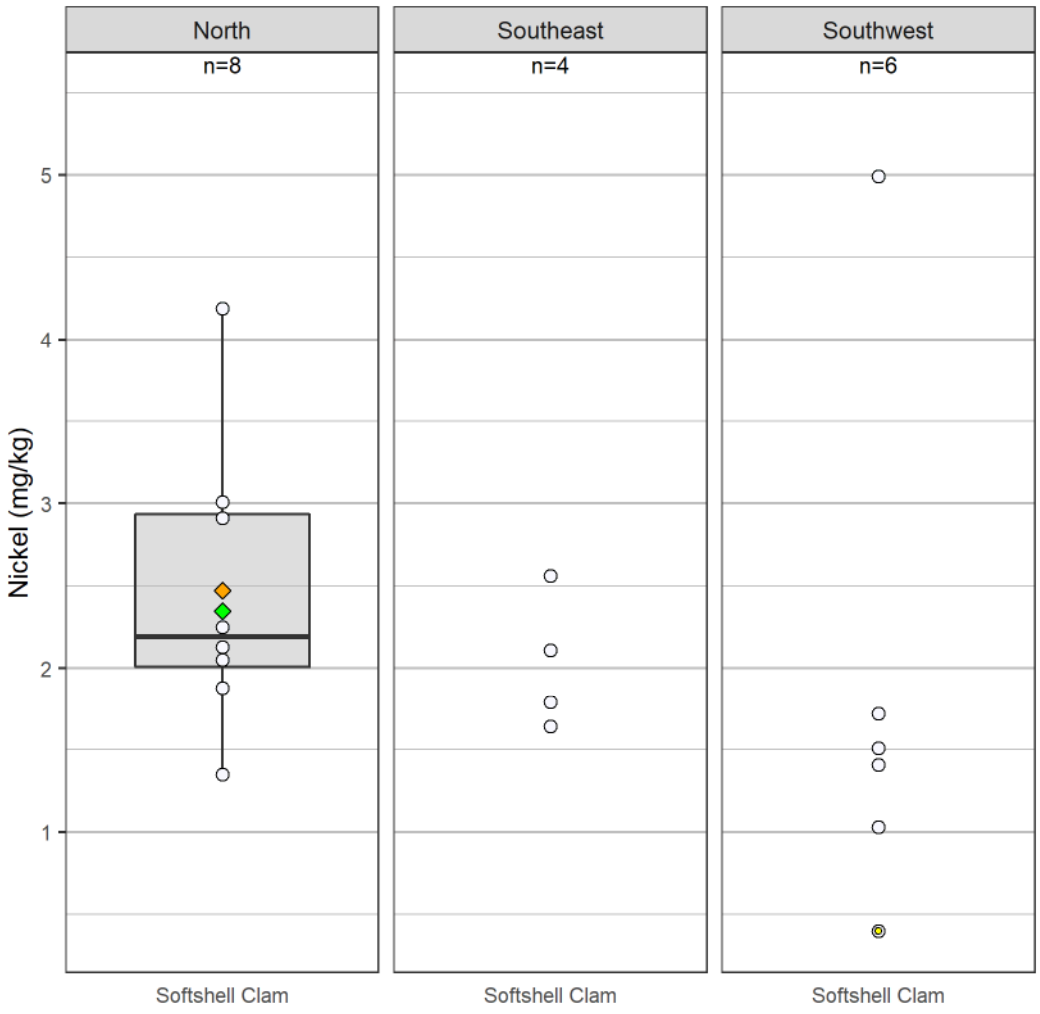
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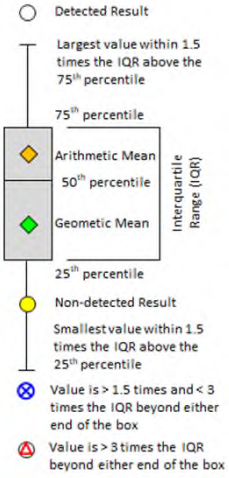
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WHOLE BODY SOFTSHELL CLAM RESULTS - METHYL MERCURY

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-23





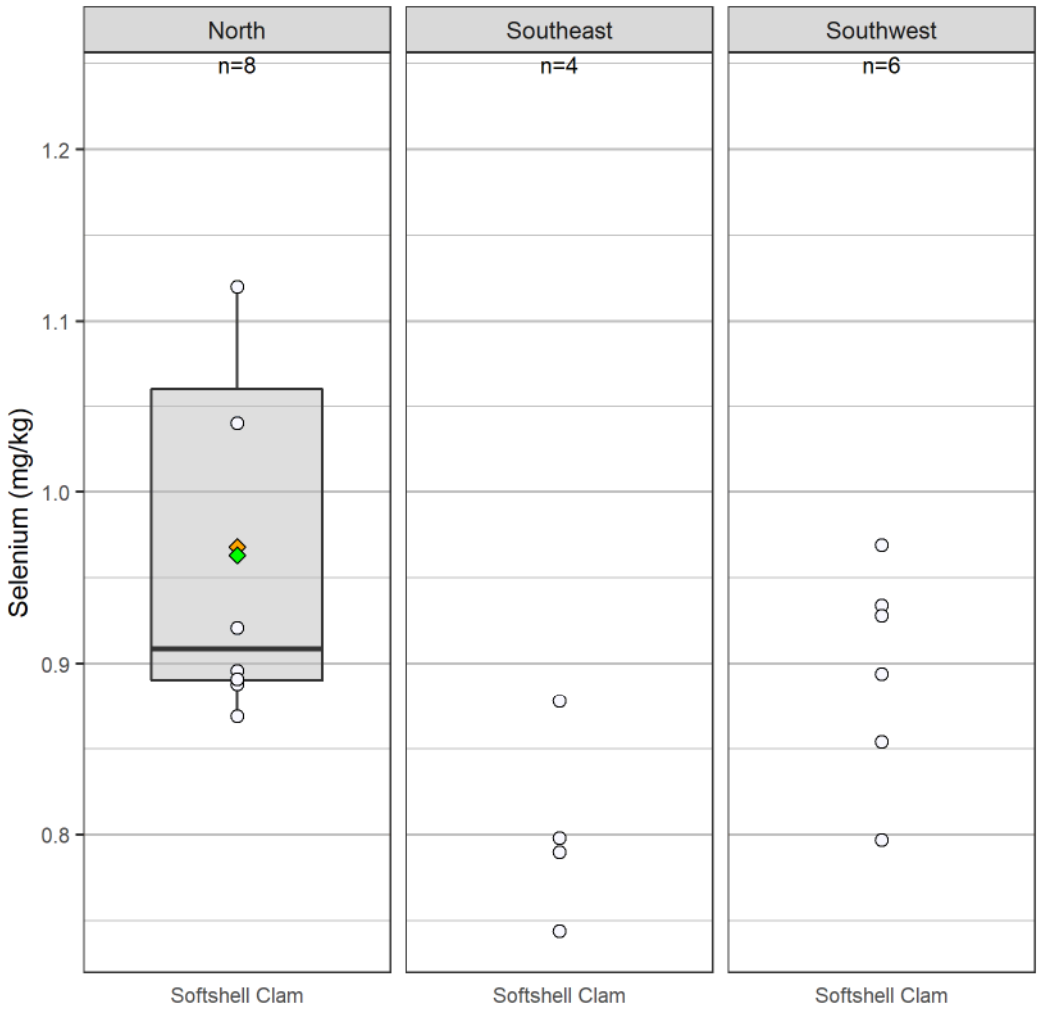
Notes:
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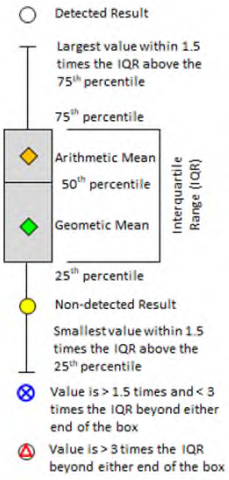
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WHOLE BODY SOFTSHELL CLAM RESULTS - NICKEL

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-24





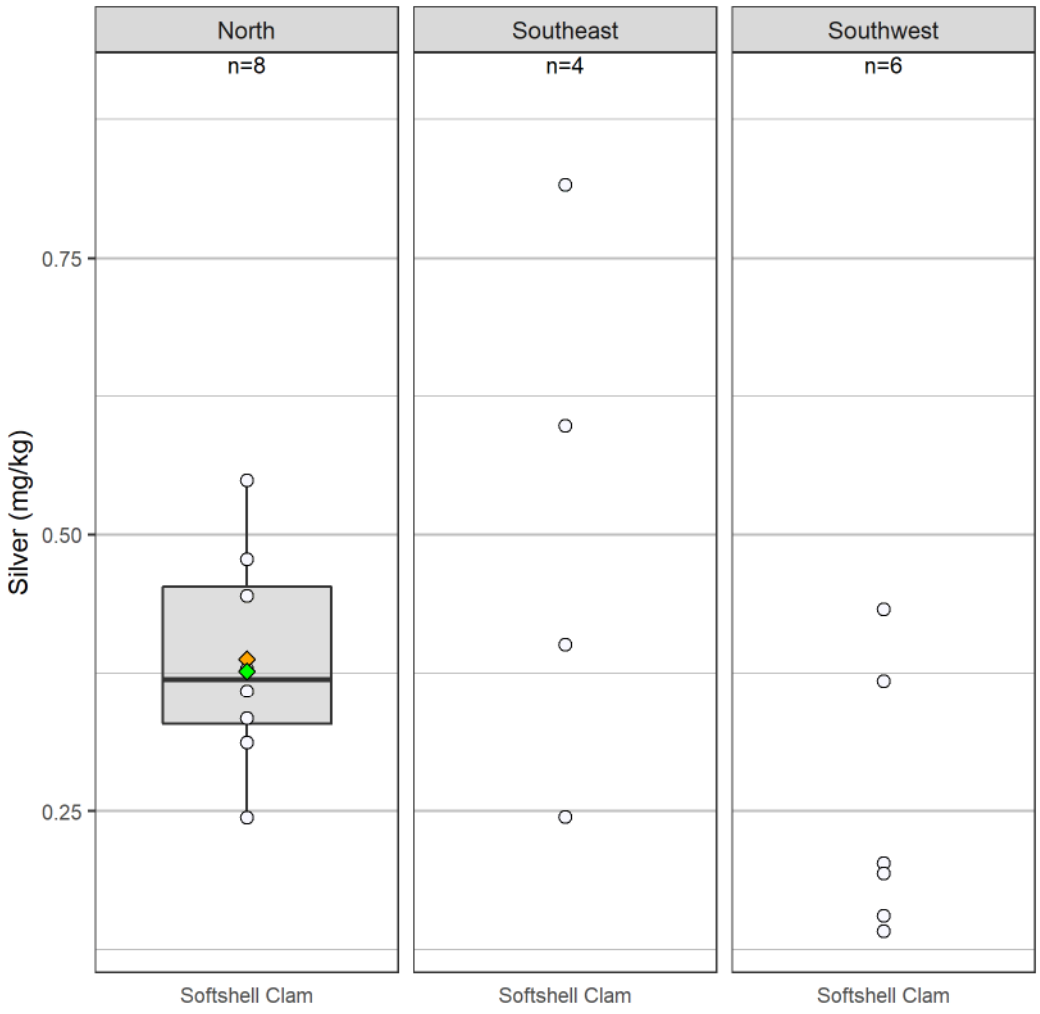
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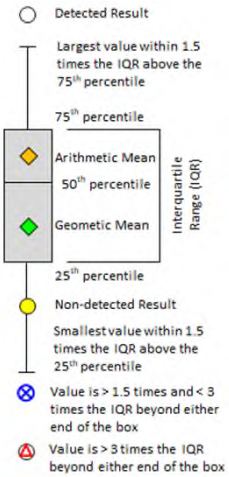
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WHOLE BODY SOFTSHELL CLAM RESULTS - SELENIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-25





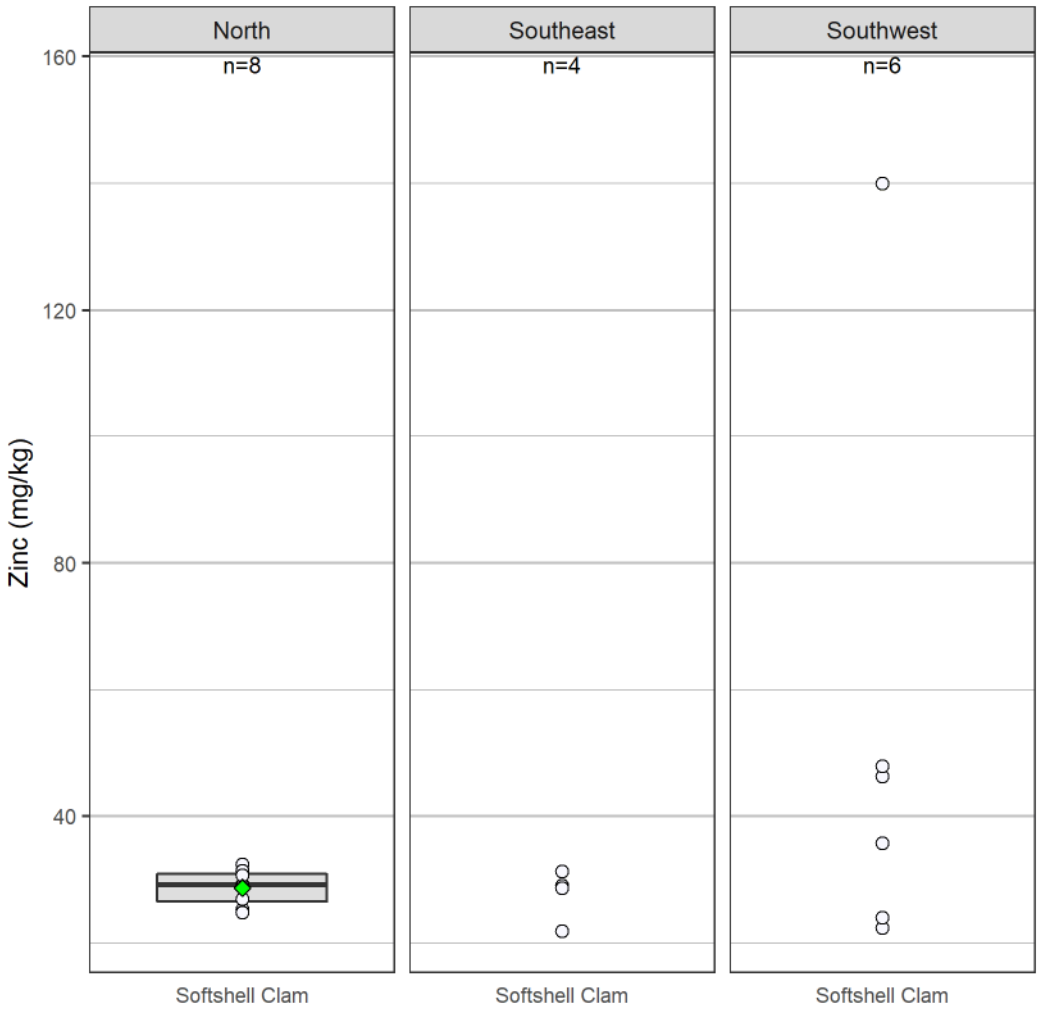
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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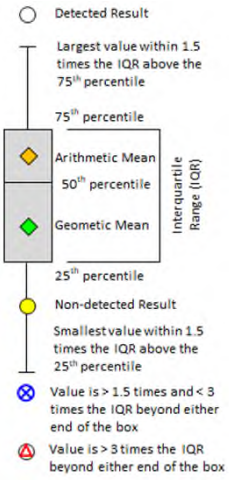
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WHOLE BODY SOFTSHELL CLAM RESULTS - SILVER

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-26





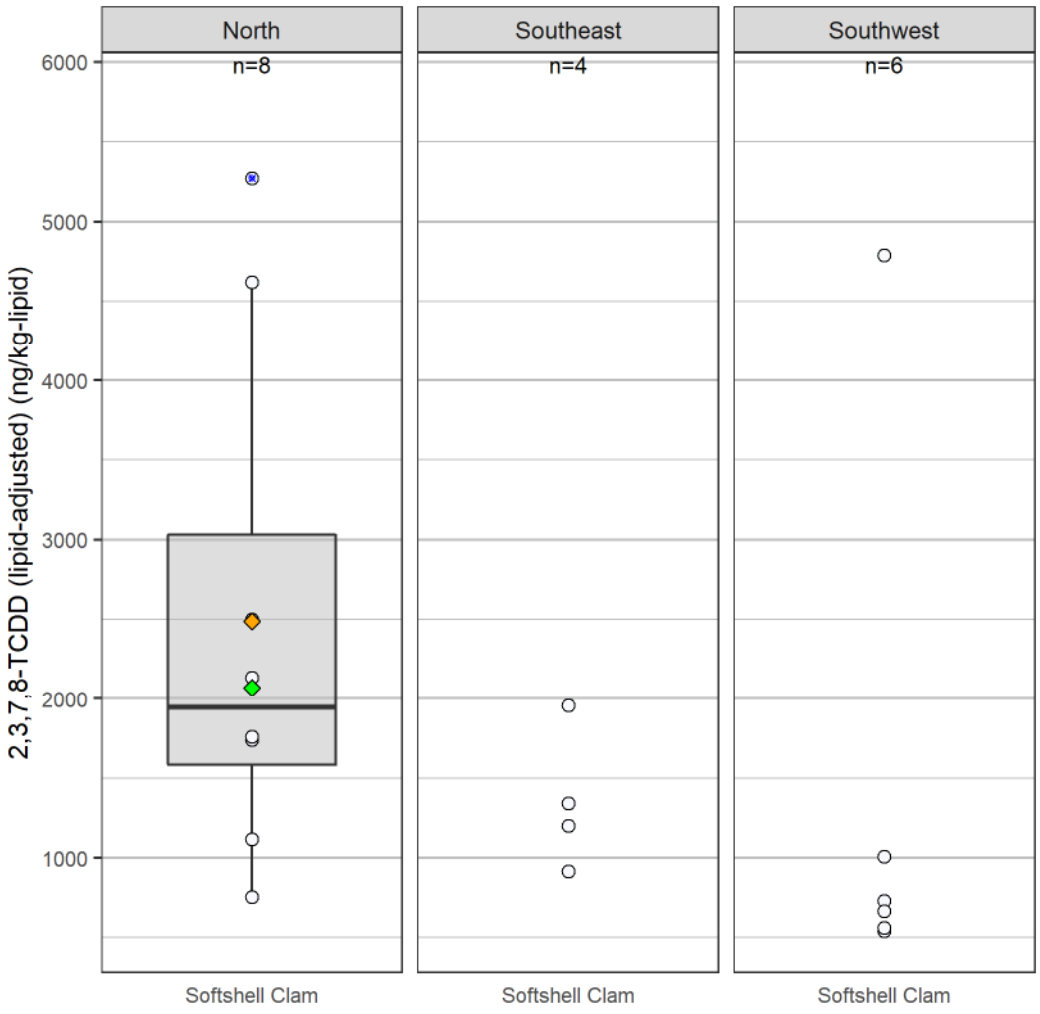
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
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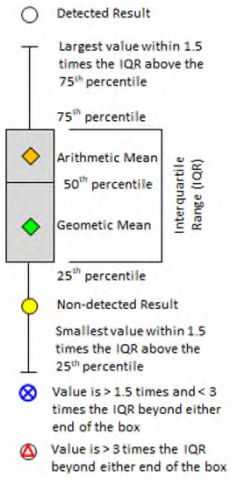
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REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - ZINC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-27





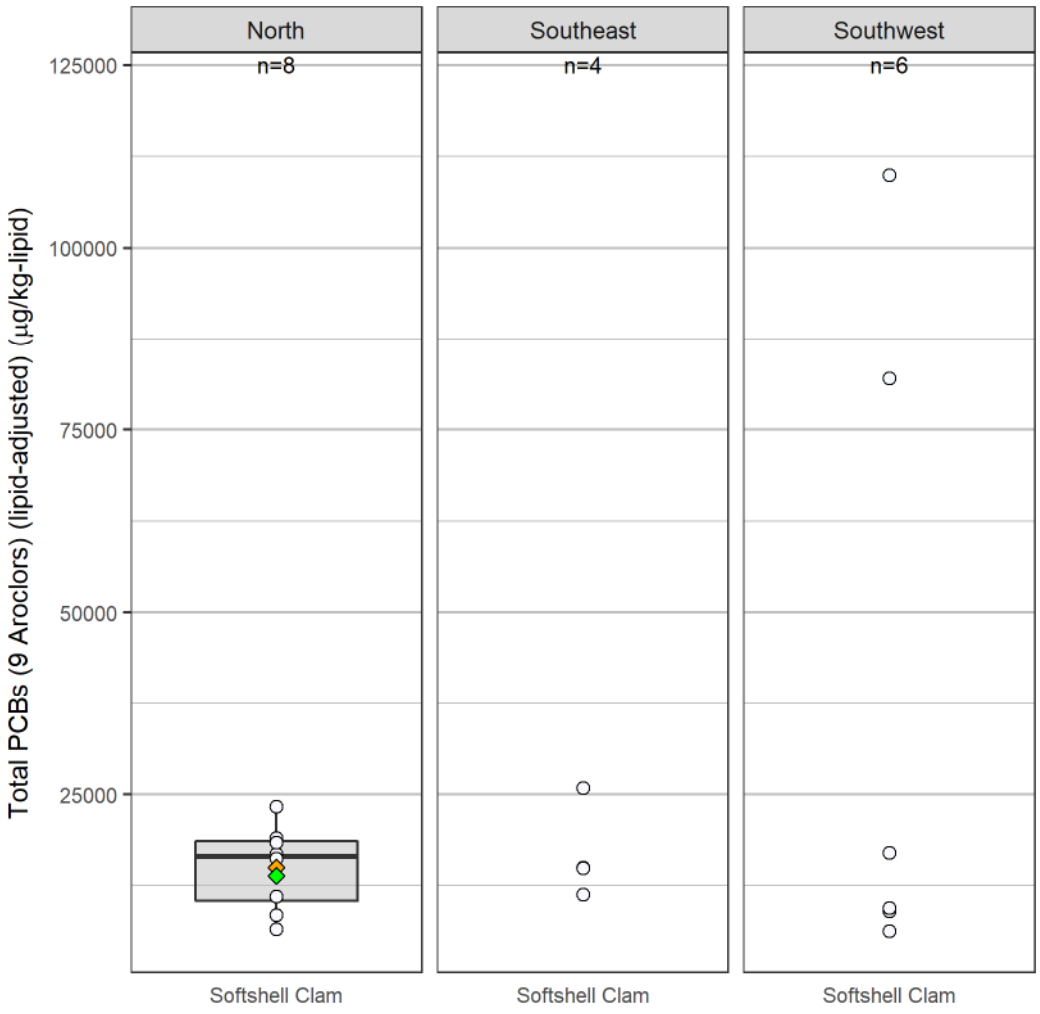
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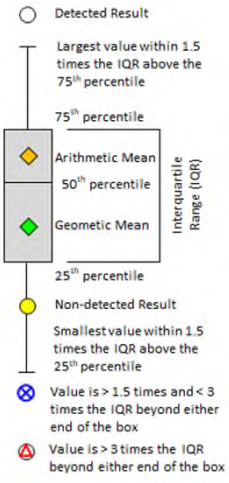
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - 2,3,7,8-TCDD (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-28





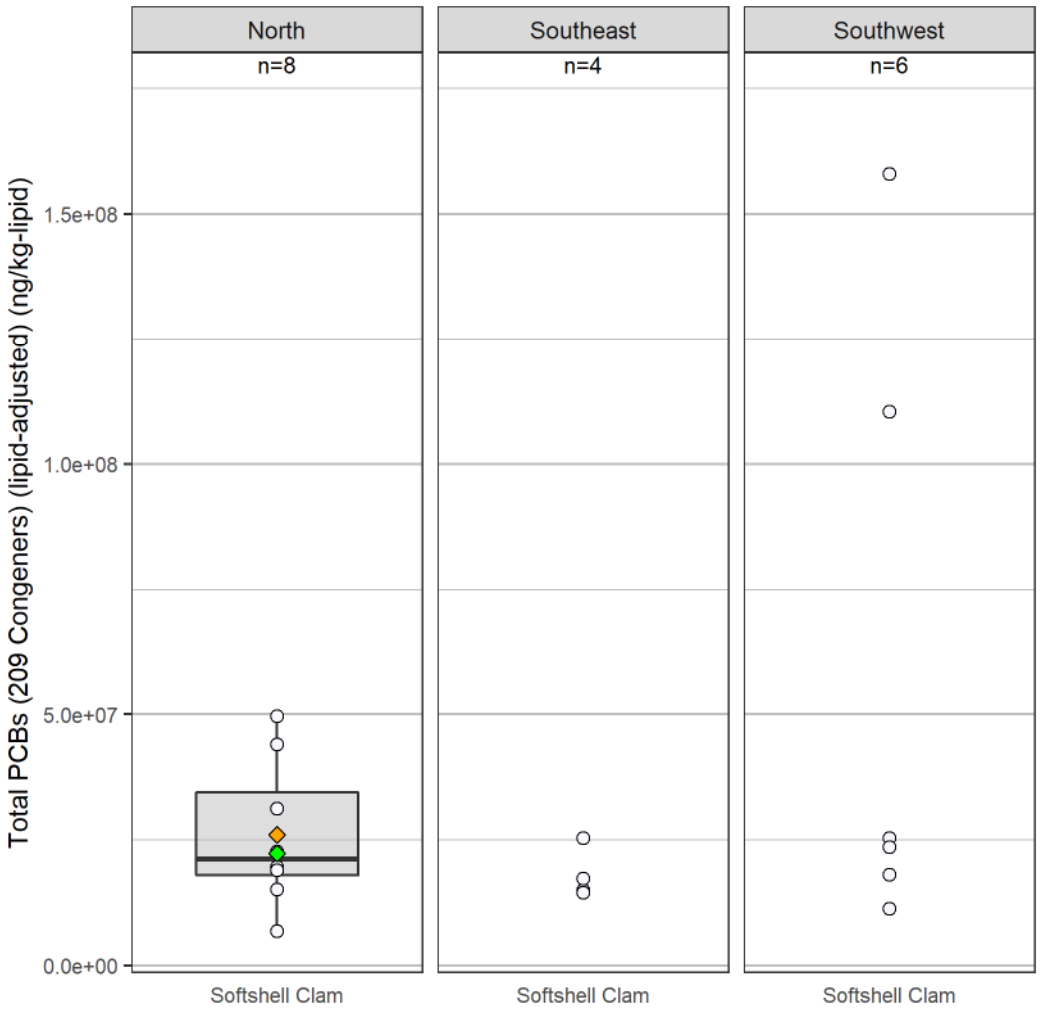
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

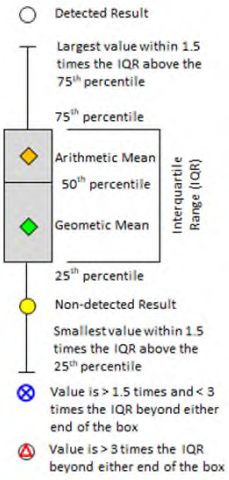
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL PCBS (9 AROCLORS) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-29





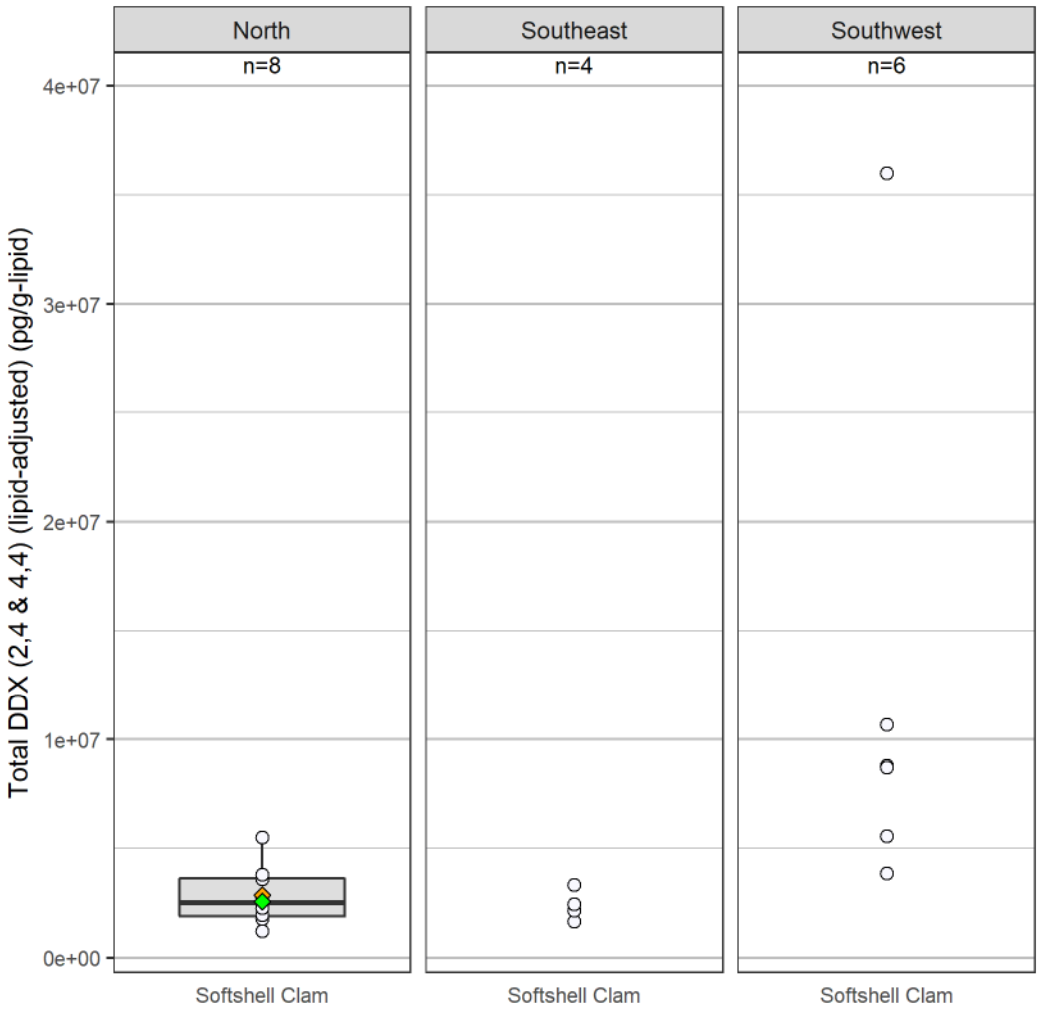
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

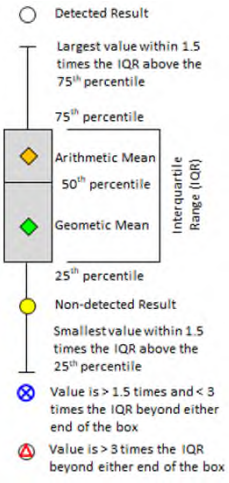
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL PCB (209 CONGENERS) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-30





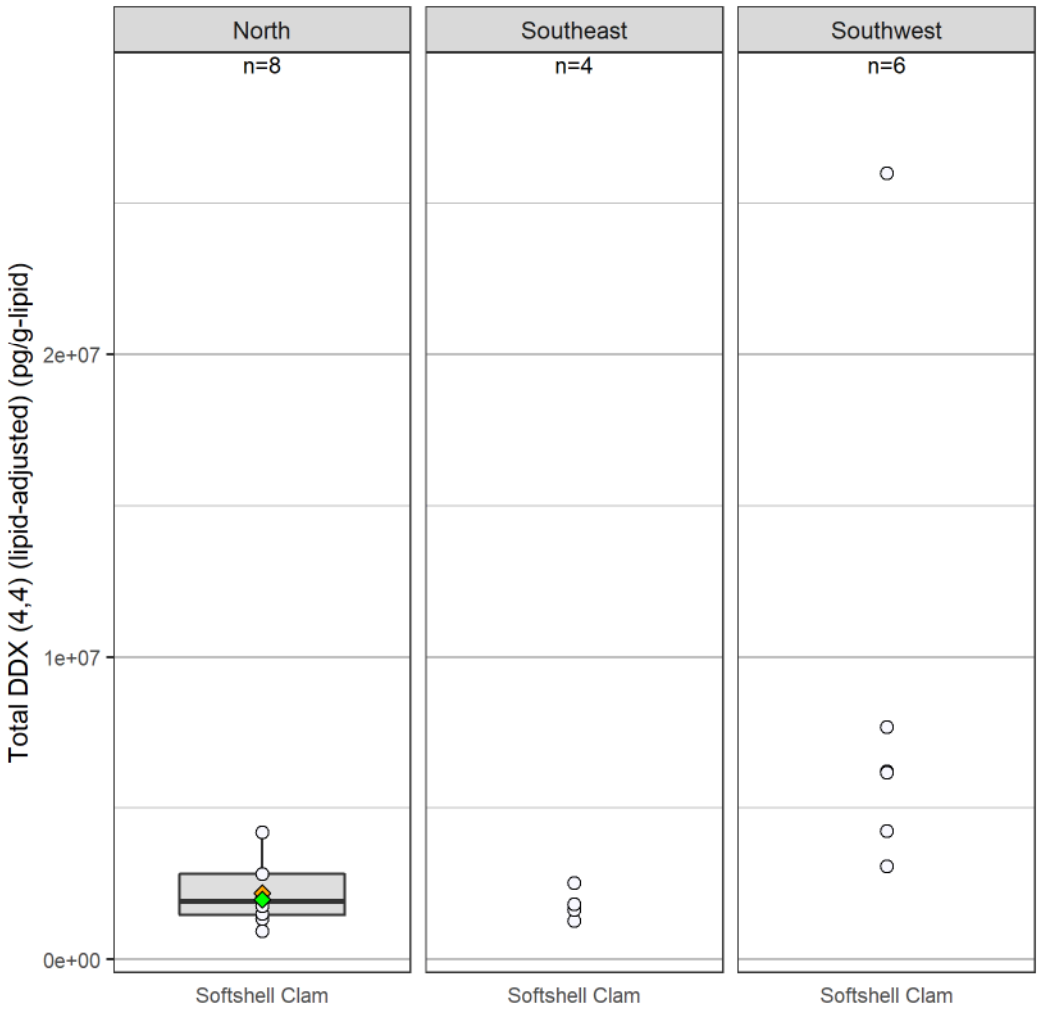
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

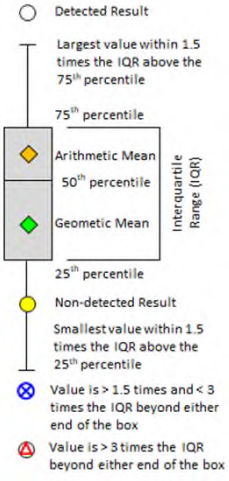
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL DDX (2,4 & 4,4) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-31





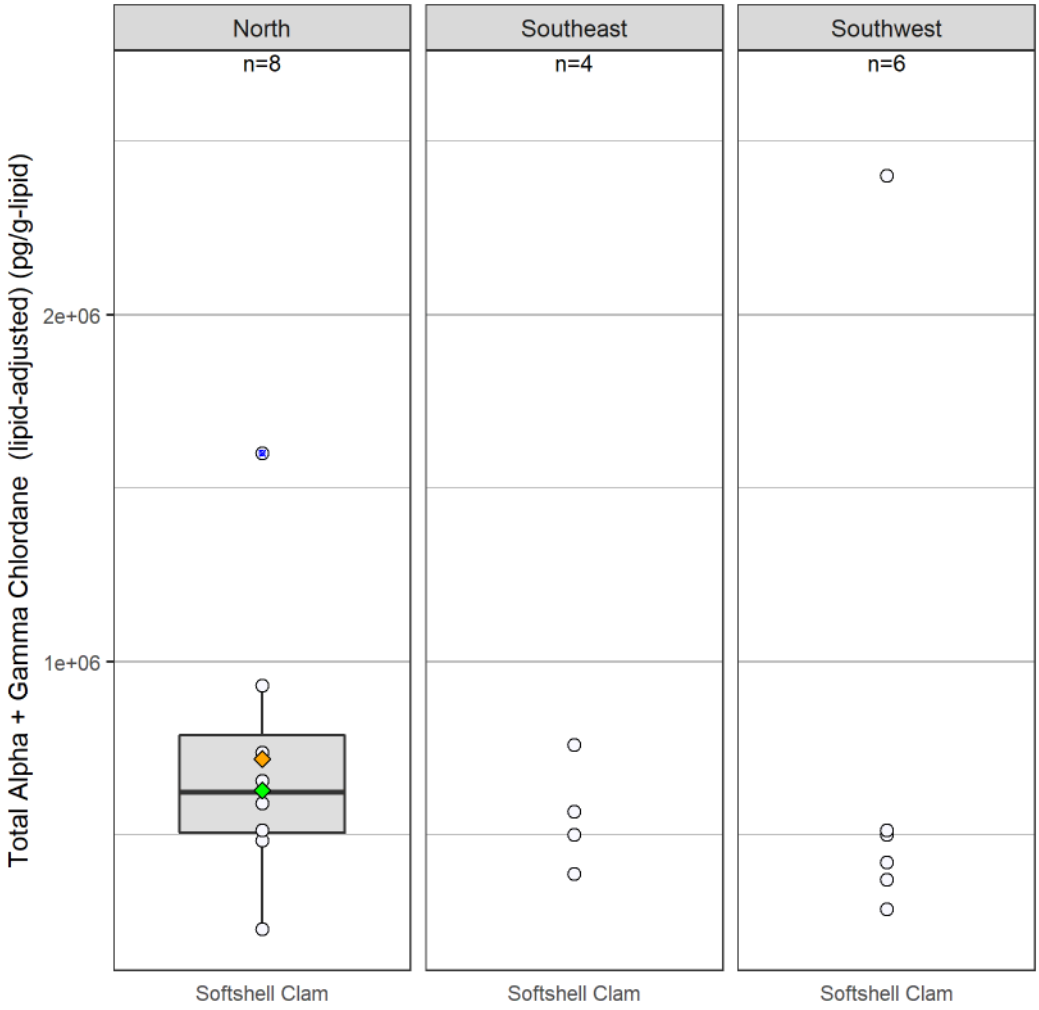
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

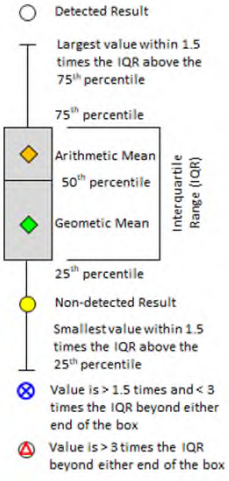
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL DDX (4,4) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-32





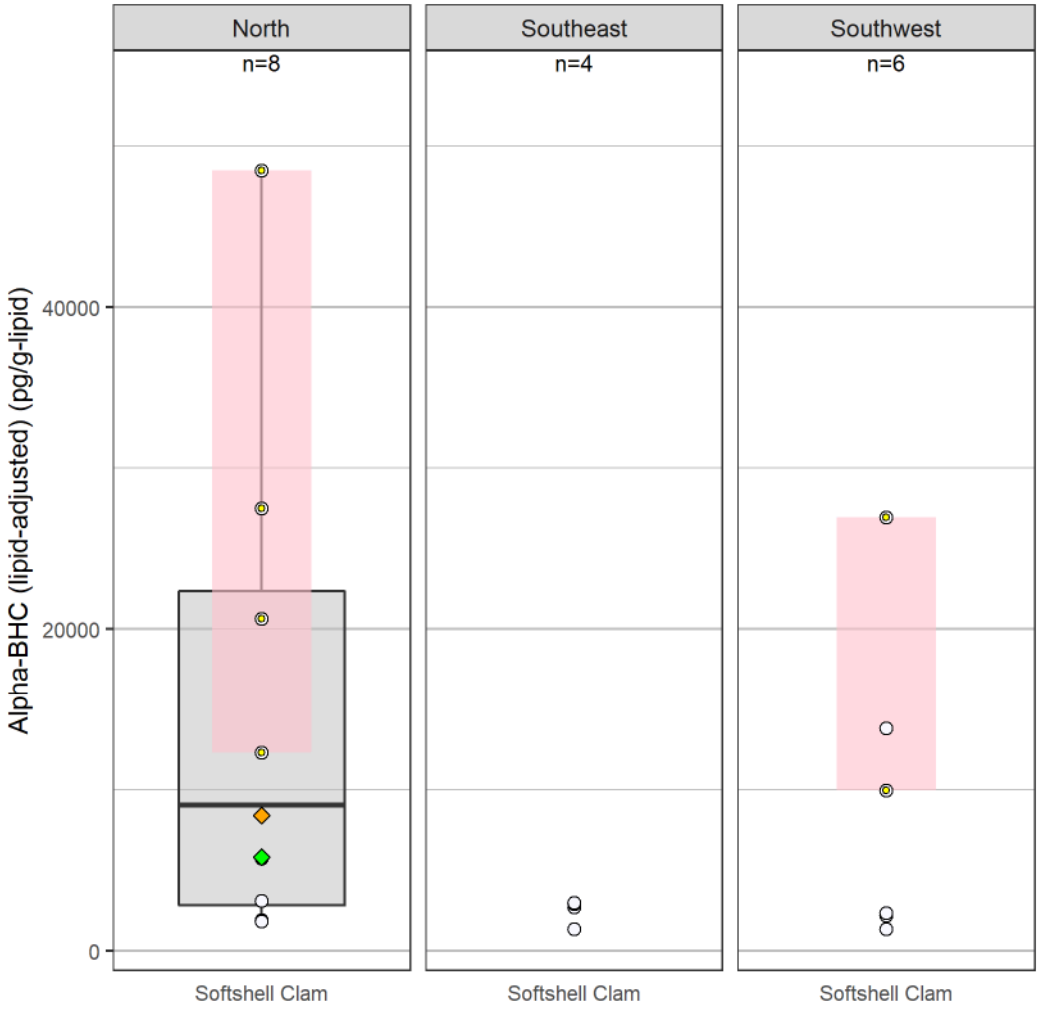
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

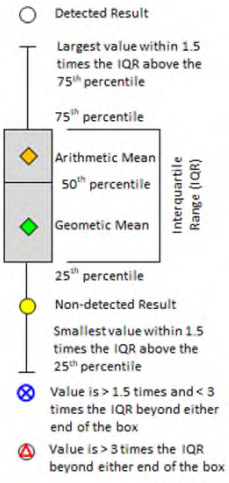
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL ALPHA + GAMMA CHLORDANE (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-33





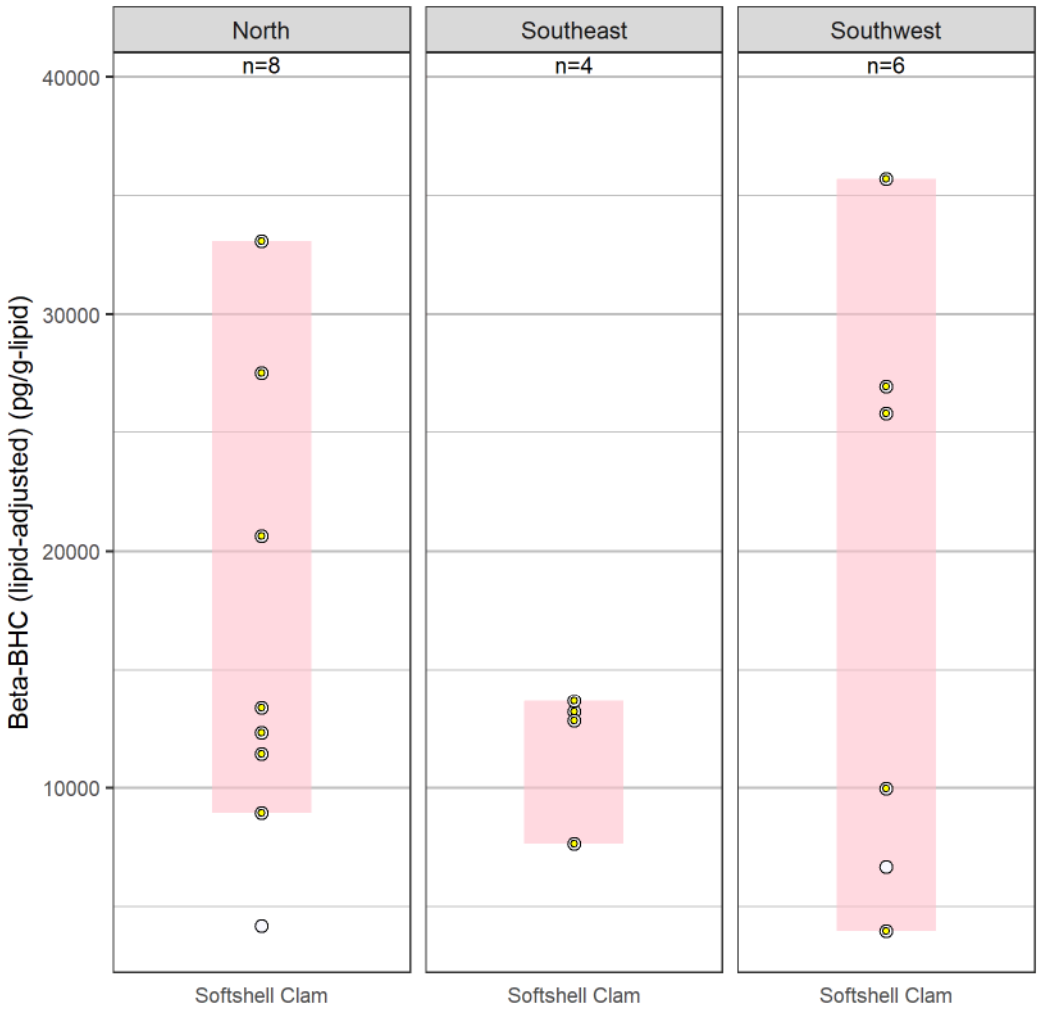
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

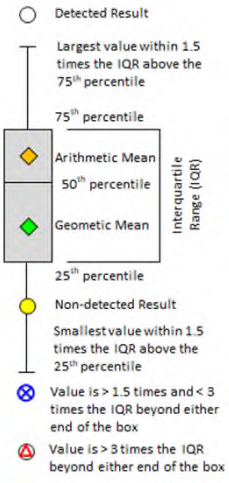
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - ALPHA-BHC (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-34





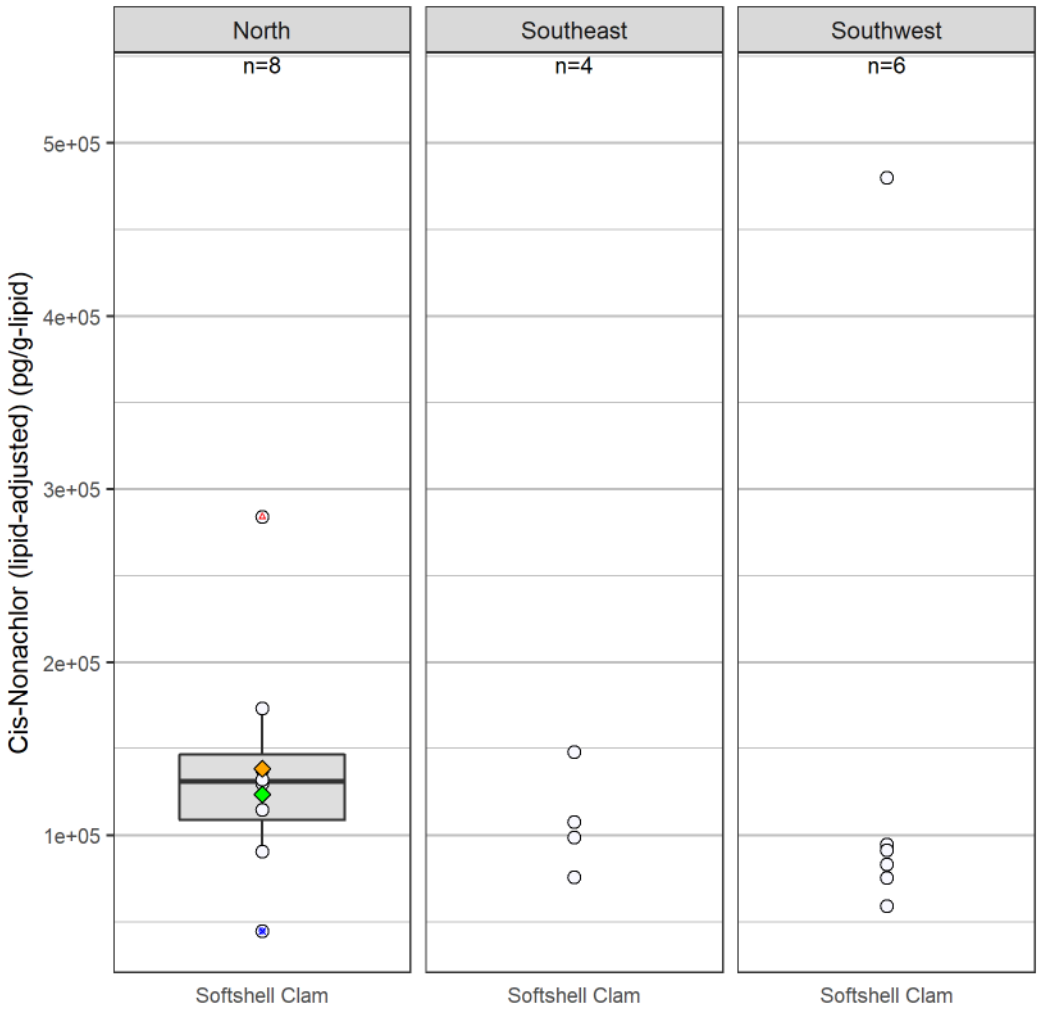
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

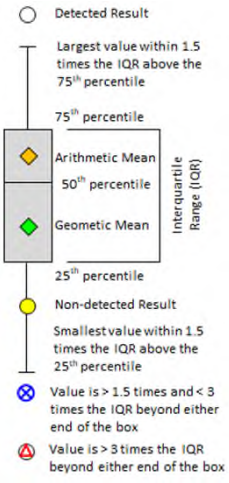
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - BETA-BHC (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-35





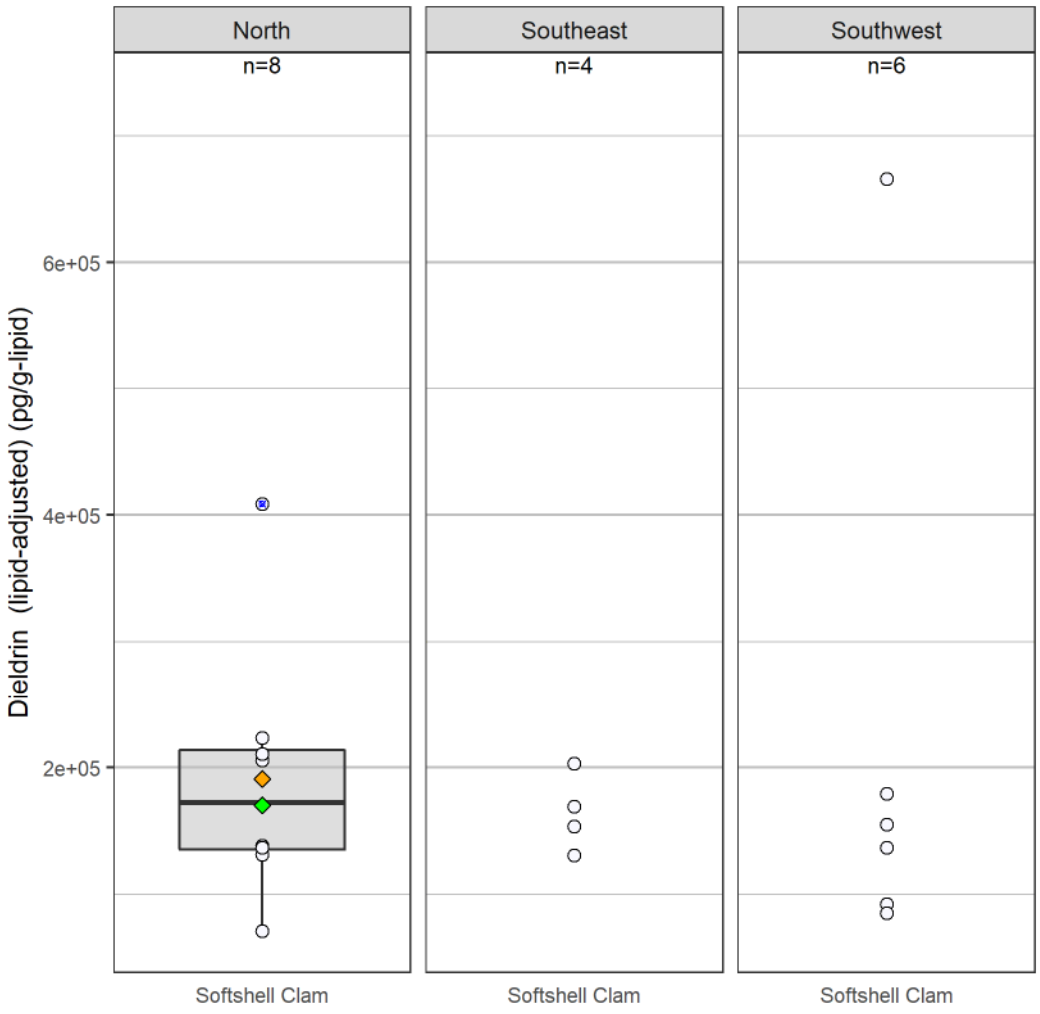
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

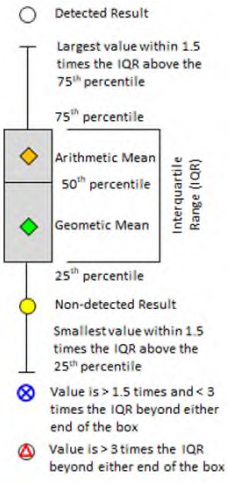
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - CIS-NONACHLOR (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-36





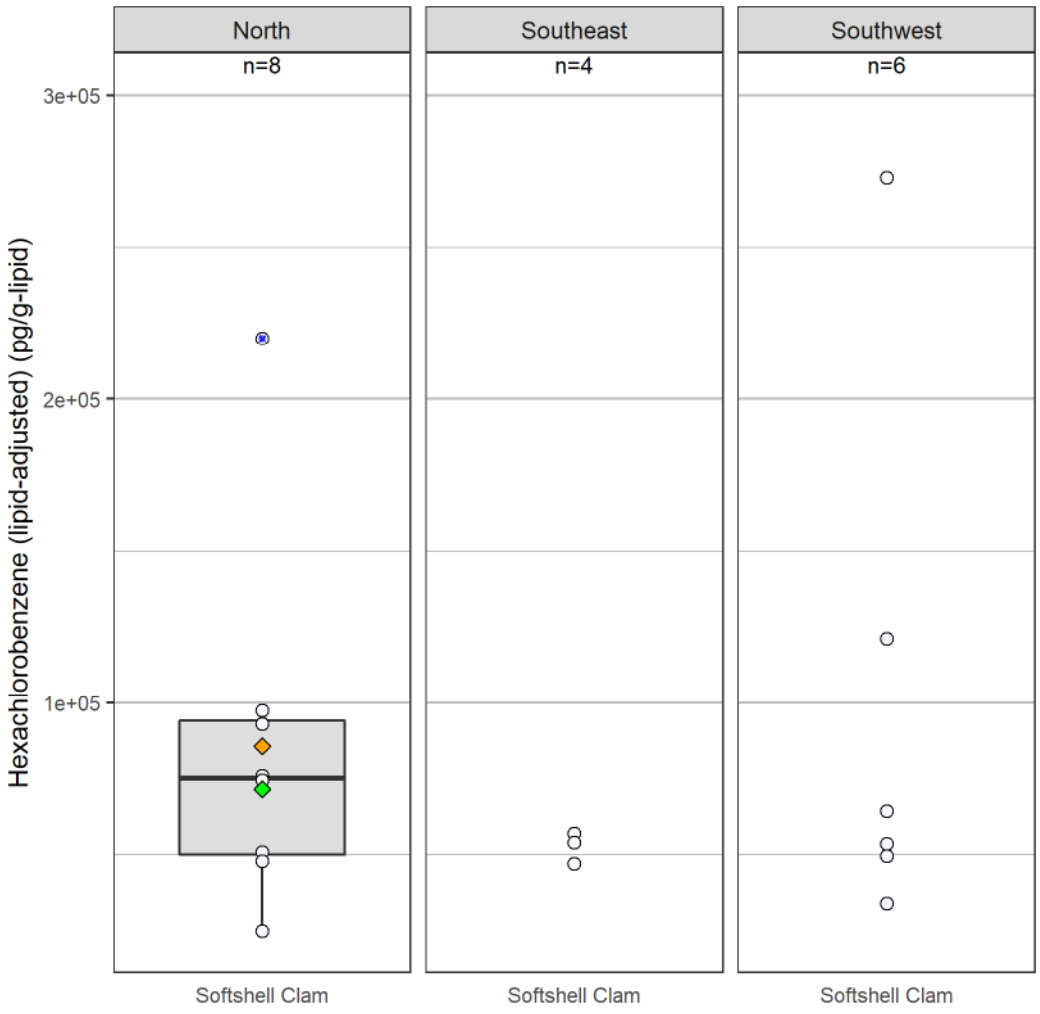
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

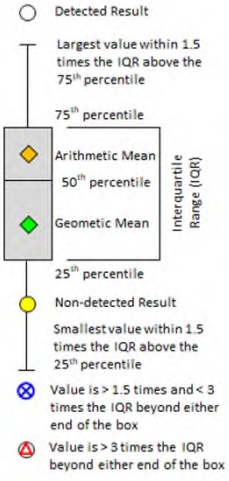
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - DIELDRIN (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-37





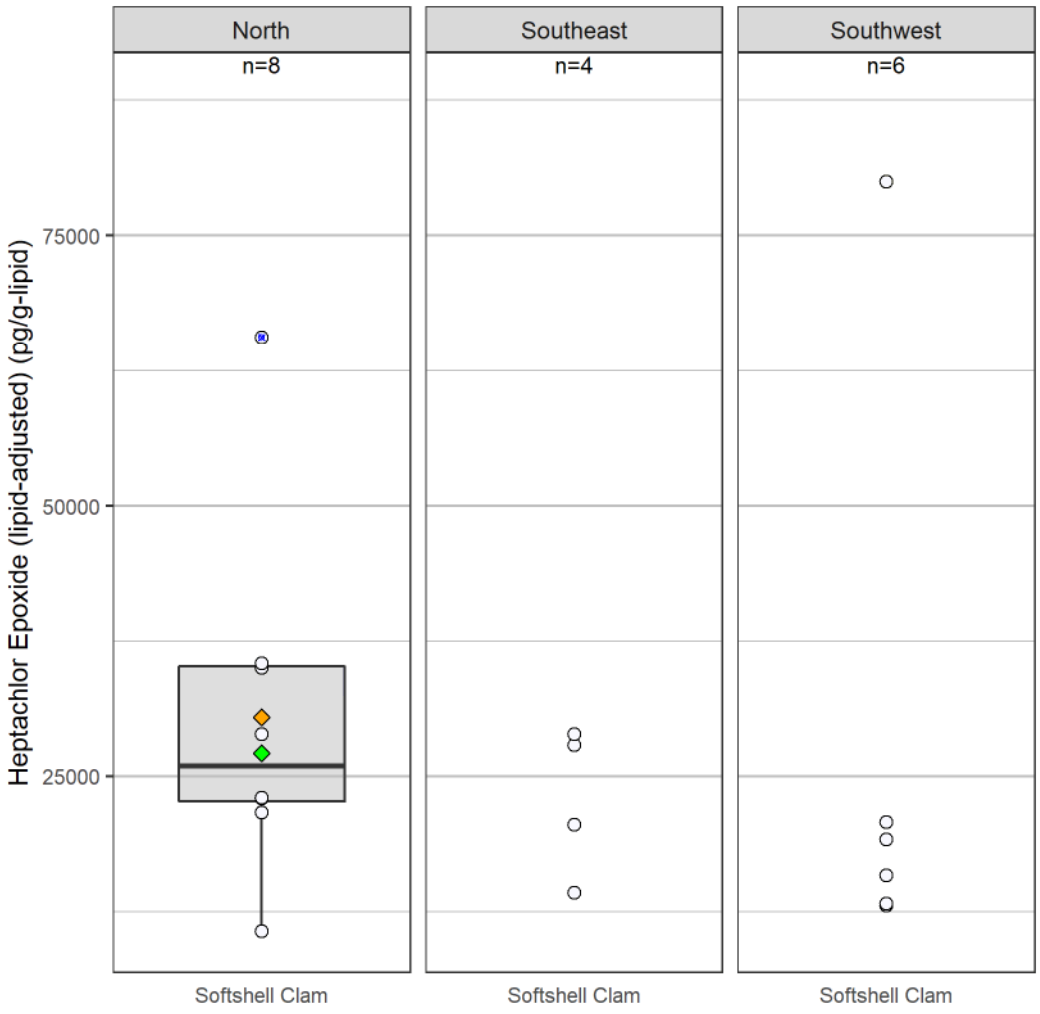
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

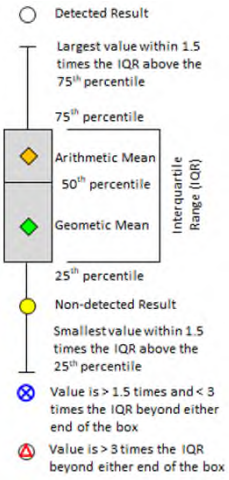
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - HEXACHLOROBENZENE (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-38





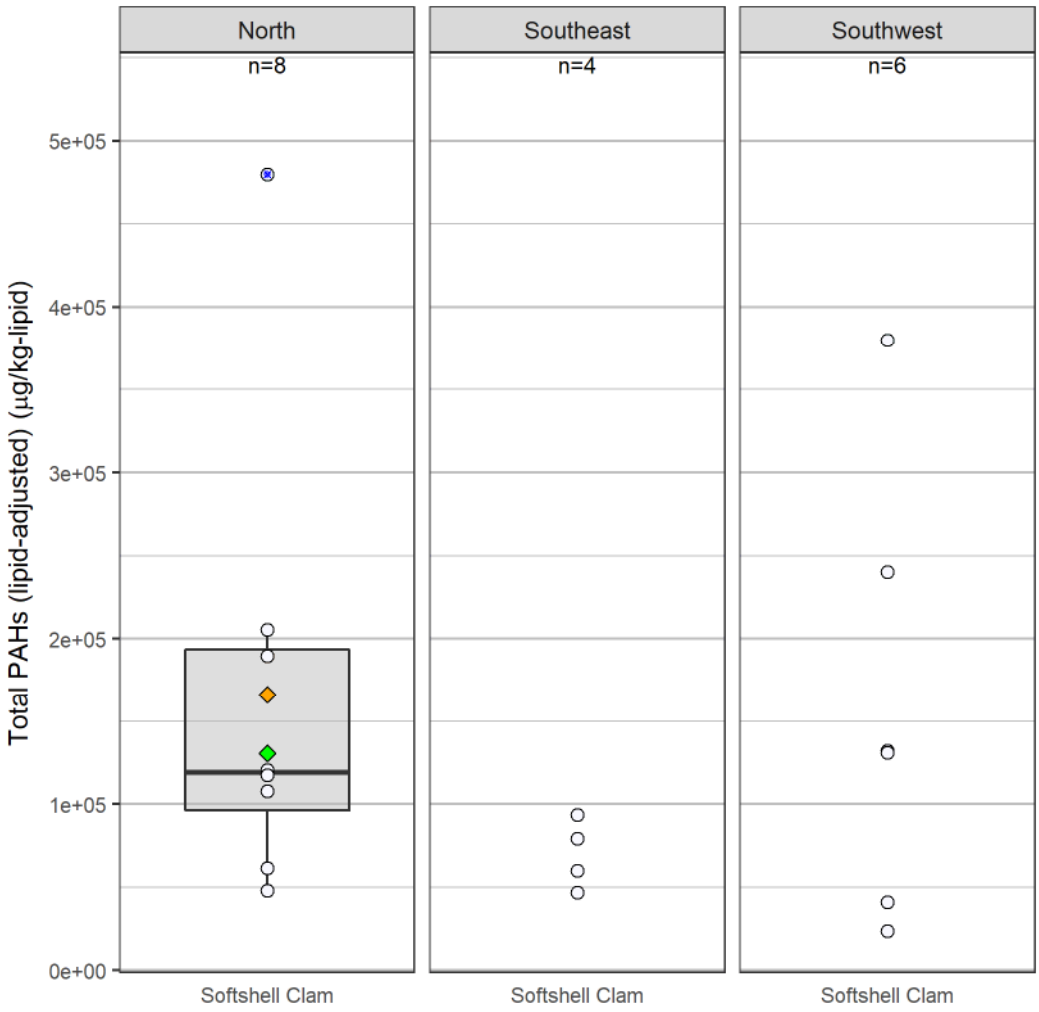
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

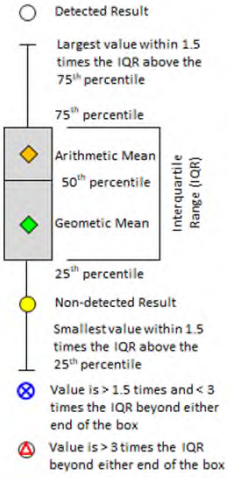
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - HEPTACHLOR EPOXIDE (LIPID-ADJUSTED)

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-39





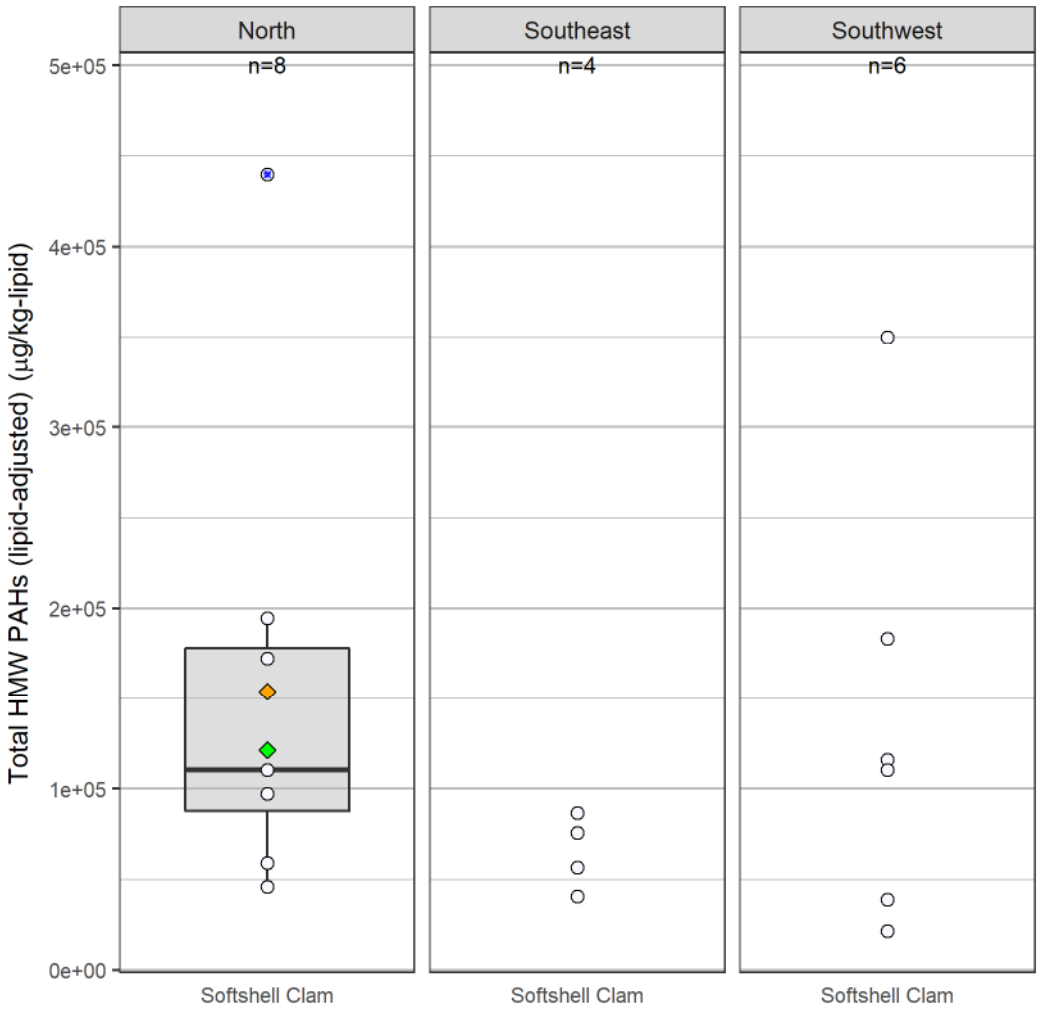
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

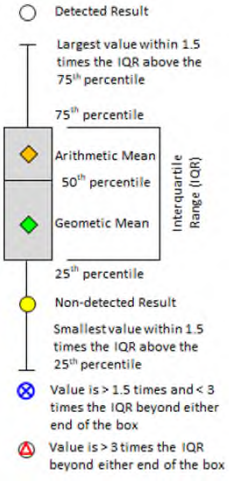
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-40





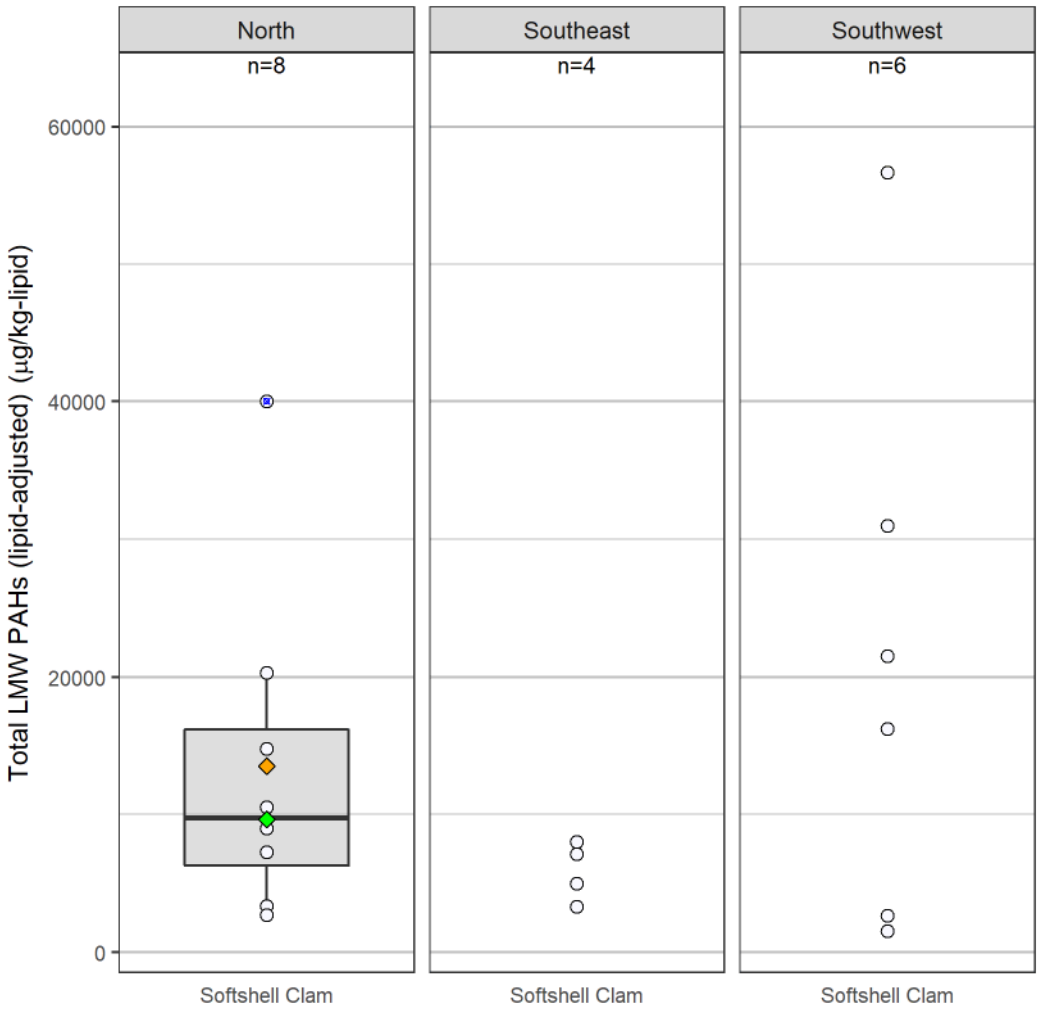
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

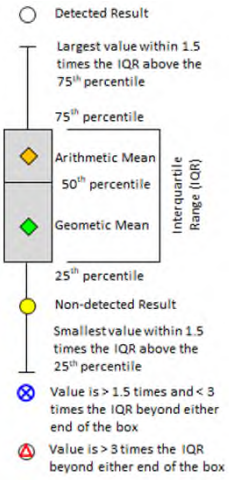
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL HMW PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-41





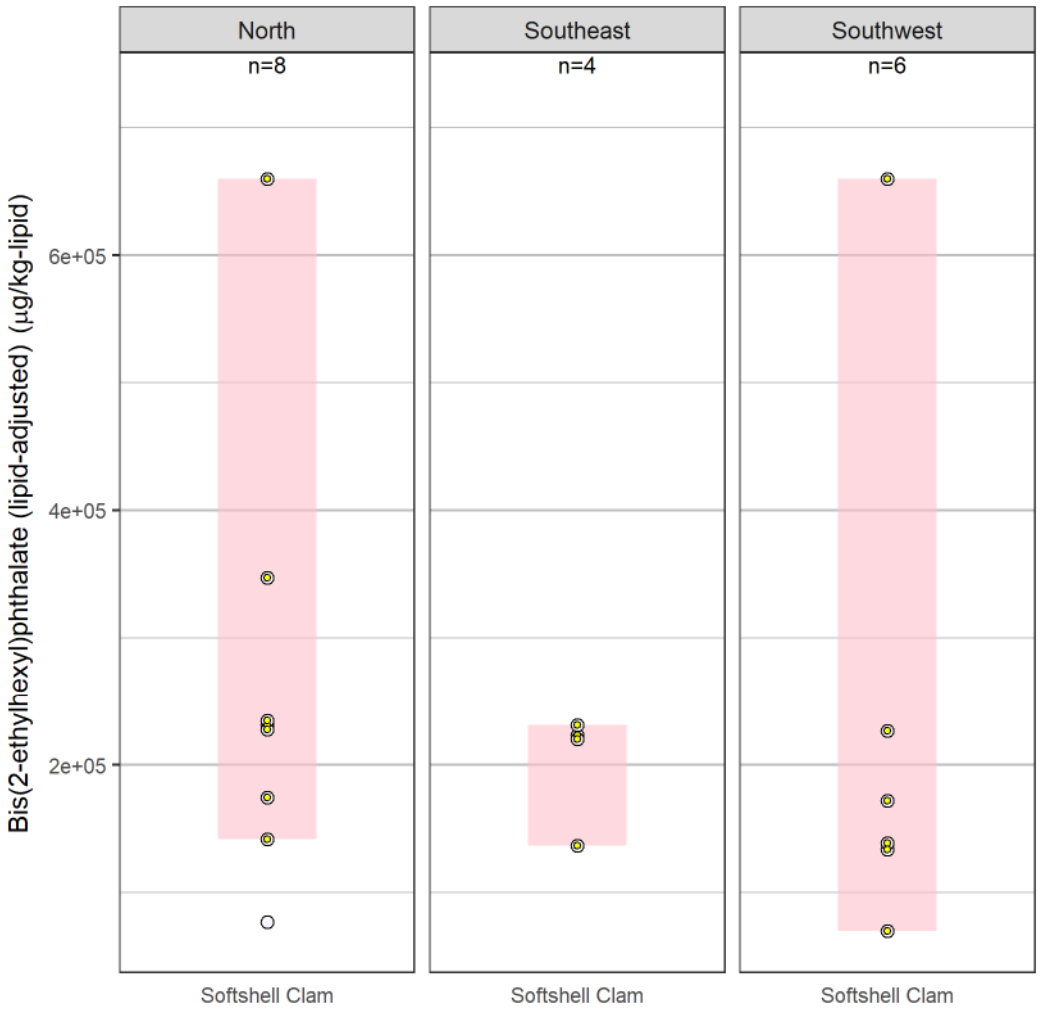
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

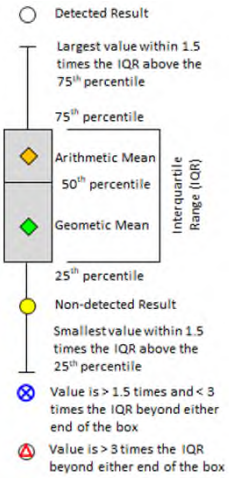
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY SOFTSHELL CLAM RESULTS - TOTAL LMW PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-42





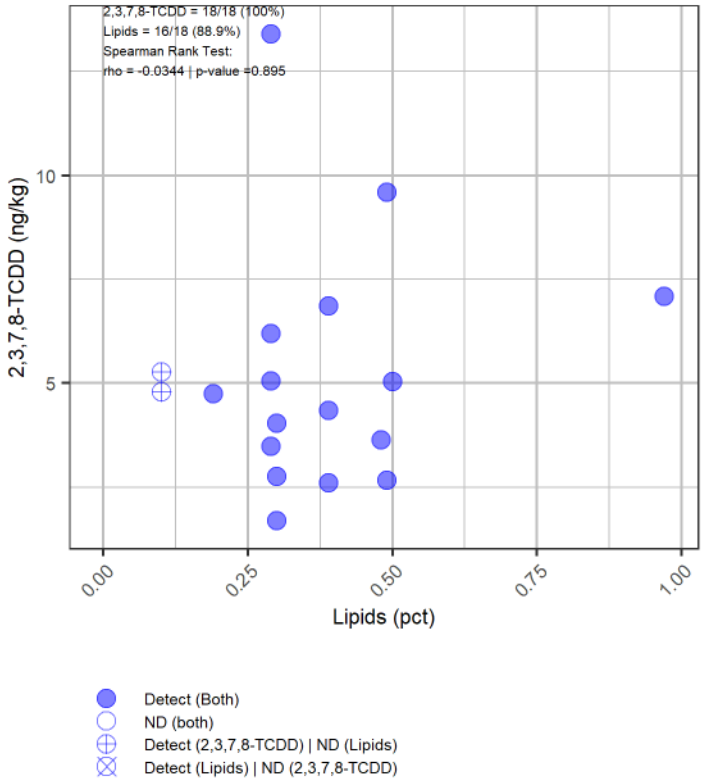
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

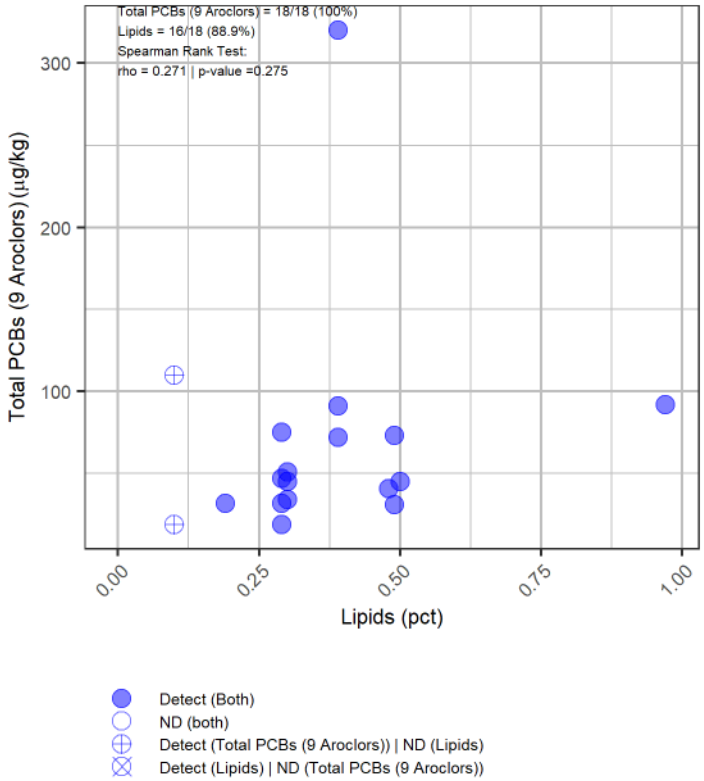
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

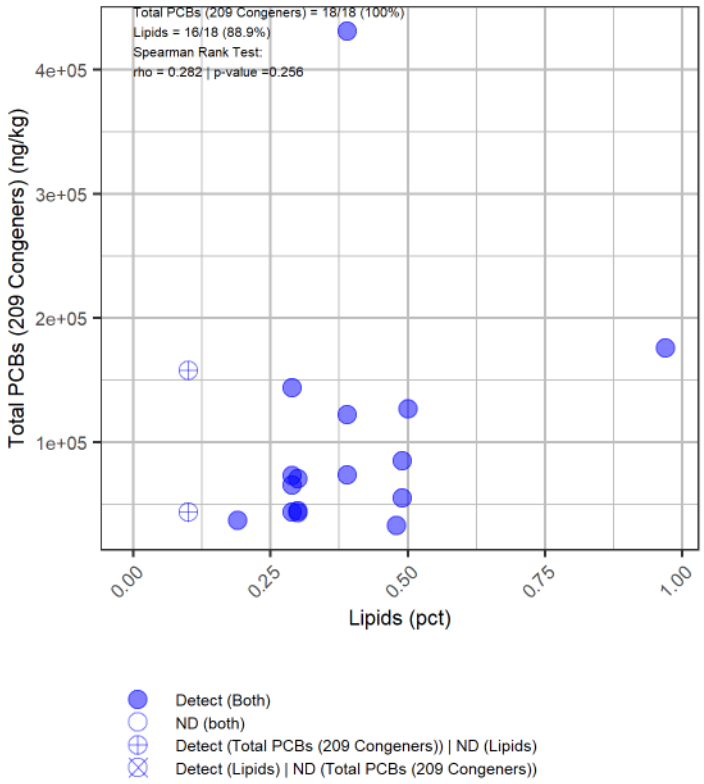
WHOLE BODY SOFTSHELL CLAM RESULTS - BIS(2-ETHYLHEXYL)PHTHALATE (LIPID-ADJUSTED)

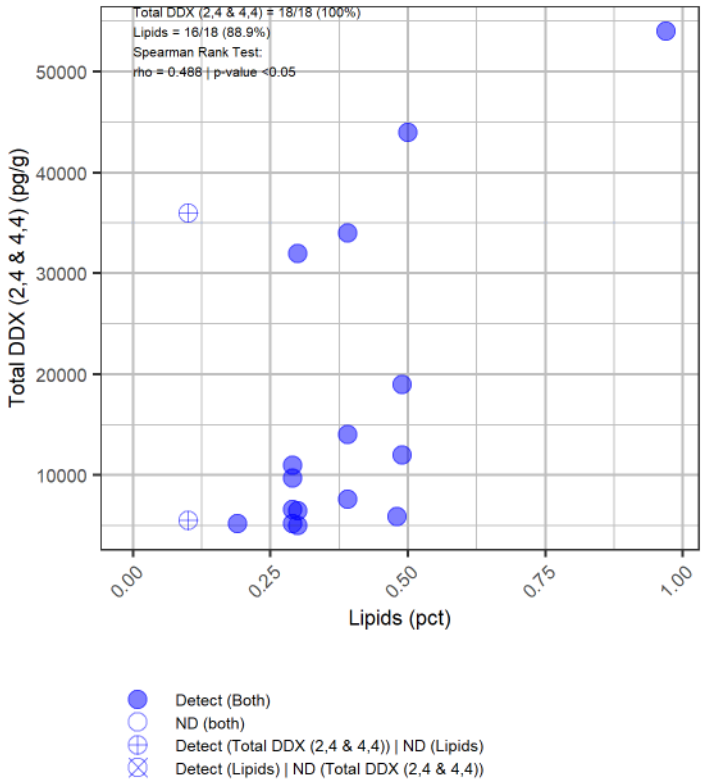
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-43









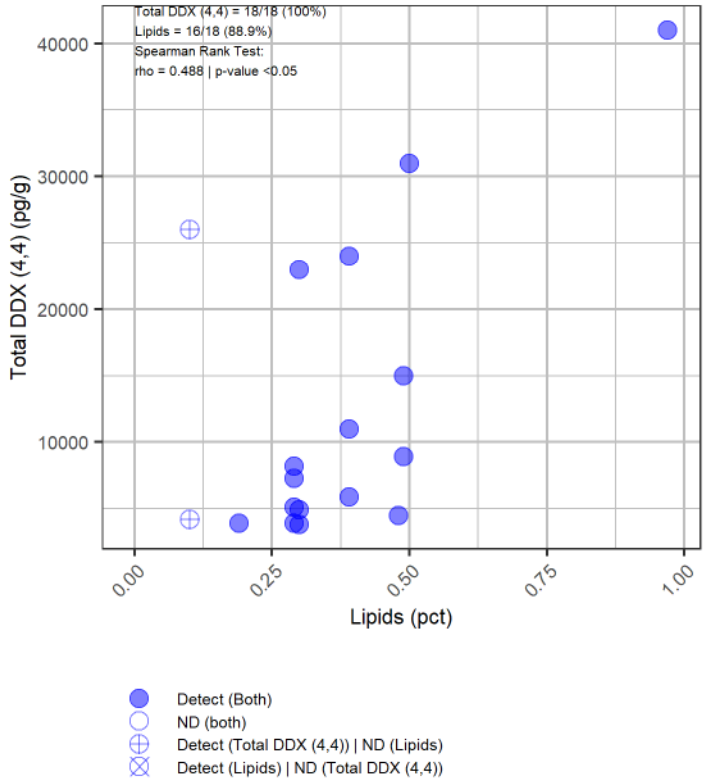
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

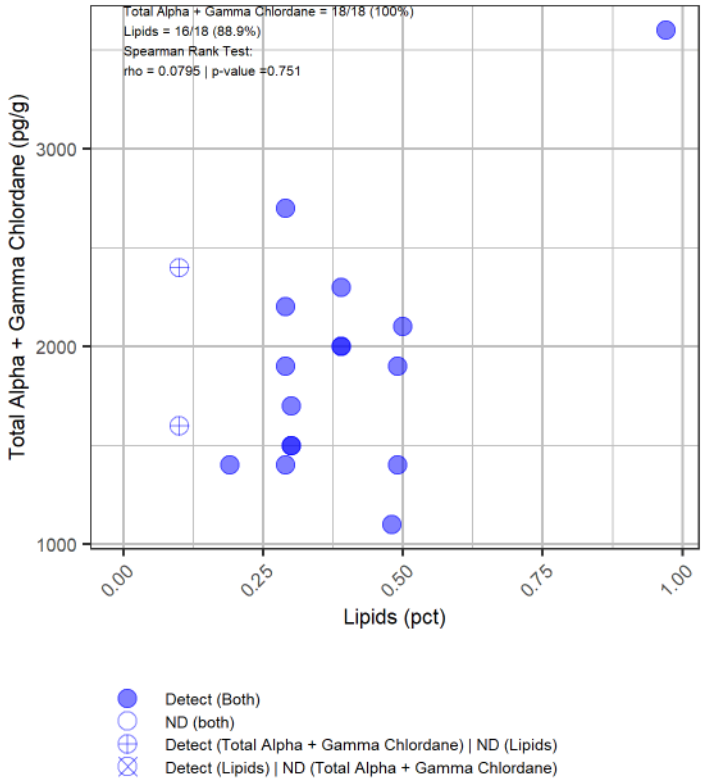
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

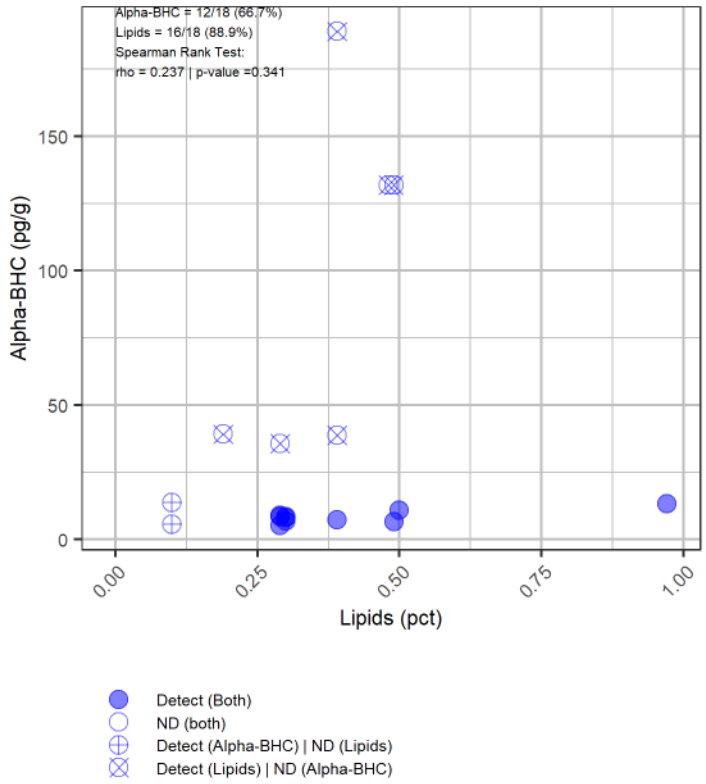
LIPID CORRELATION - SOFTSHELL CLAM

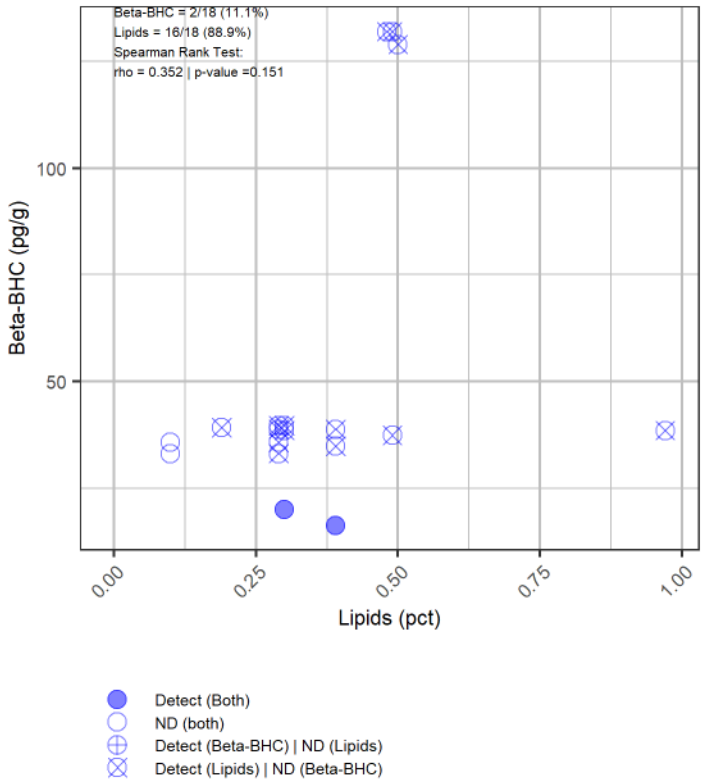
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-44









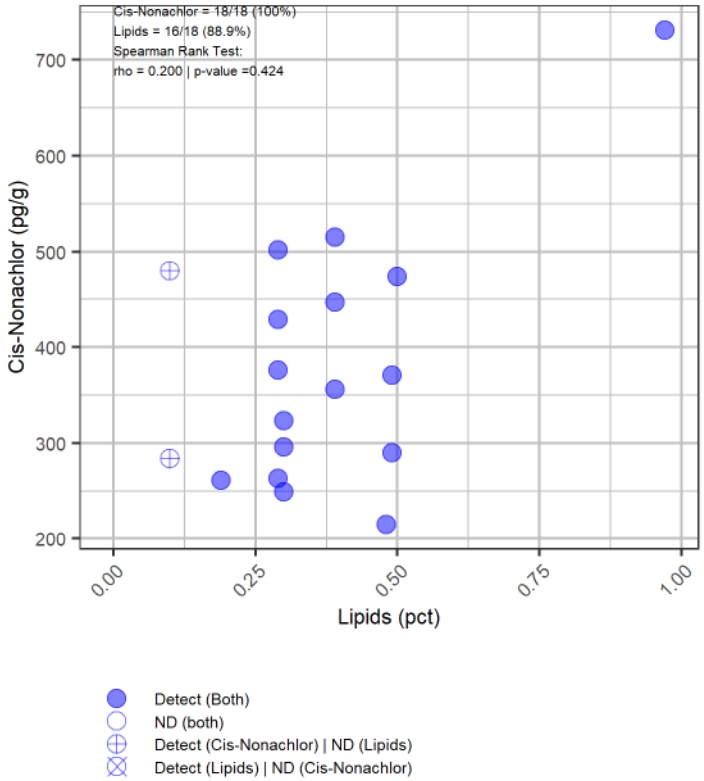
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

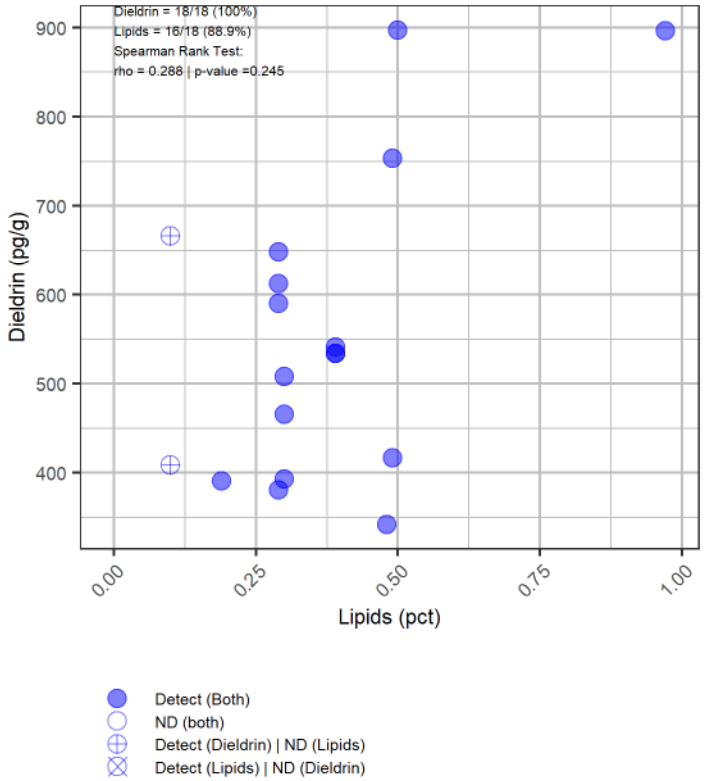
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

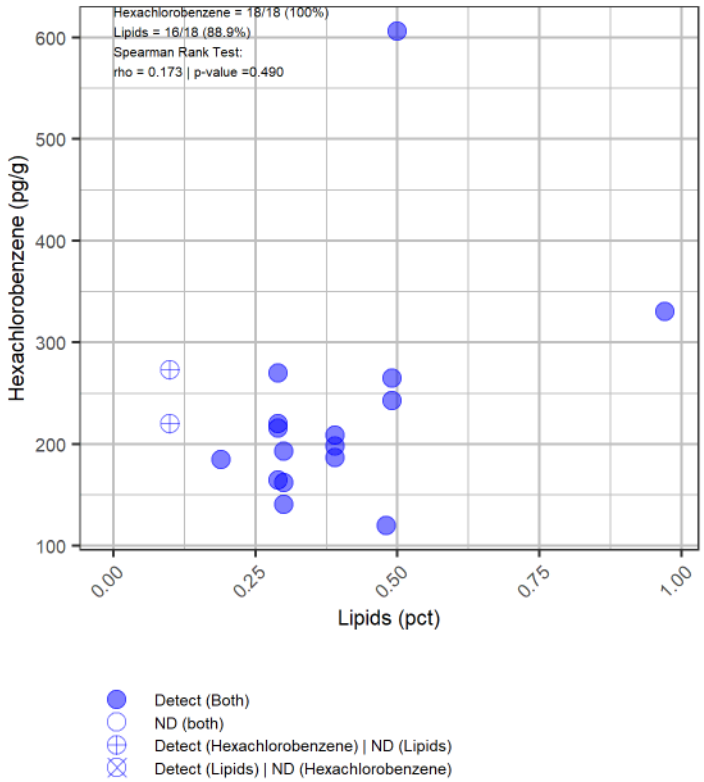
LIPID CORRELATION - SOFTSHELL CLAM

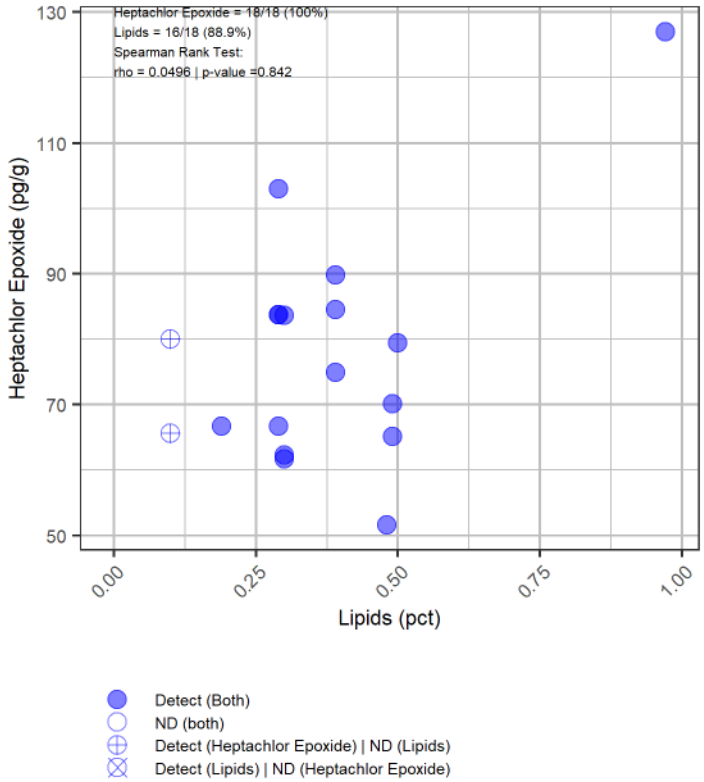
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-45









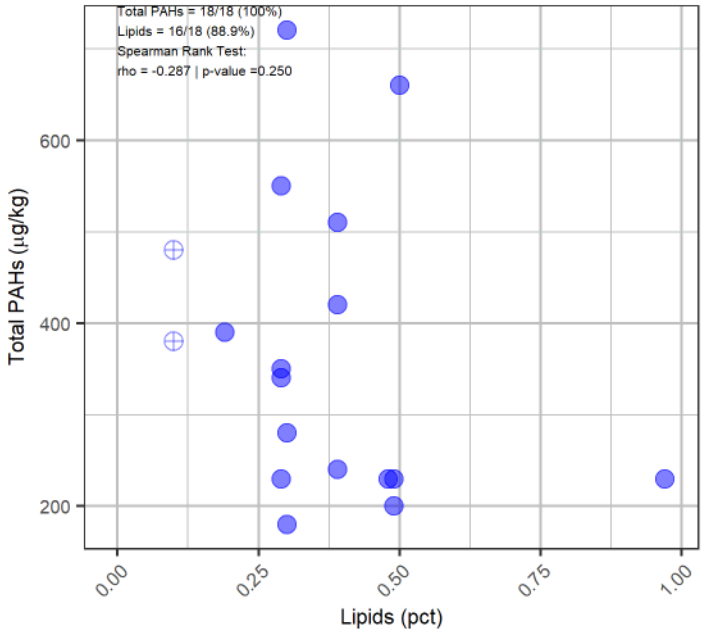
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

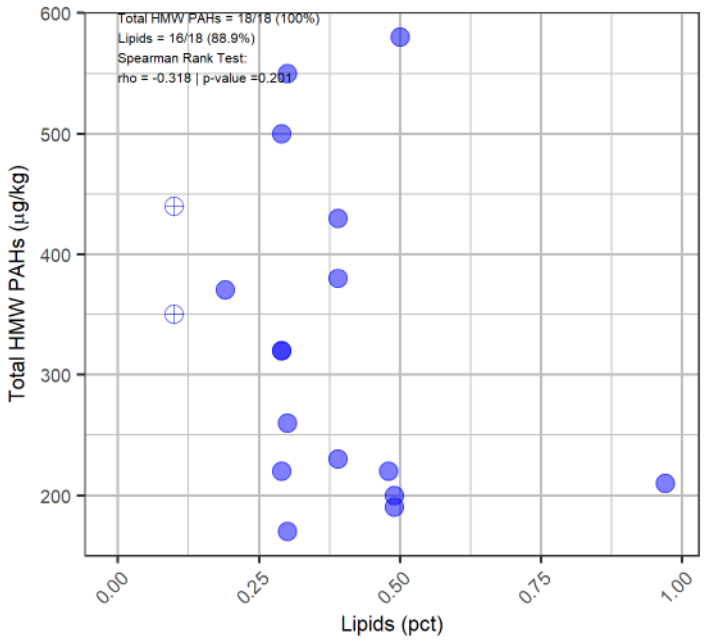
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

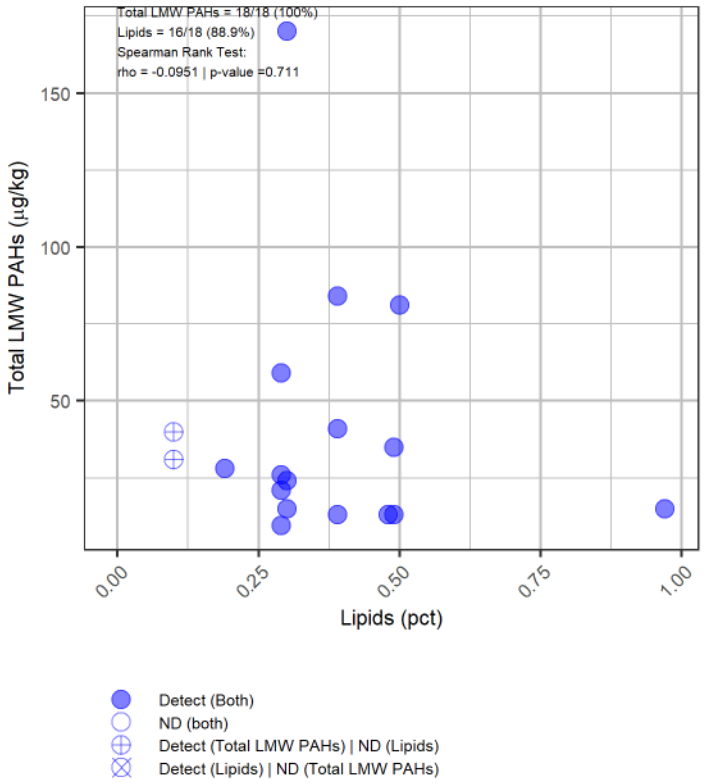
LIPID CORRELATION - SOFTSHELL CLAM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-46







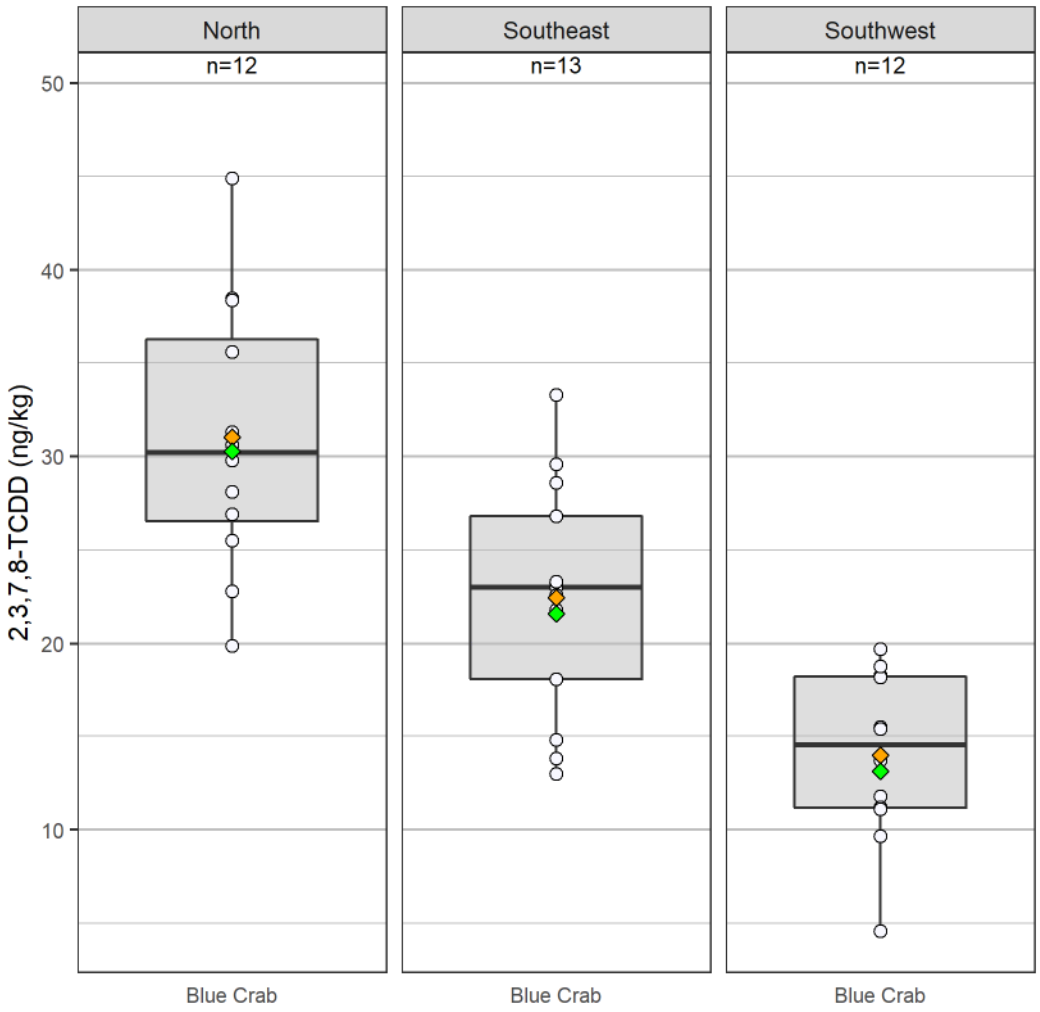
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

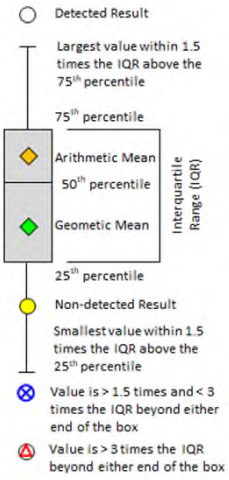
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

LIPID CORRELATION - SOFTSHELL CLAM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-47





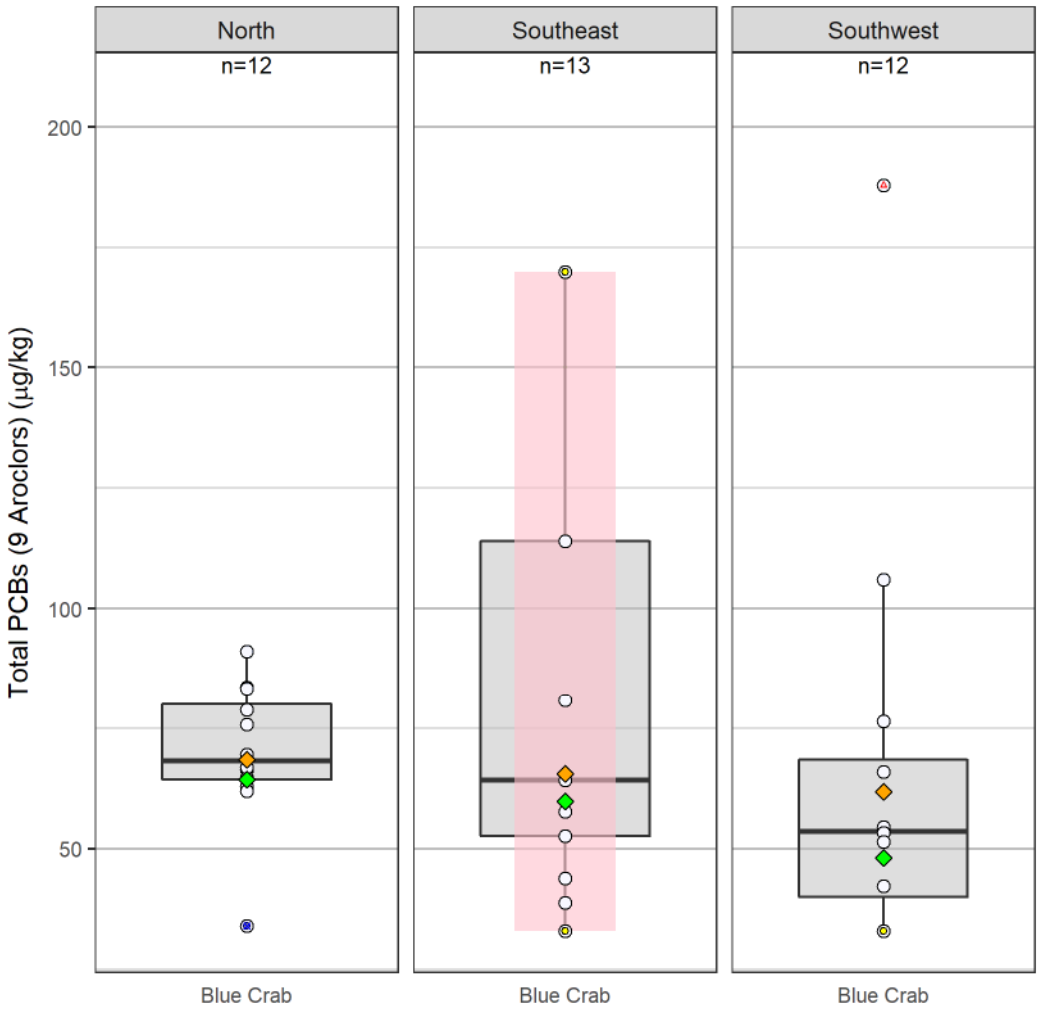
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

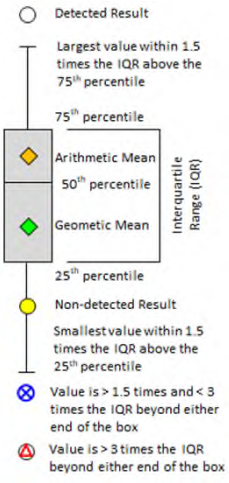
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - 2,3,7,8-TCDD

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-48





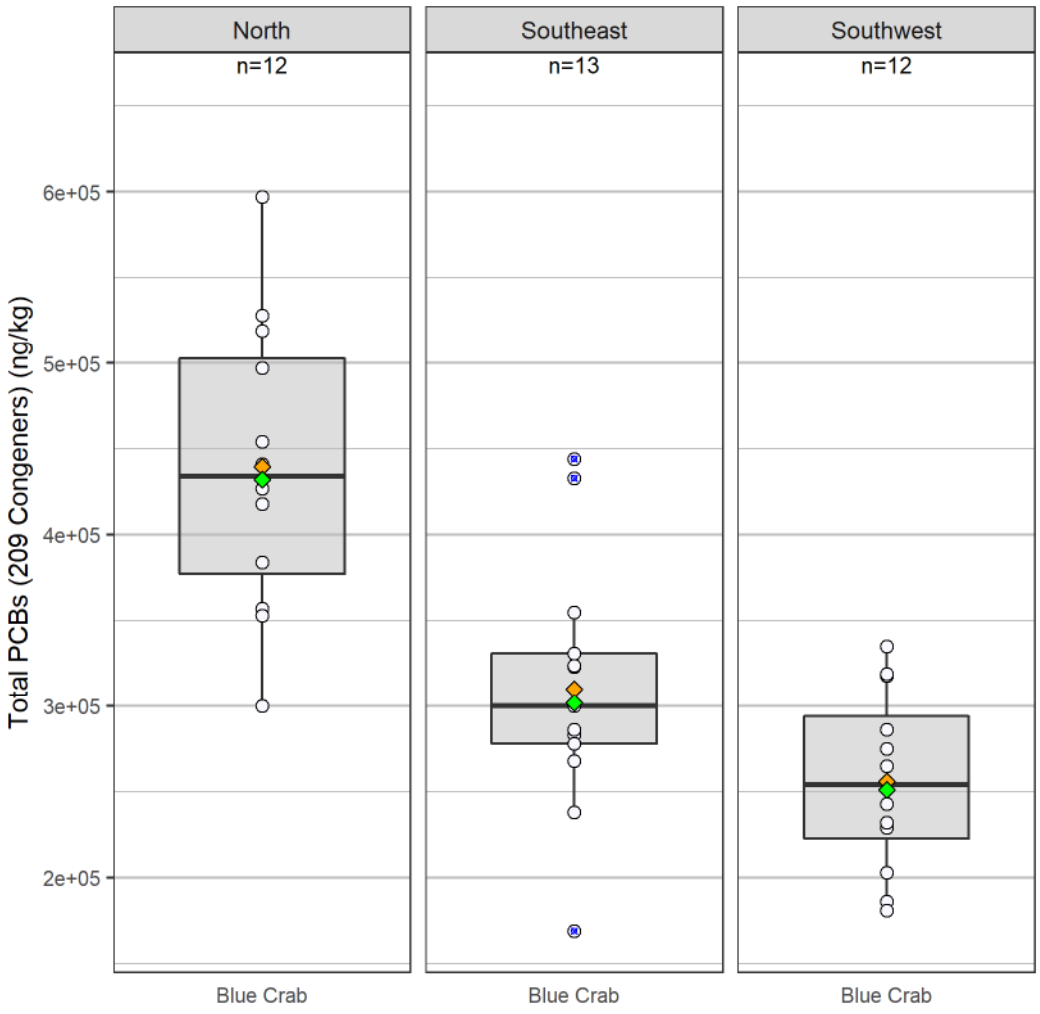
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

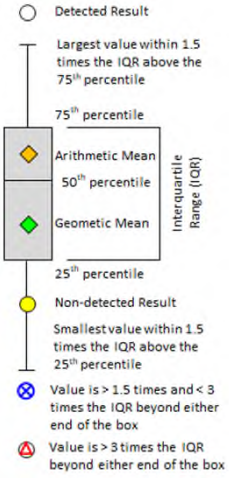
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL PCBS (9 AROCLORS)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-49





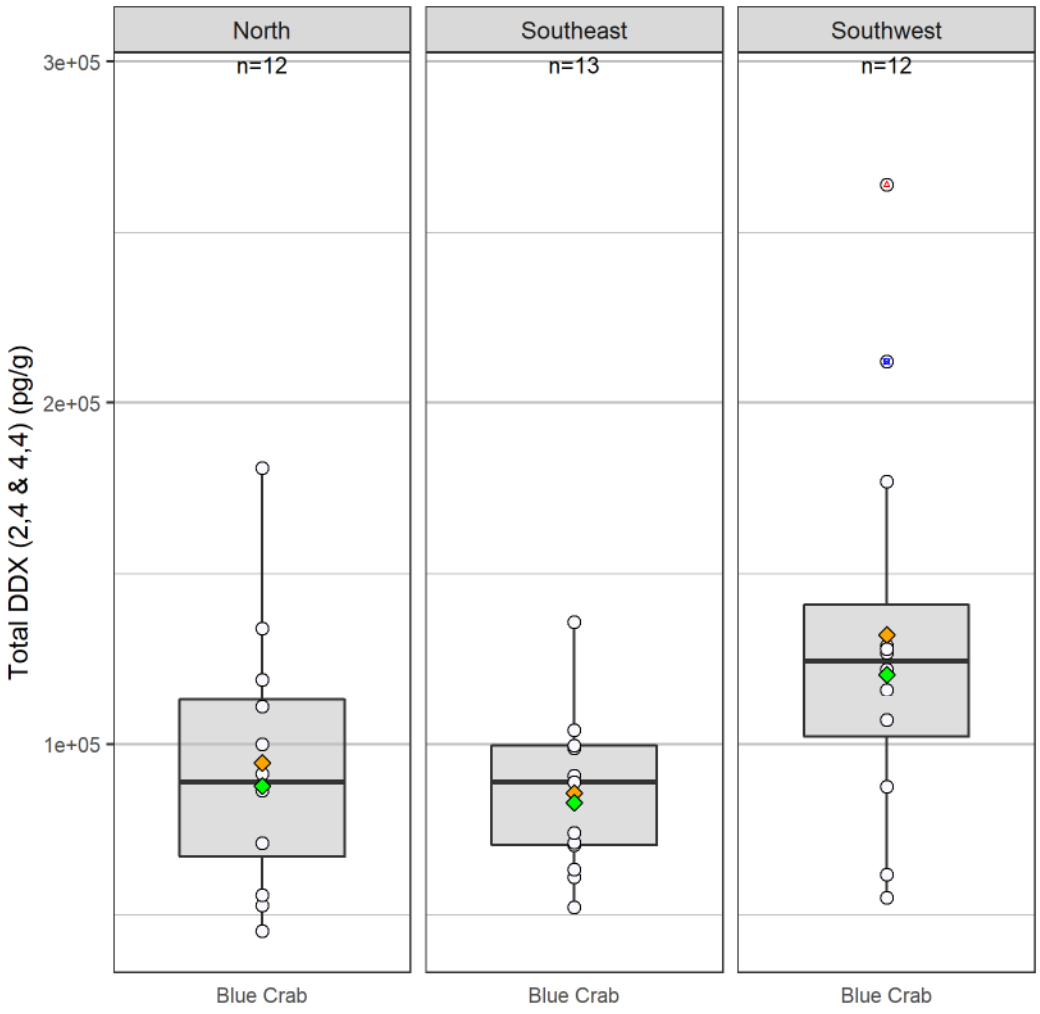
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

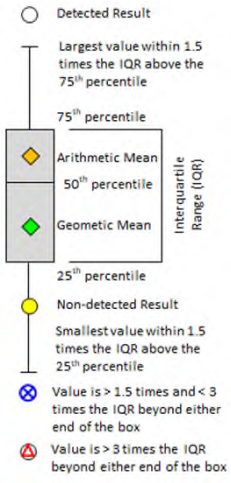
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL PCB (209 CONGENERS)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-50





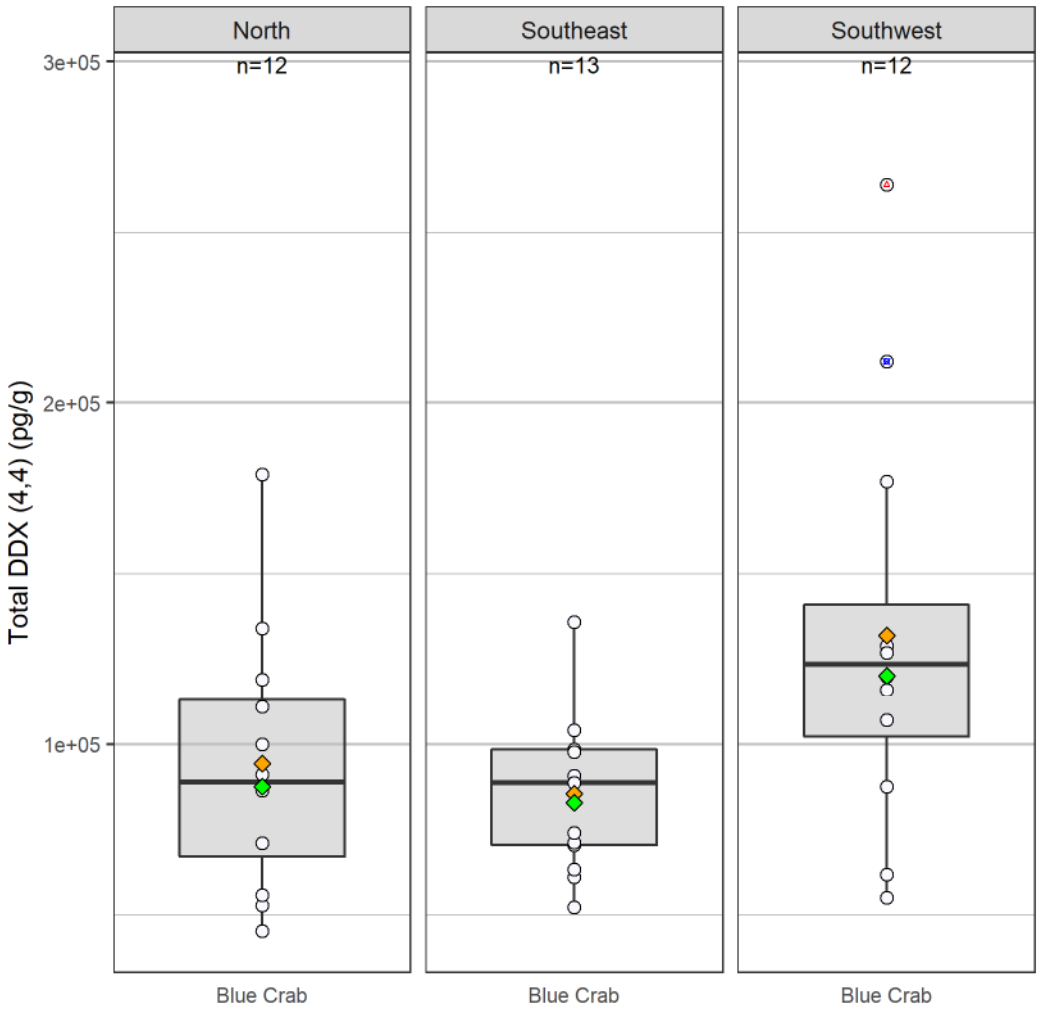
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

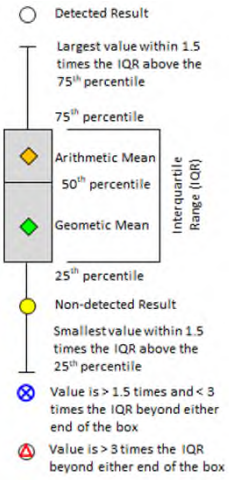
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL DDX (2,4 & 4,4)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-51





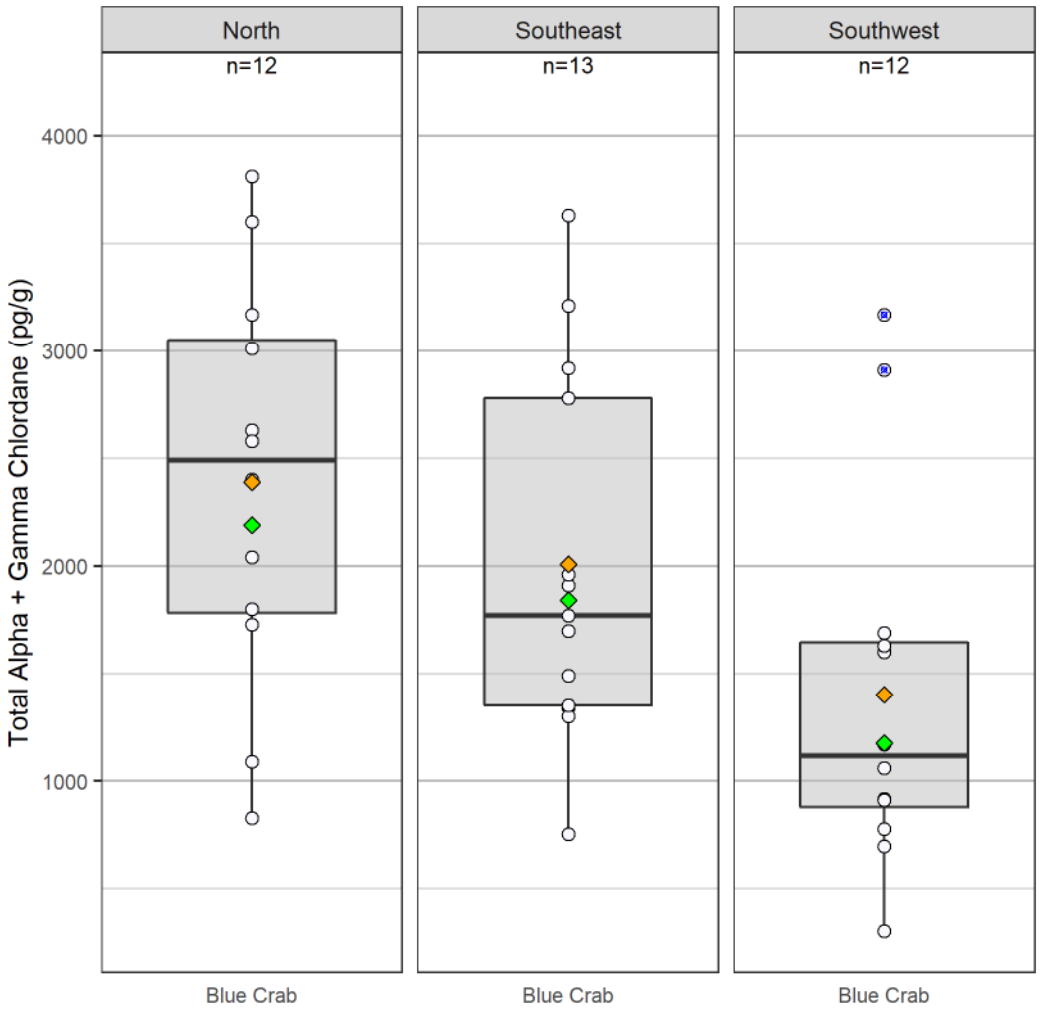
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

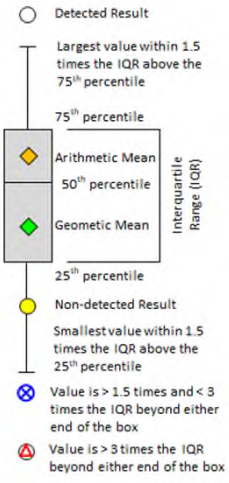
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL DDX (4,4)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-52





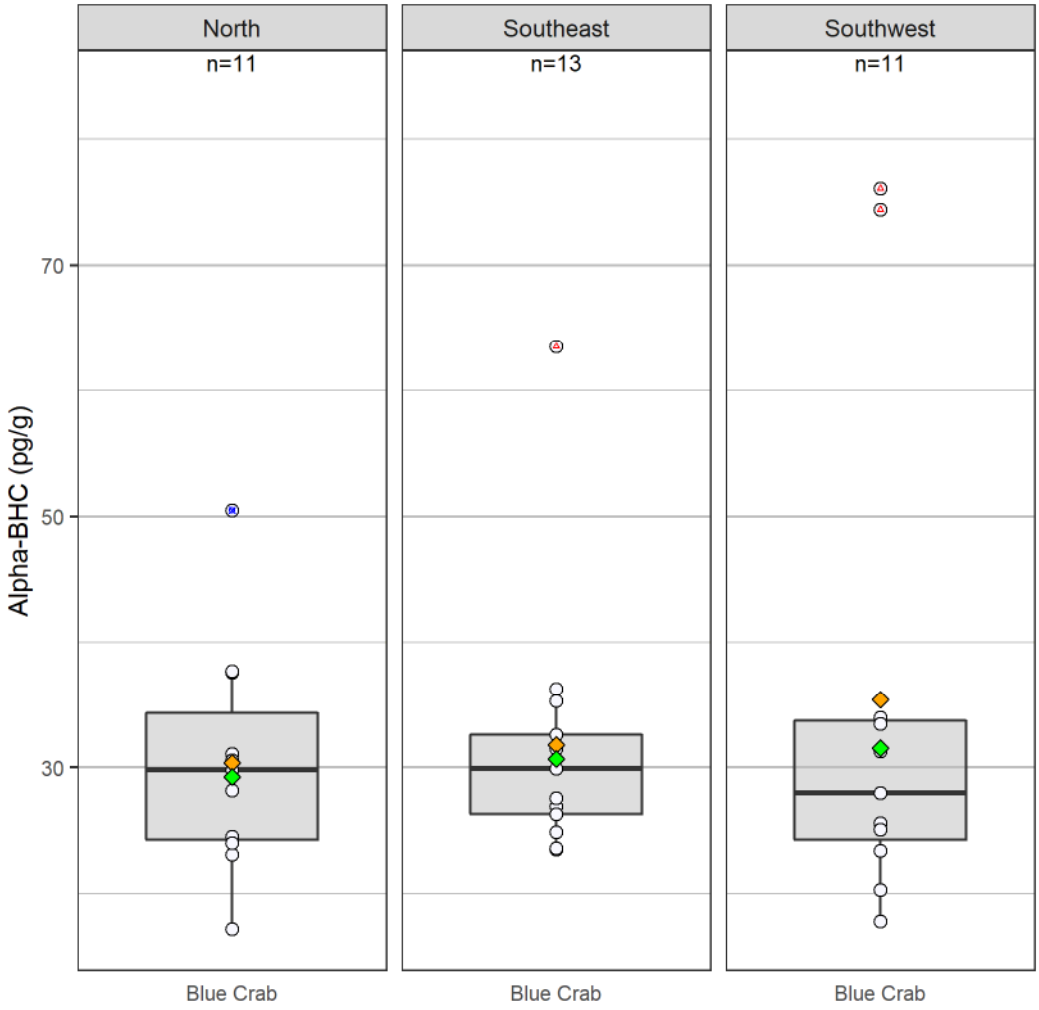
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

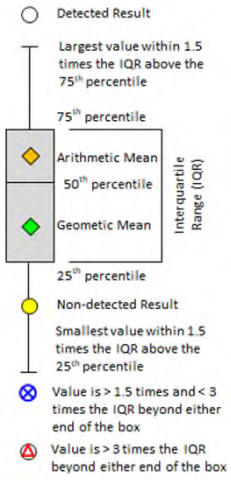
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL ALPHA + GAMMA CHLORDANE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-53





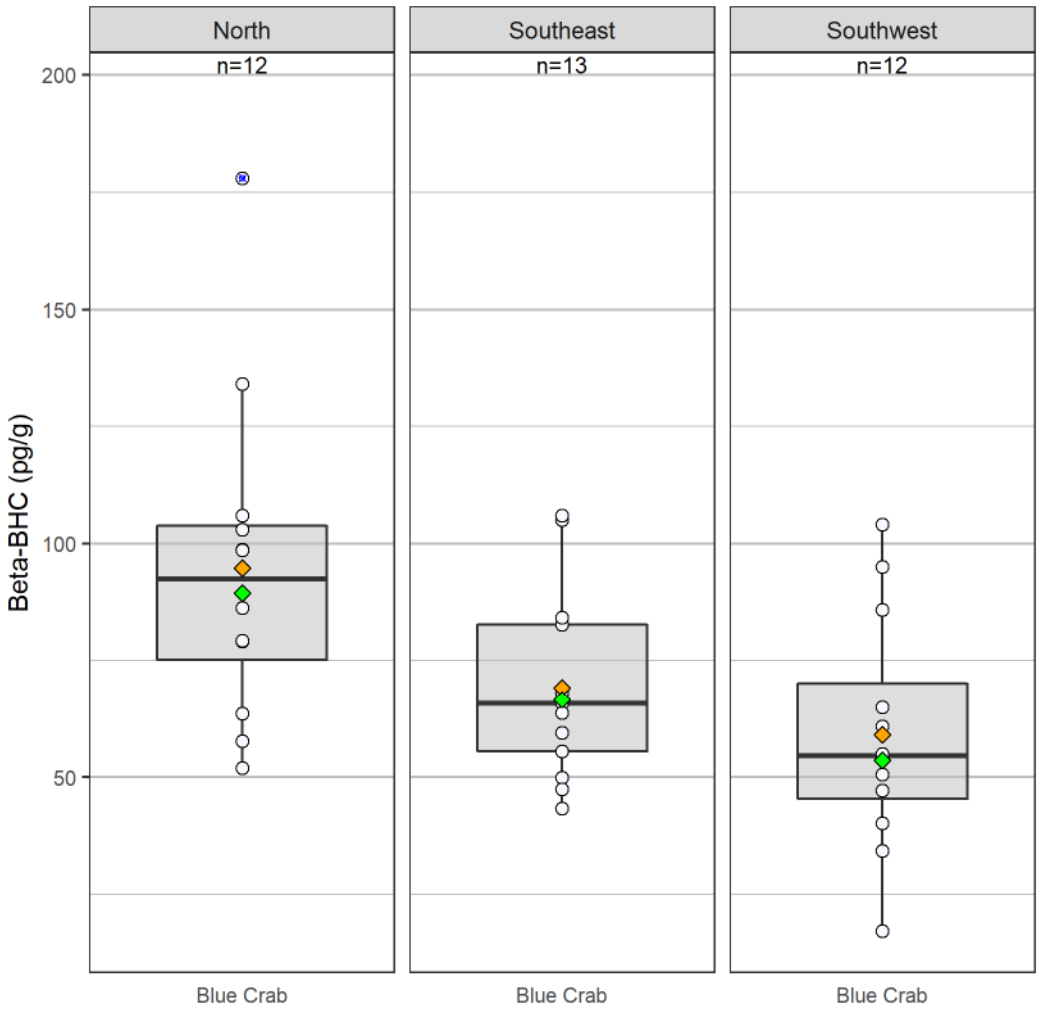
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

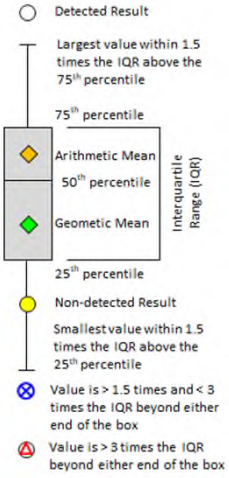
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - ALPHA-BHC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-54





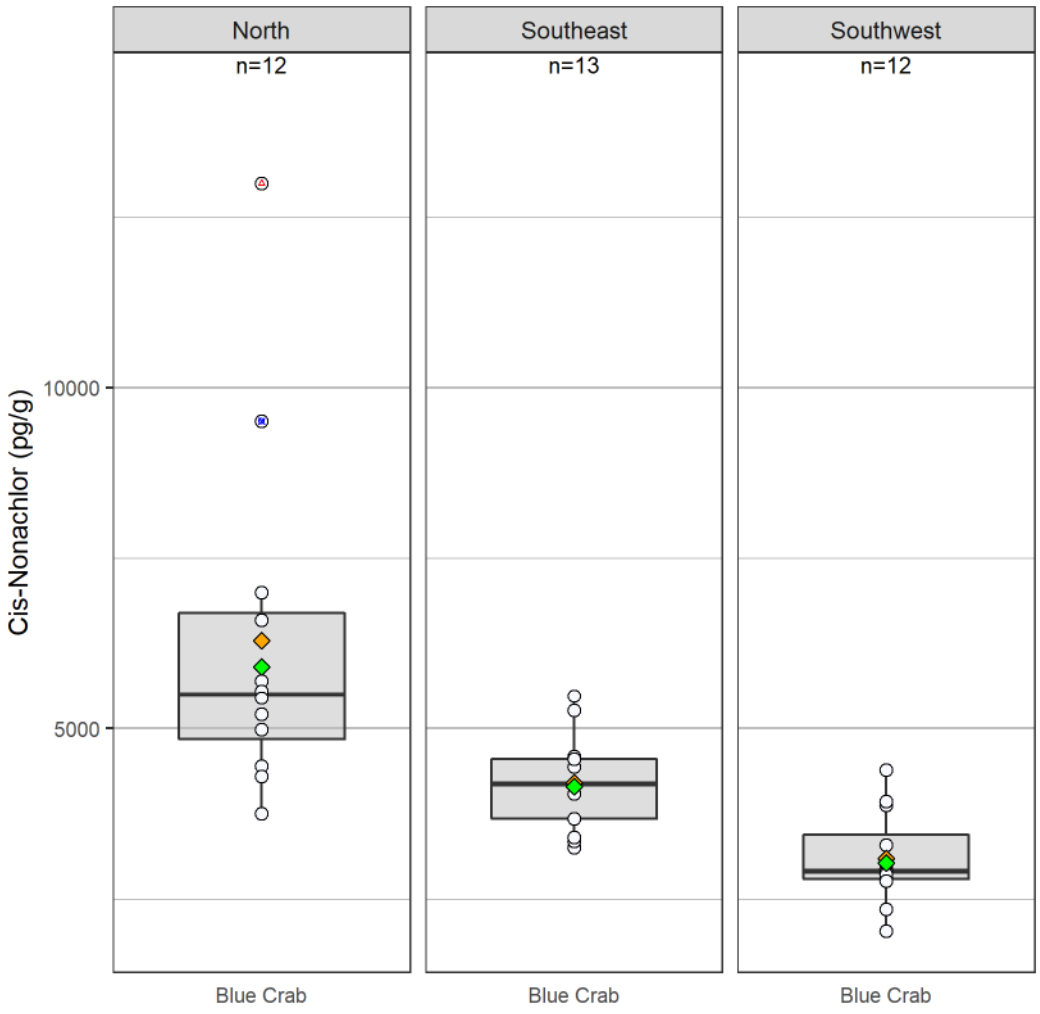
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

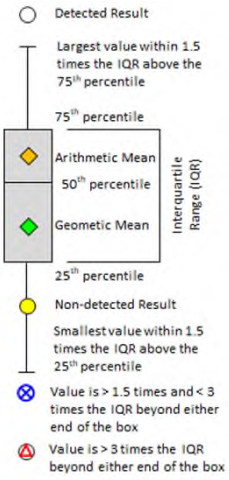
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - BETA-BHC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-55





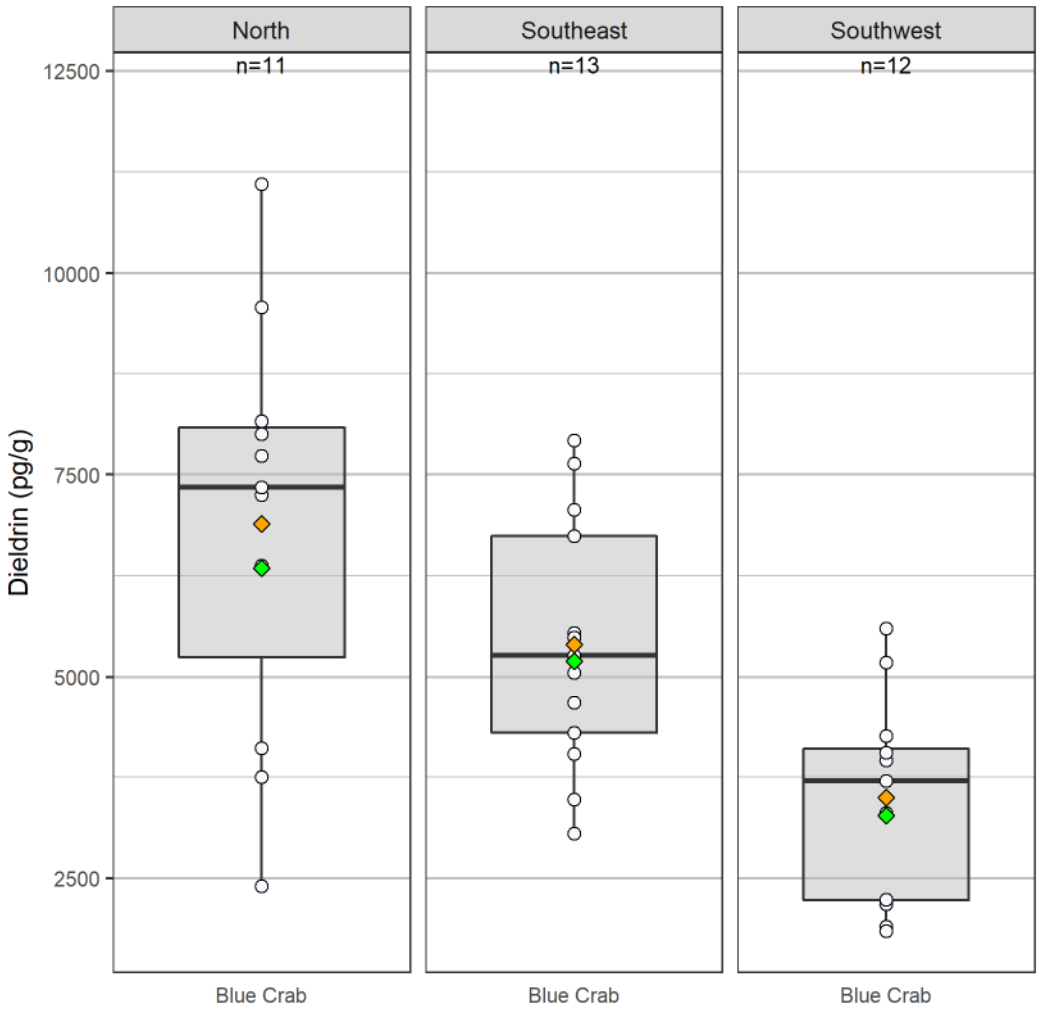
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

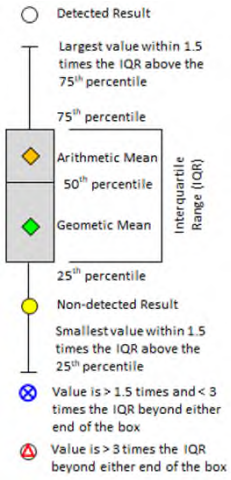
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - CIS-NONACHLOR

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-56





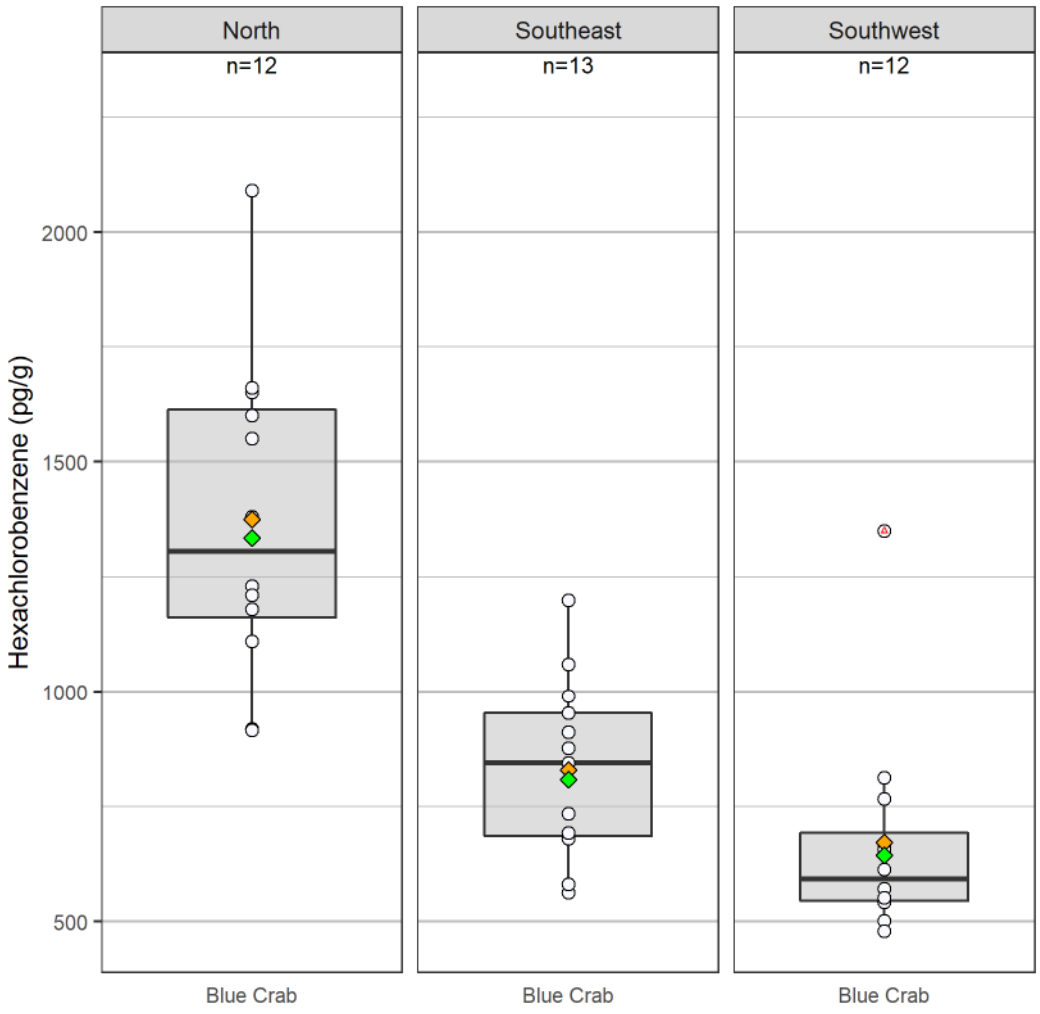
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

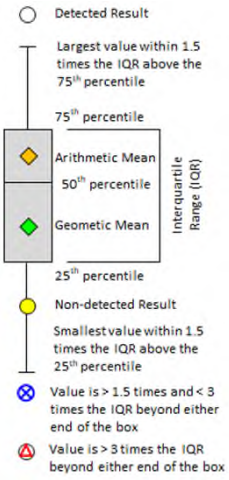
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - DIELDRIN

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-57





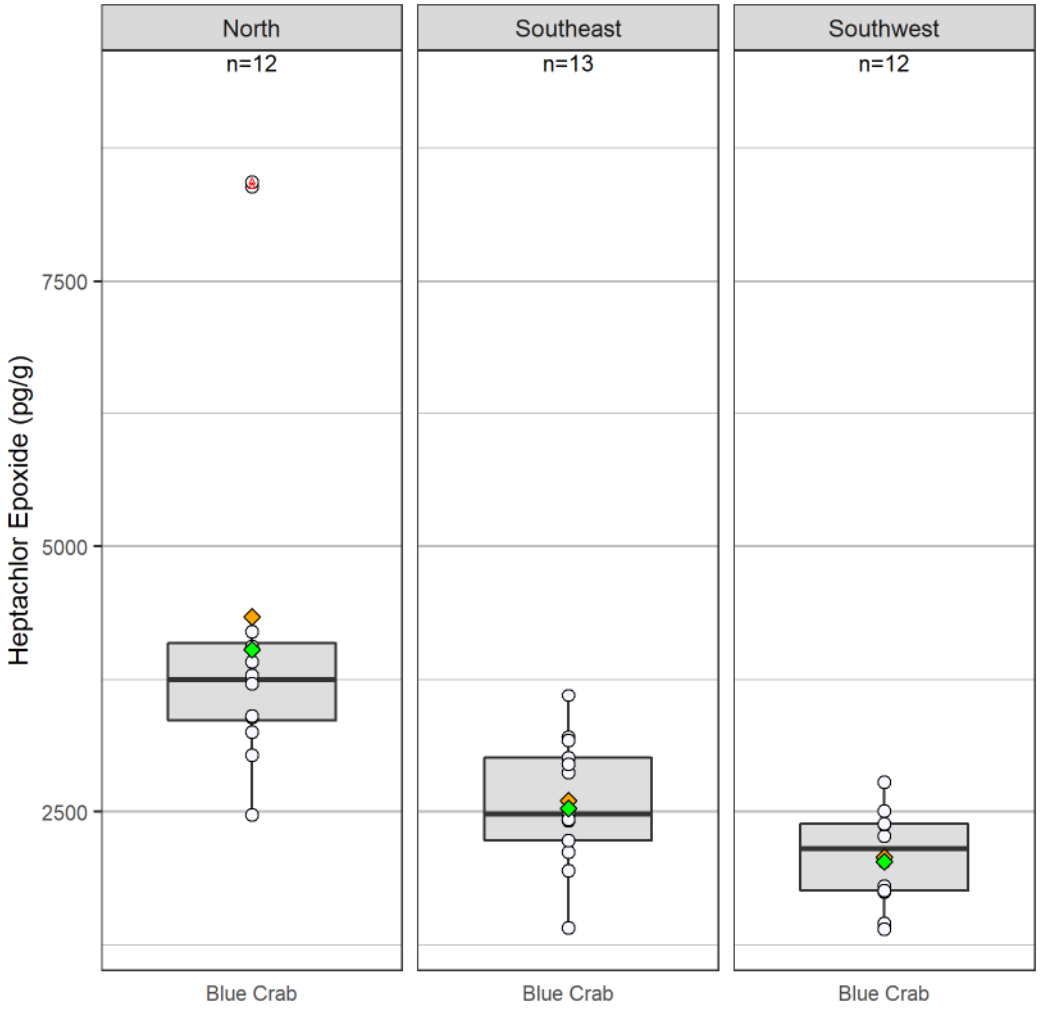
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

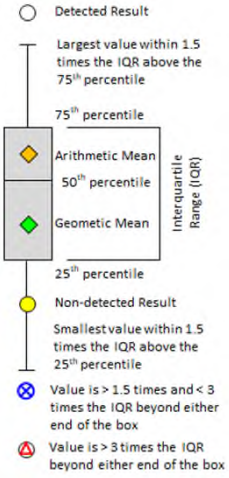
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - HEXACHLOROBENZENE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-58





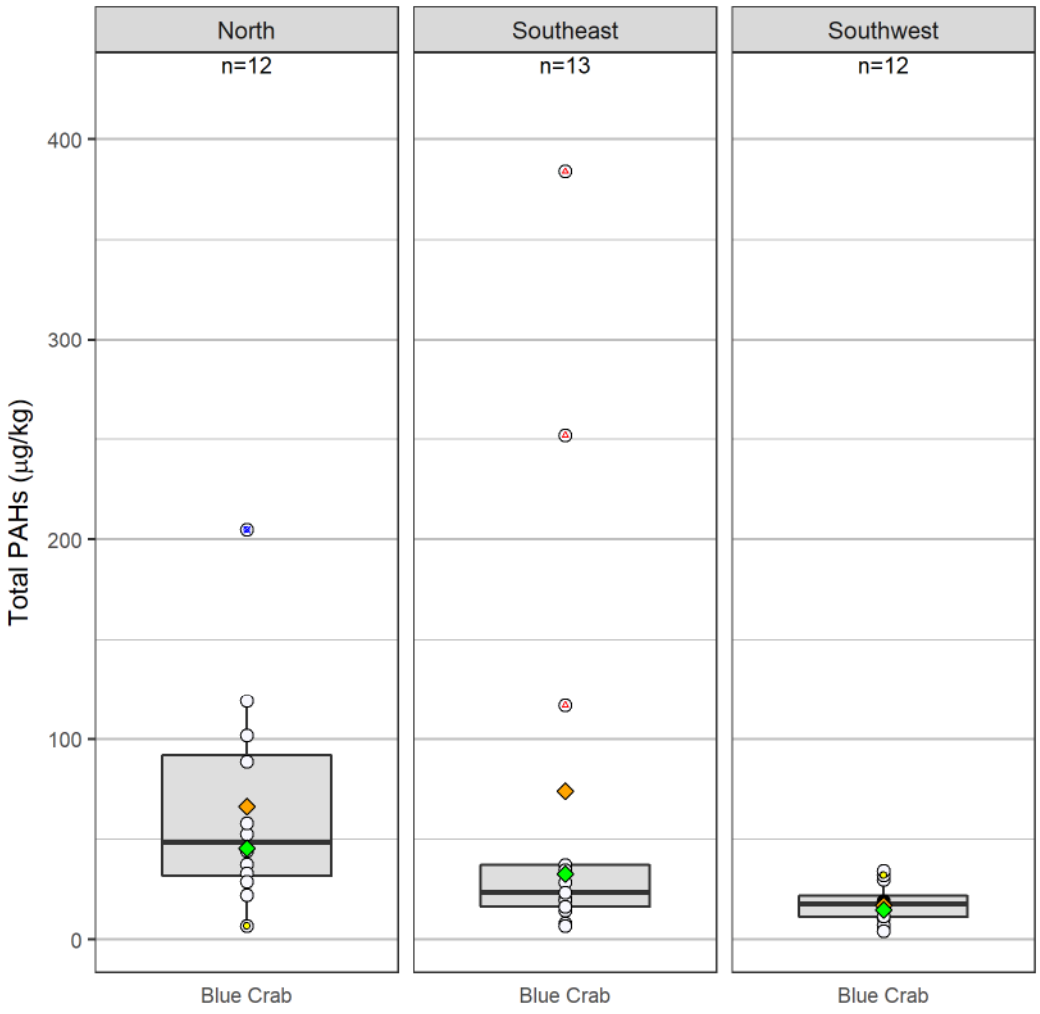
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

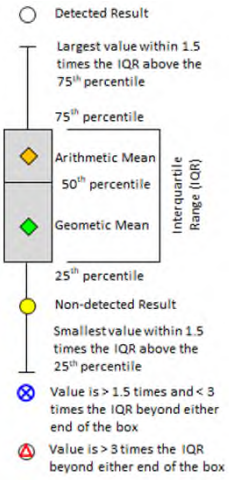
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - HEPTACHLOR EPOXIDE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-59





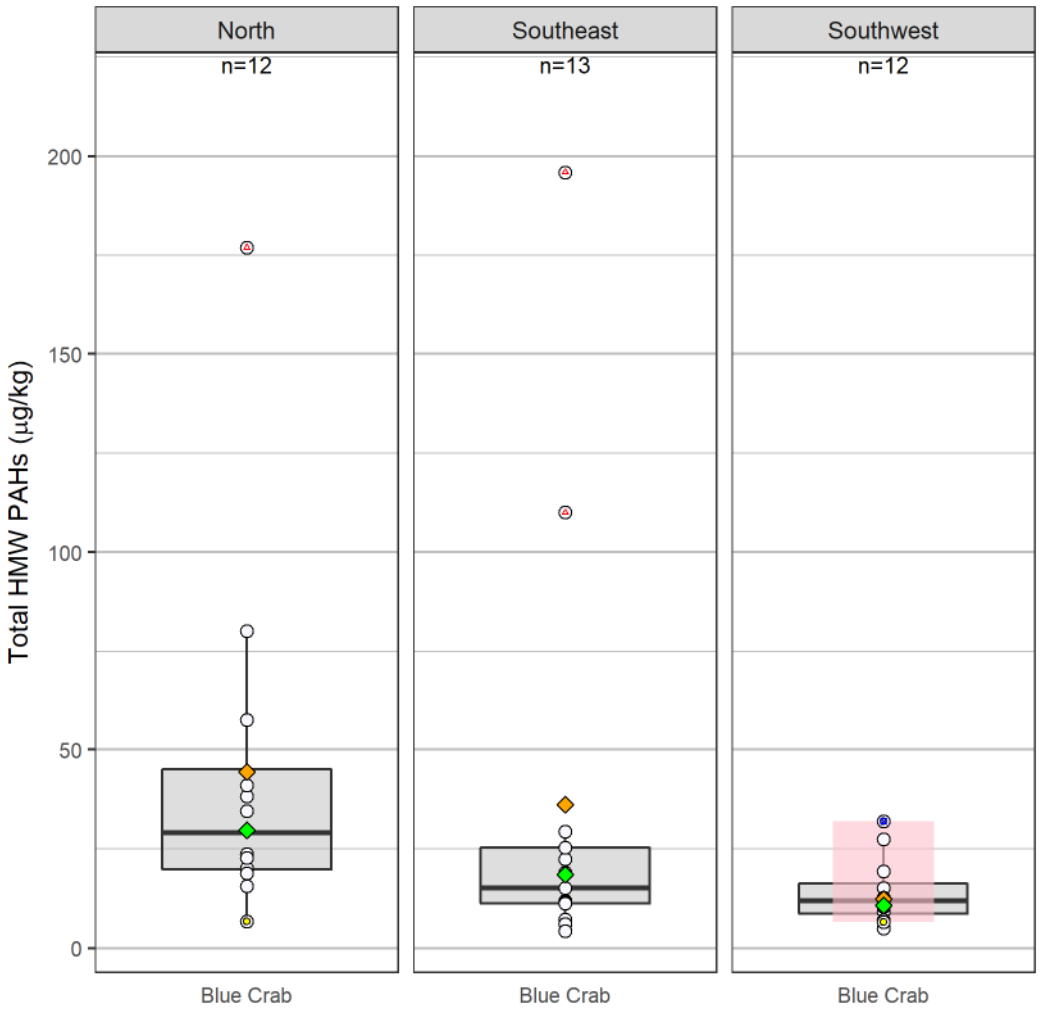
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

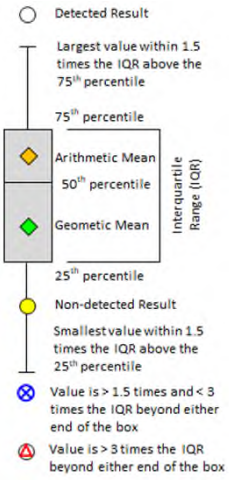
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-60





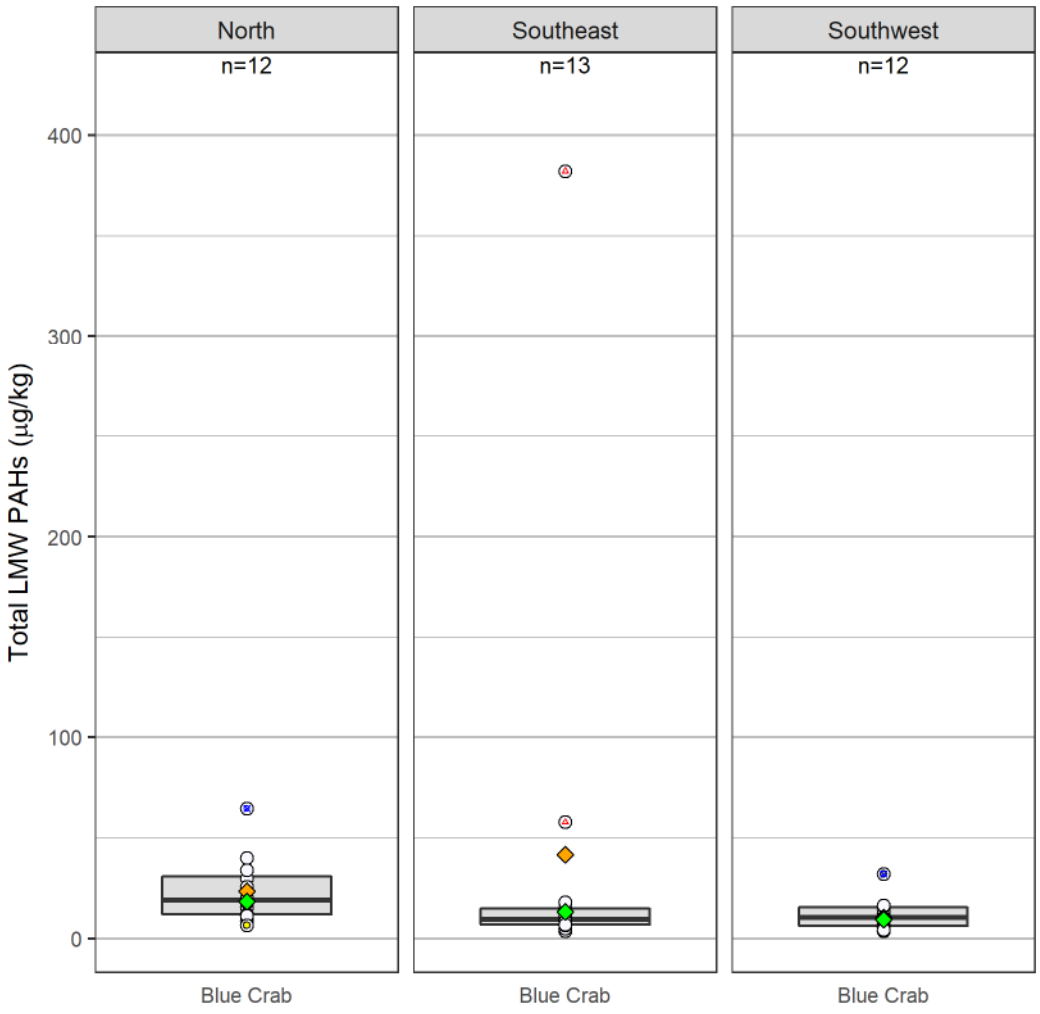
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

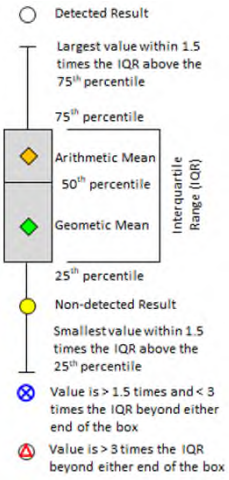
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL HMW PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-61





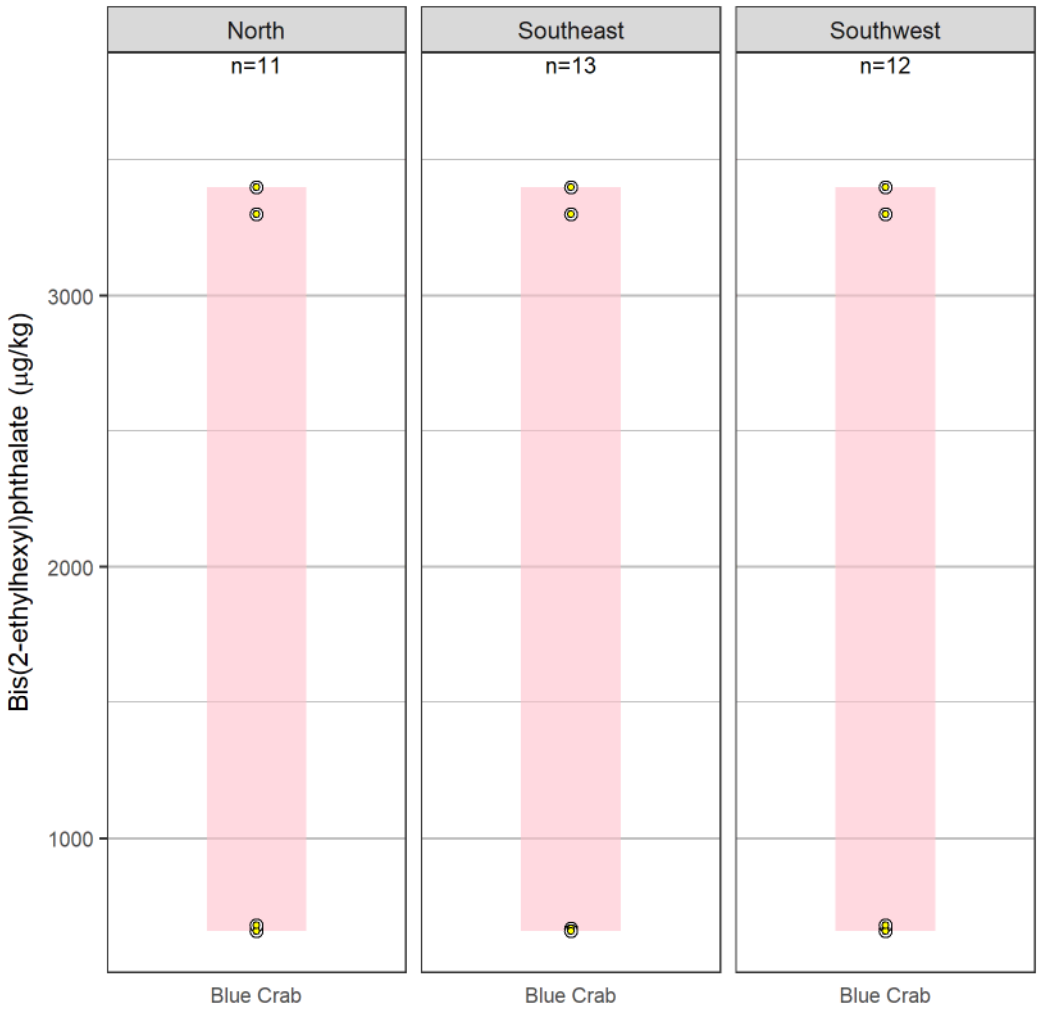
Notes:
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Non-detects plotted at the quantitation limit.
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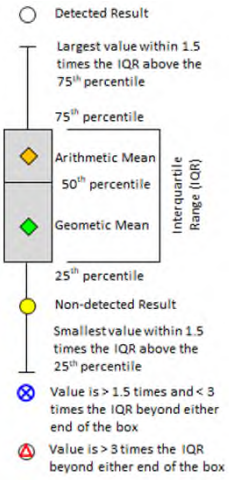
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL LMW PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-62





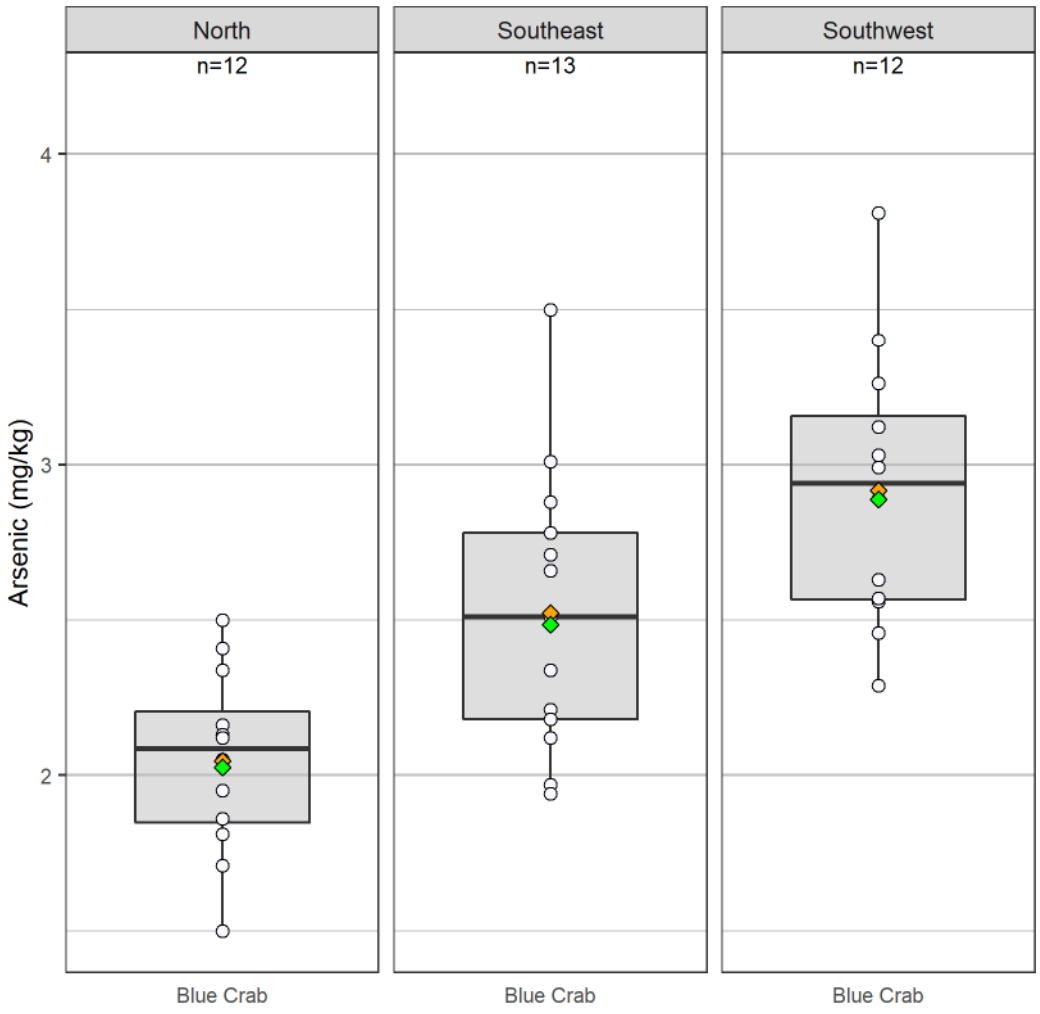
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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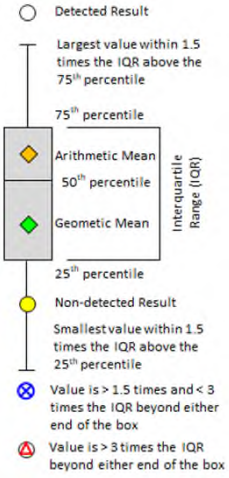
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - BIS(2-ETHYLHEXYL)PHTHALATE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-63





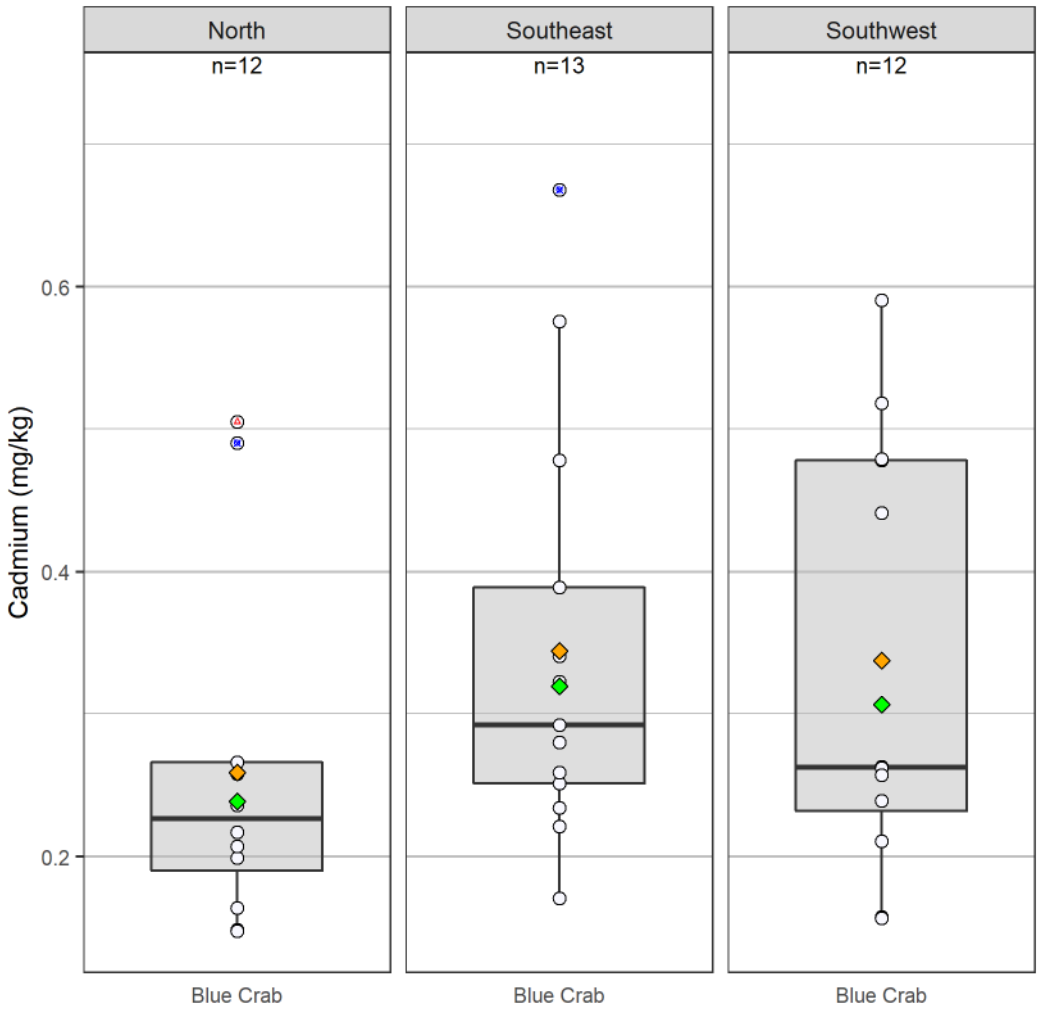
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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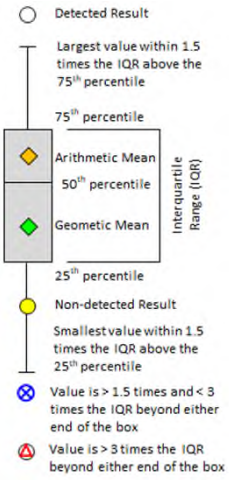
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - ARSENIC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-64





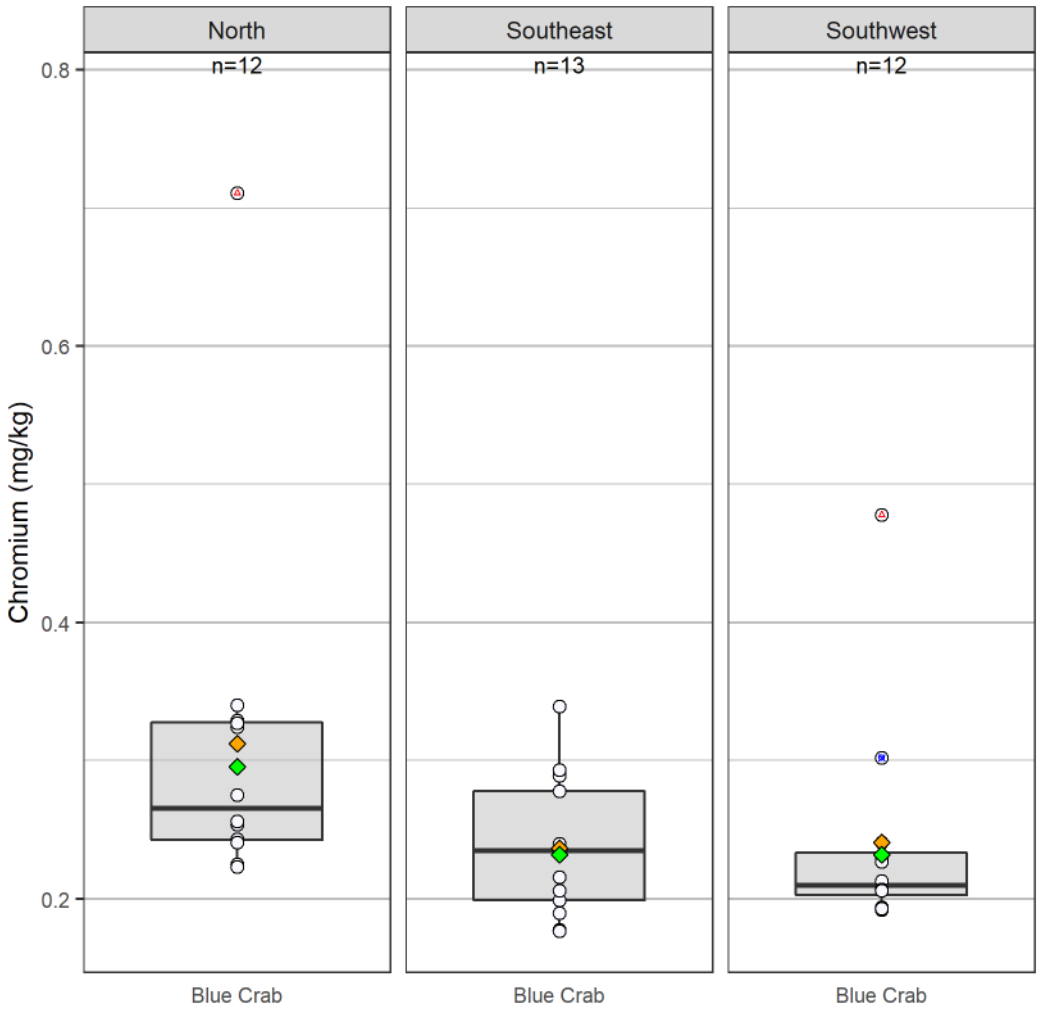
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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Pink shaded area represents range of non-detect quantitation limits.
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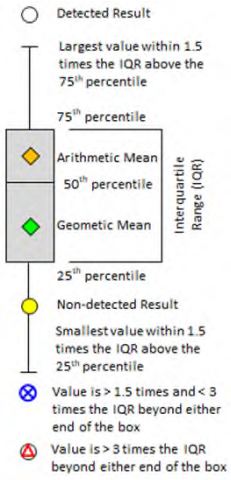
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - CADMIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-65





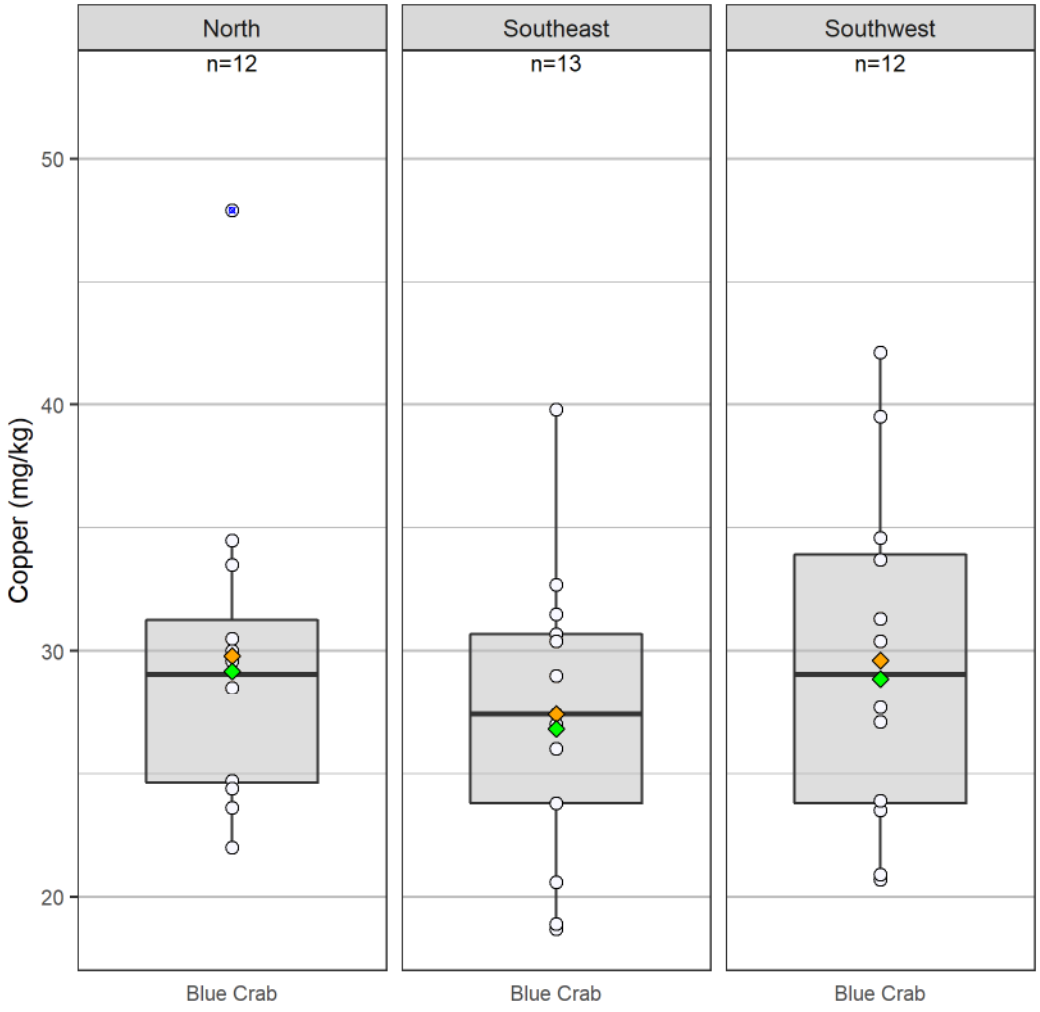
Notes:
n = number of samples
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Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

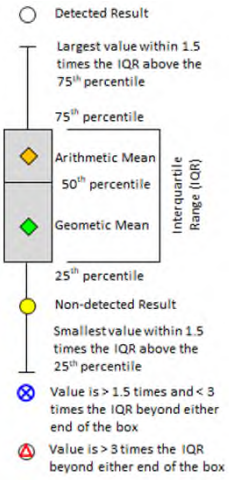
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - CHROMIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-66





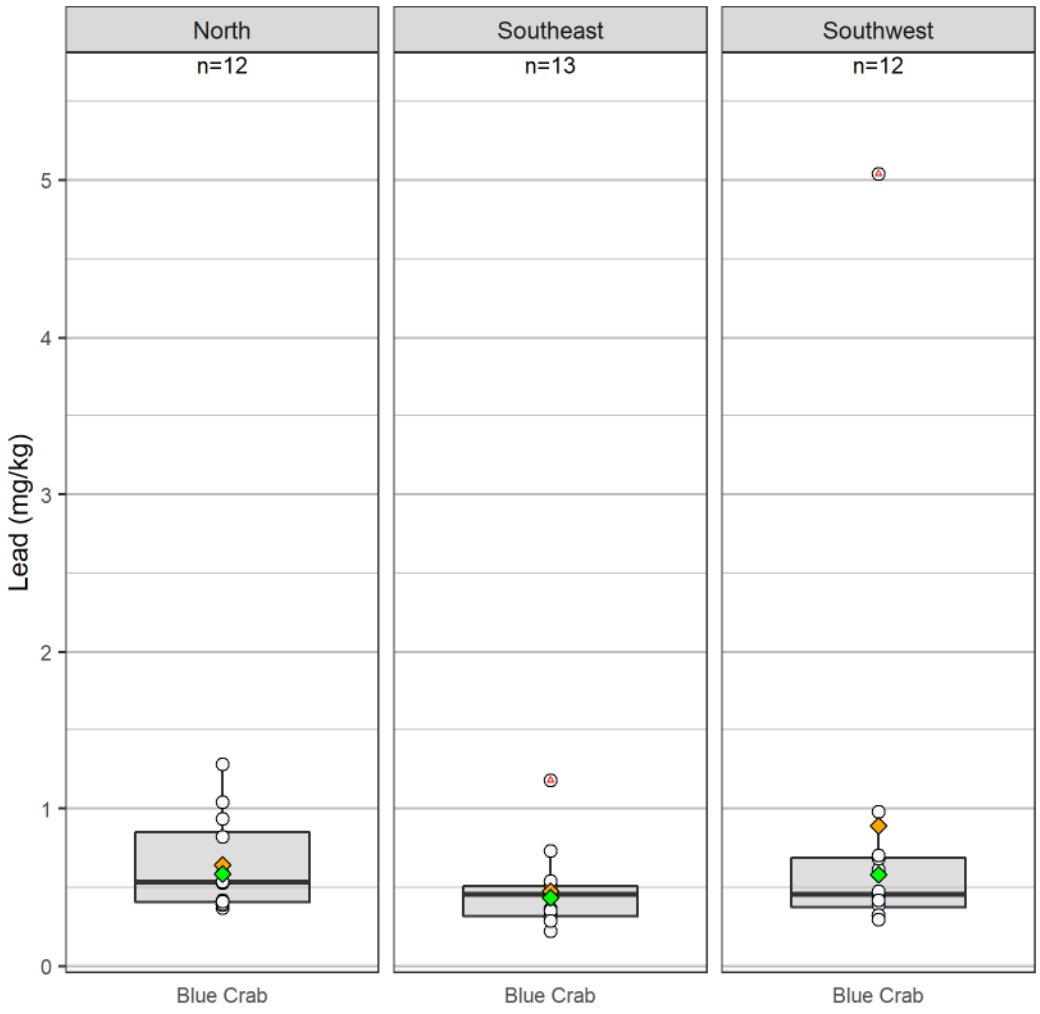
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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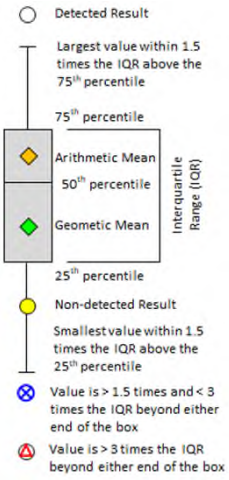
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - COPPER

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-67





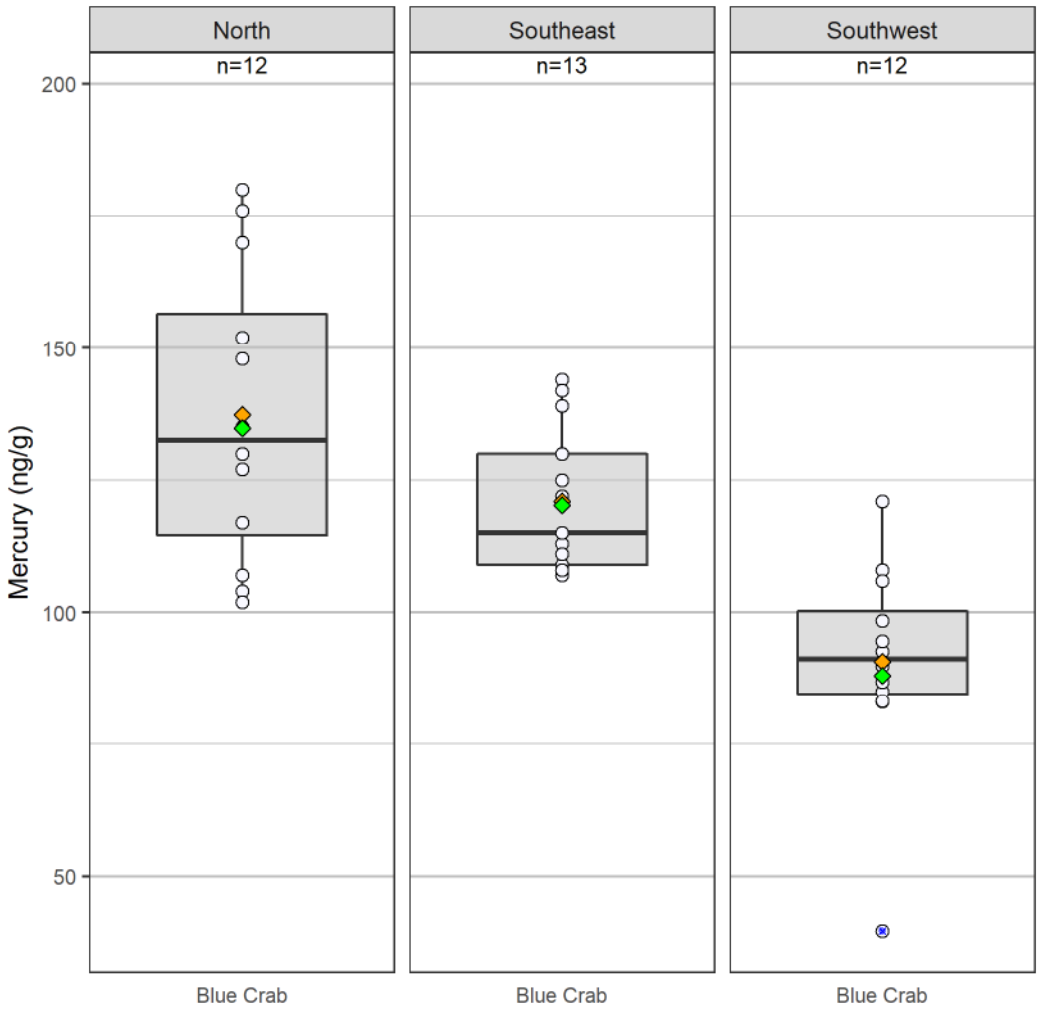
Notes:
n = number of samples
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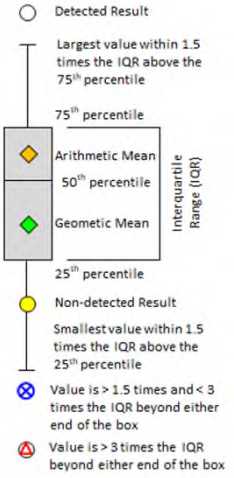
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - LEAD

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-68





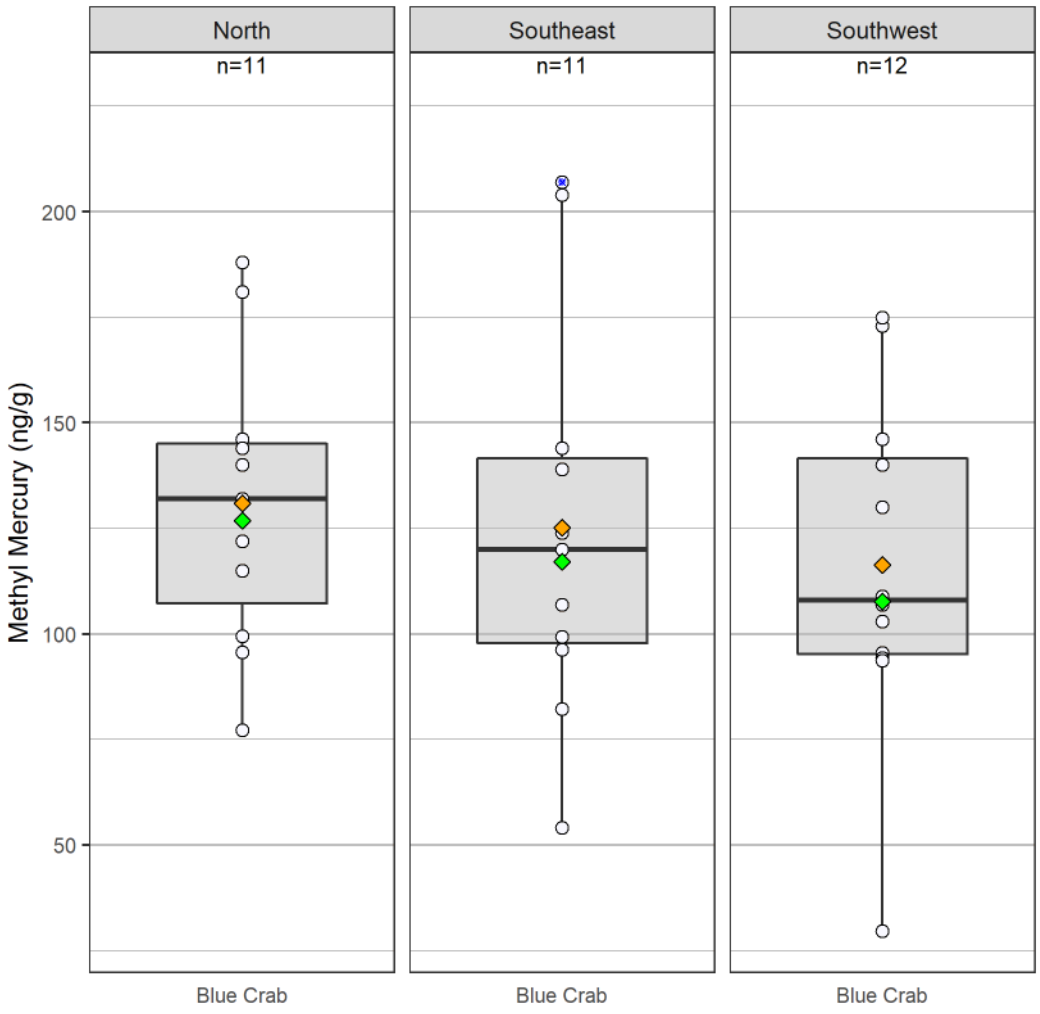
Notes:
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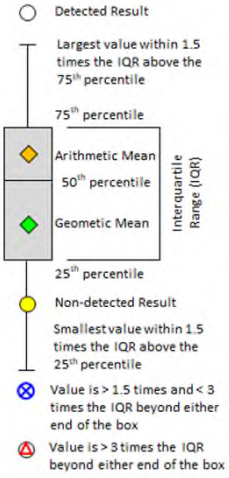
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - MERCURY

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-69





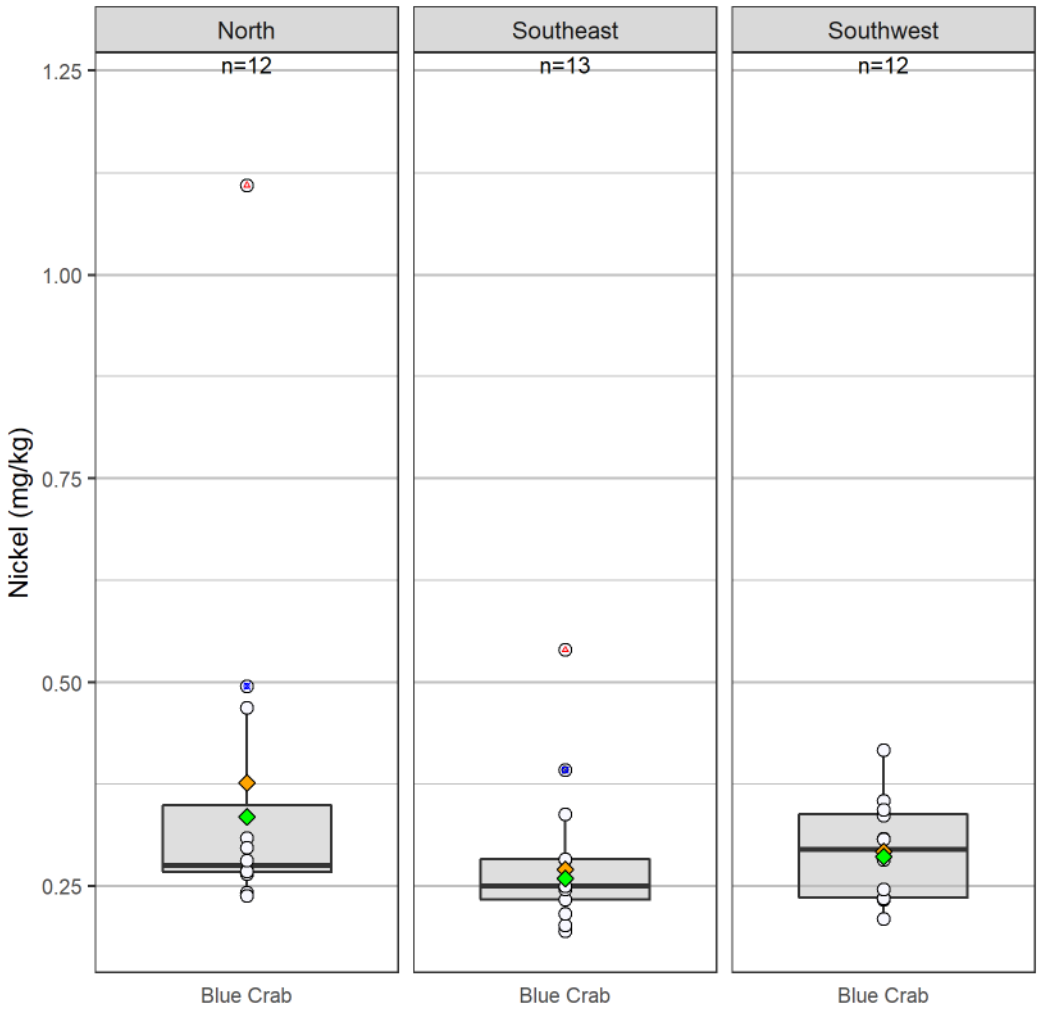
Notes:
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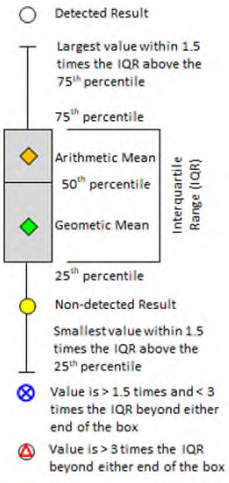
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - METHYL MERCURY

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-70





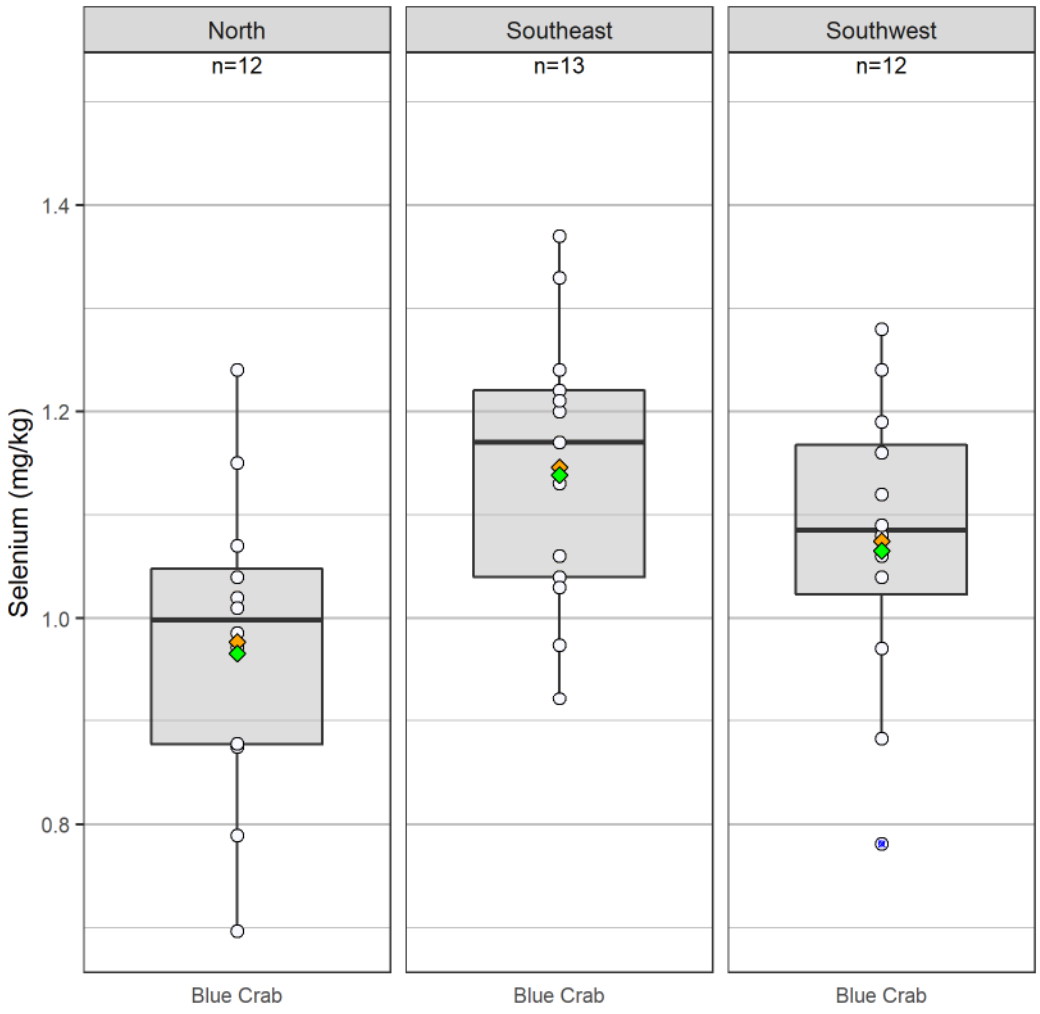
Notes:
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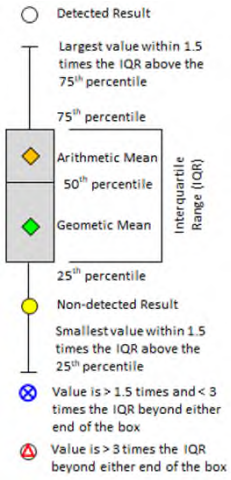
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - NICKEL

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-71





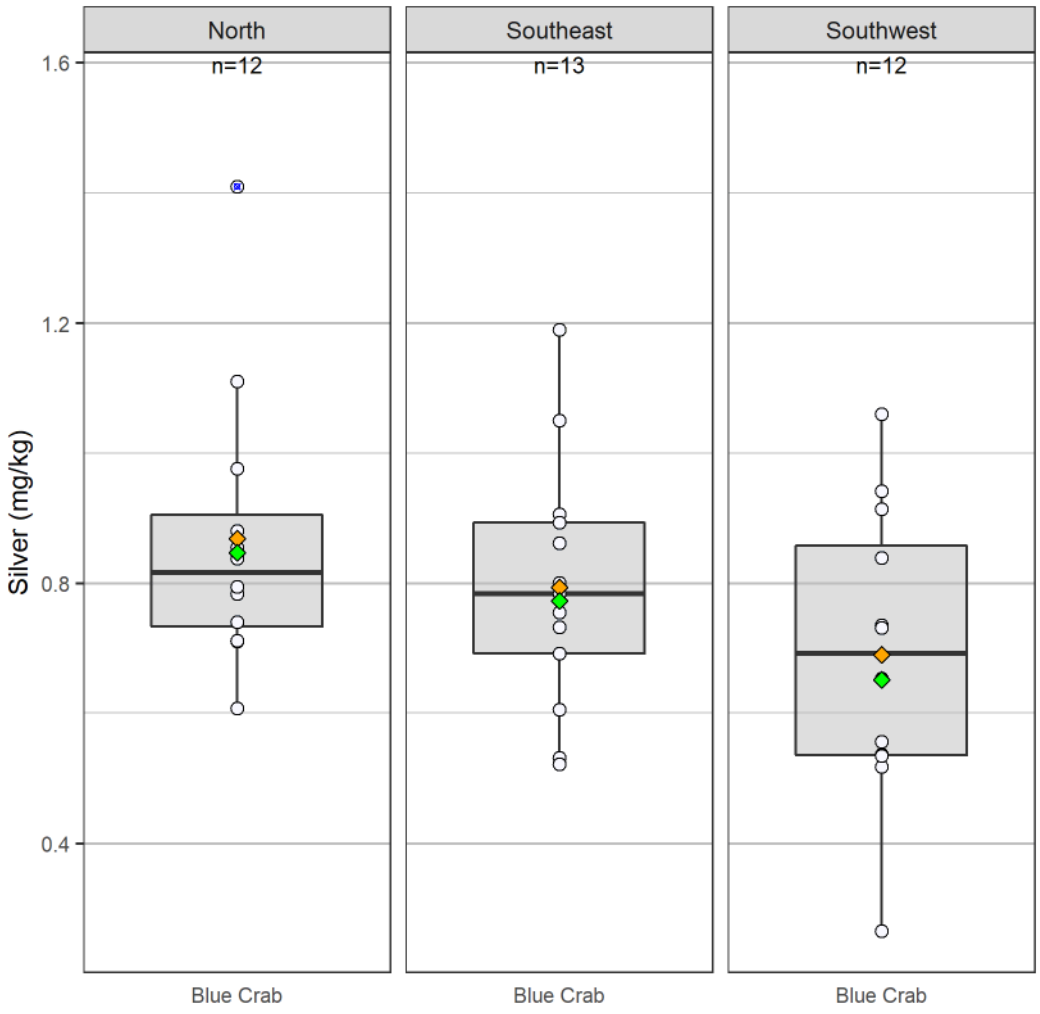
Notes:
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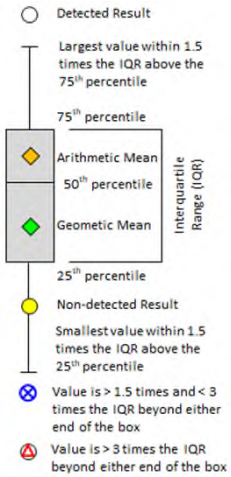
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - SELENIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-72





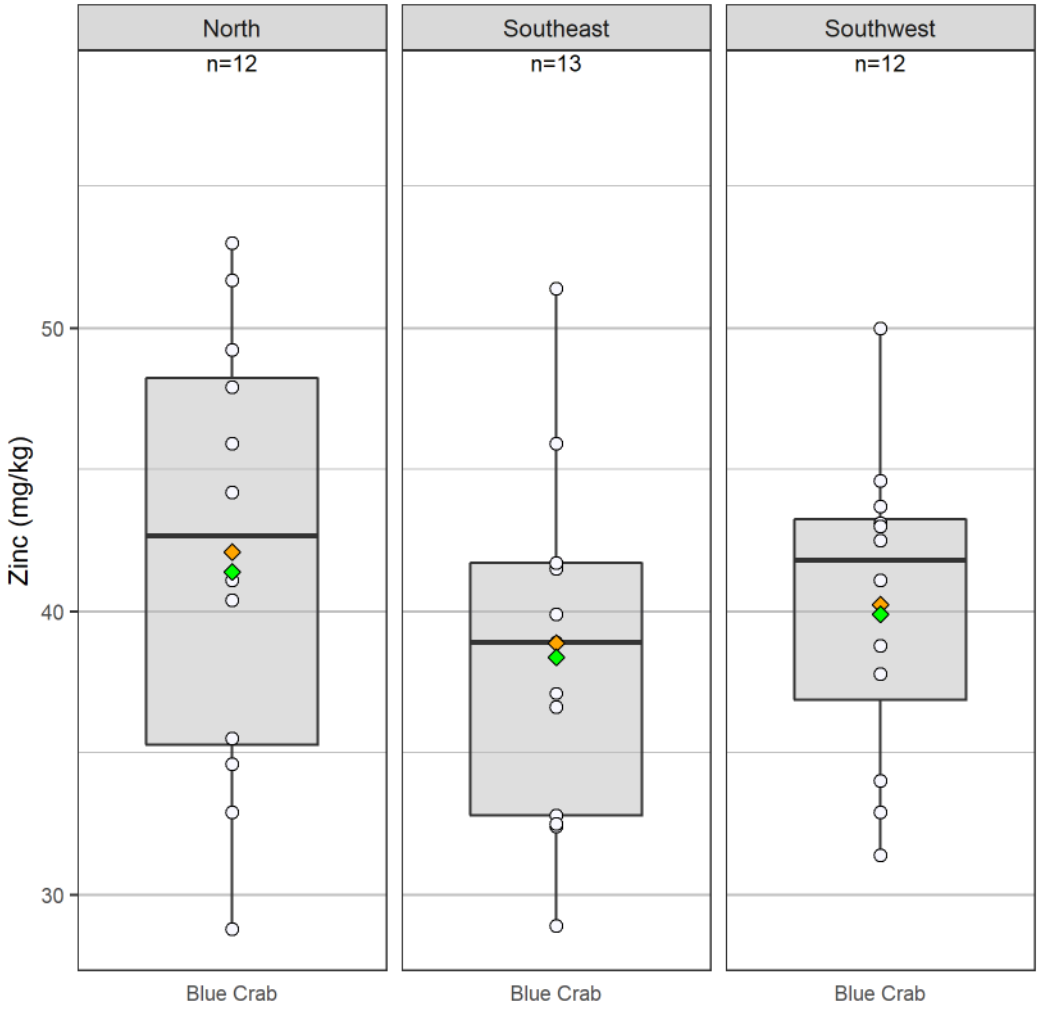
Notes:
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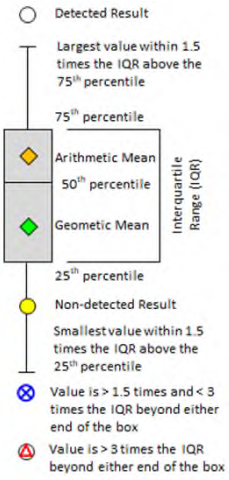
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - SILVER

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-73





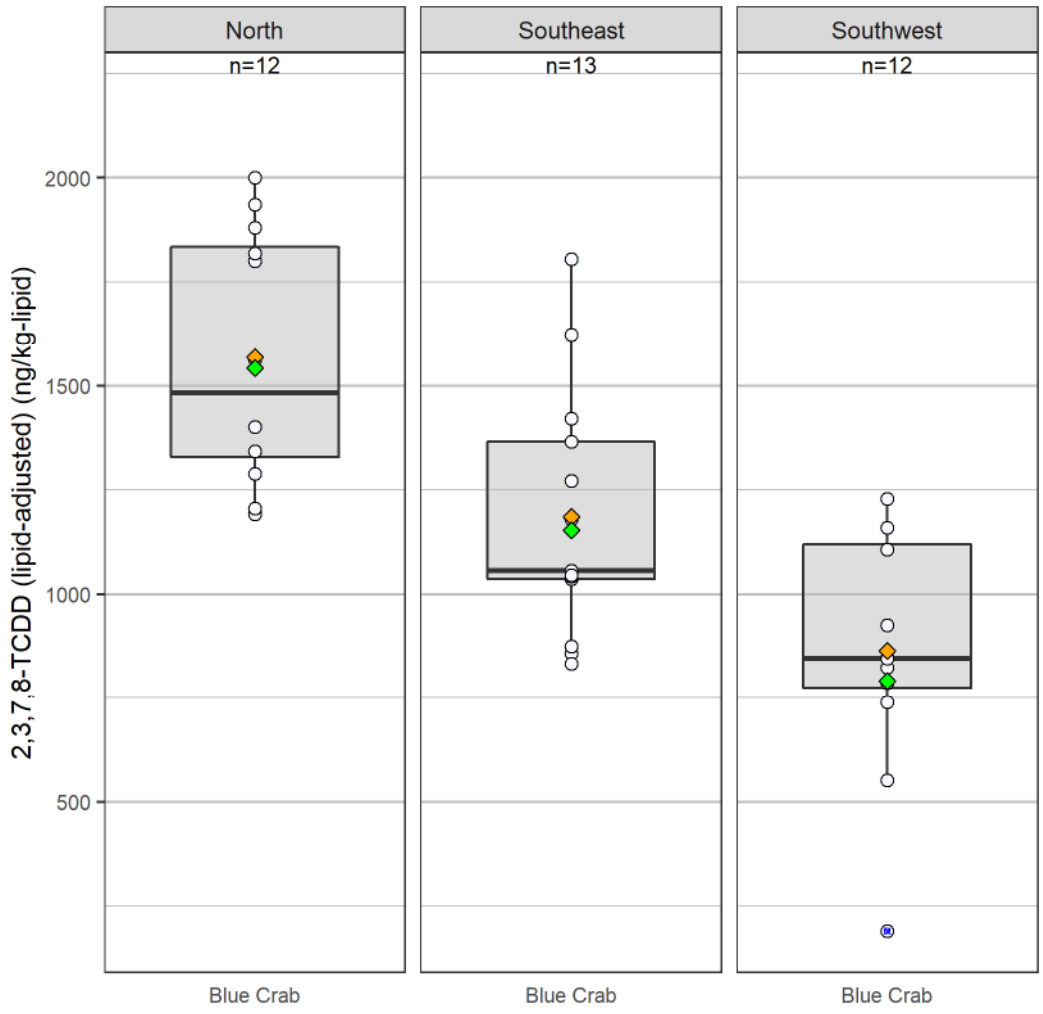
Notes:
n = number of samples
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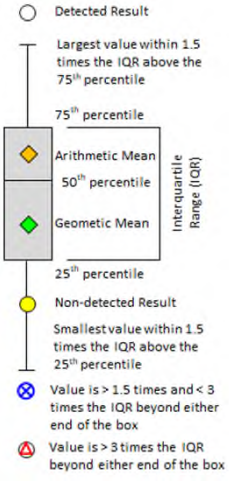
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - ZINC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-74





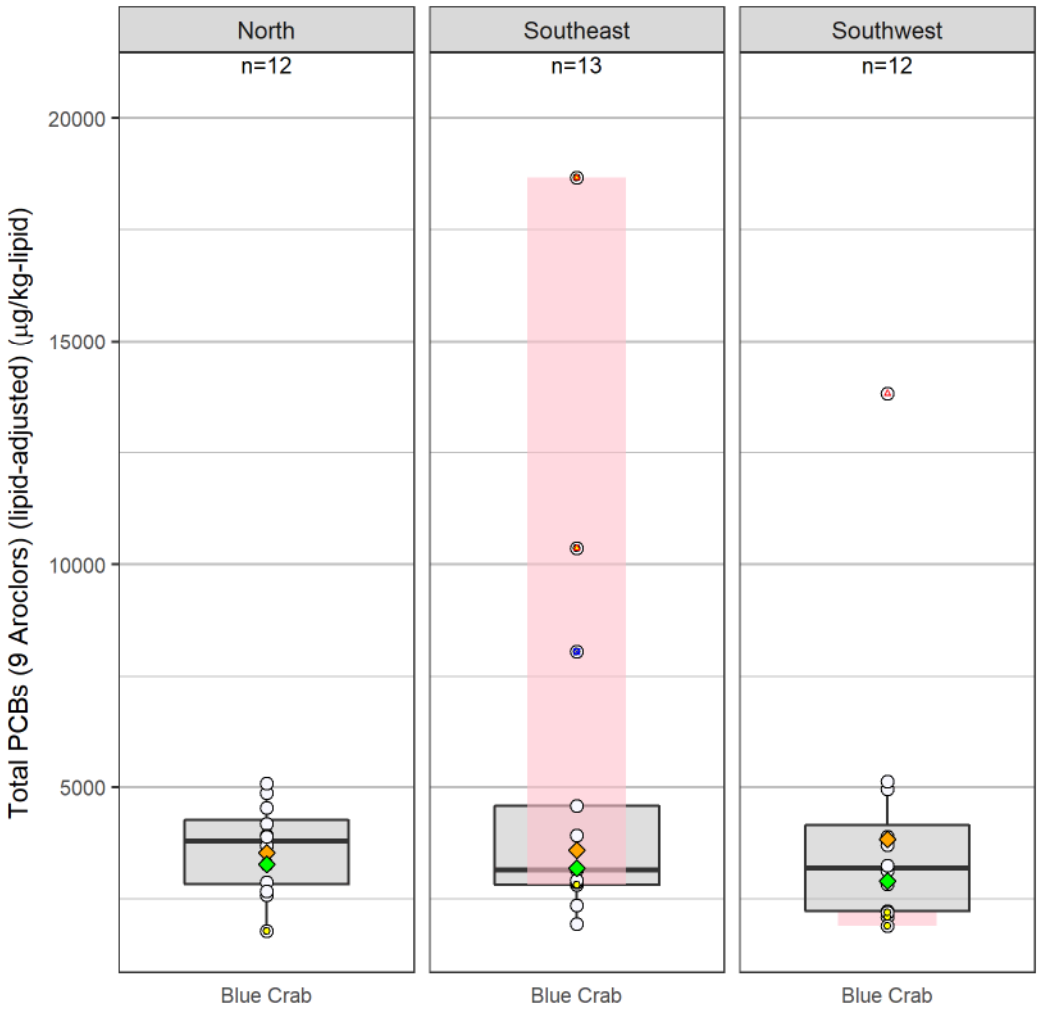
Notes:
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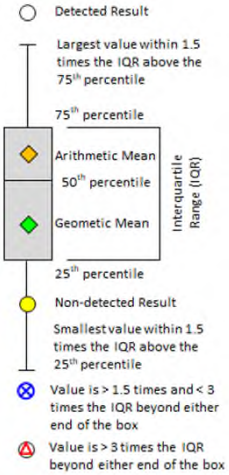
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - 2,3,7,8-TCDD (LIPID-ADJUSTED)

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-75





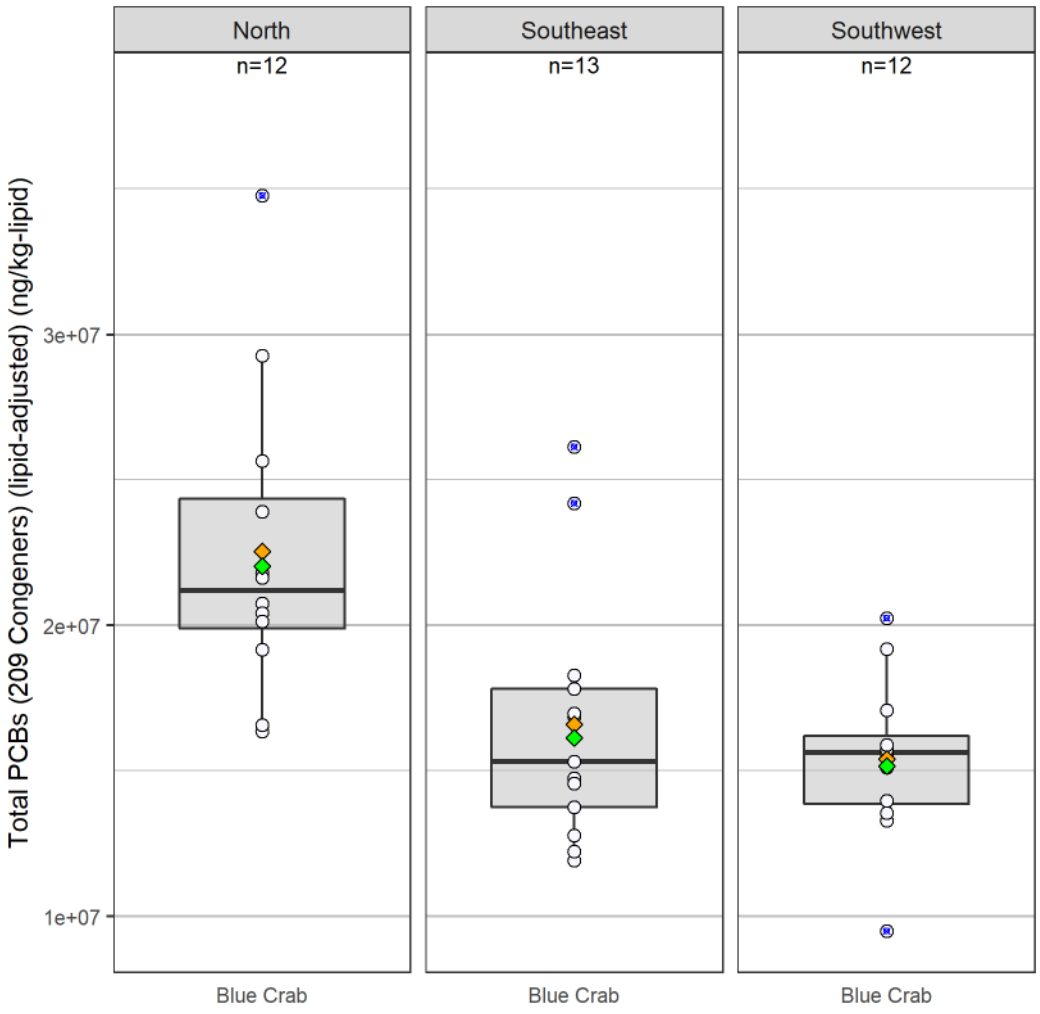
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
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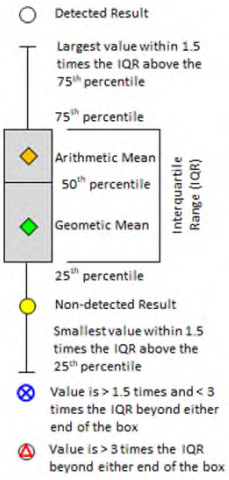
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL PCBS (9 AROCLORS) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-76





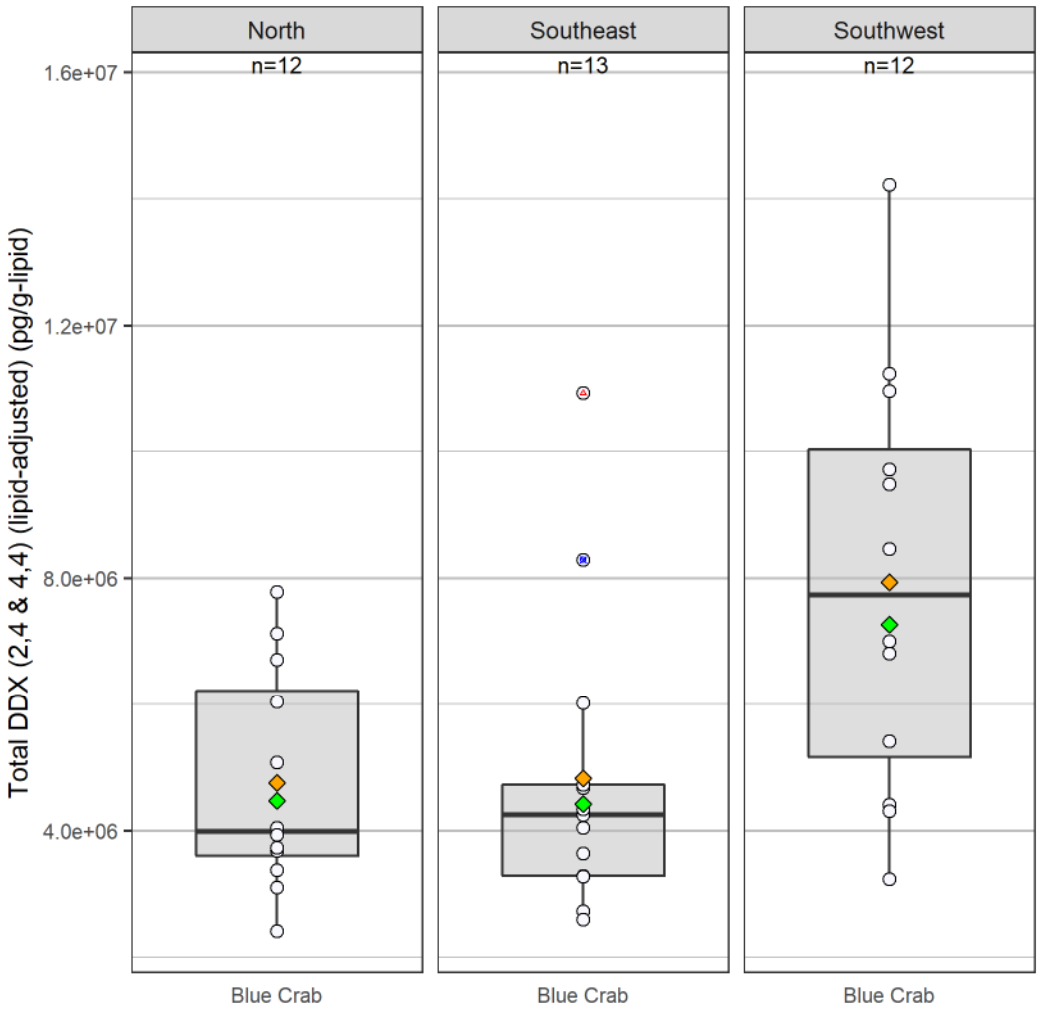
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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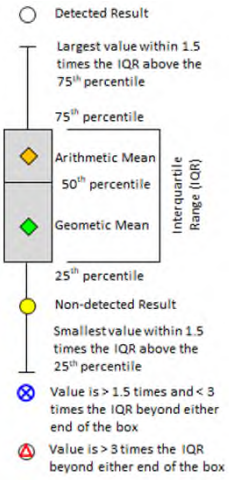
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL PCB (209 CONGENERS) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-77





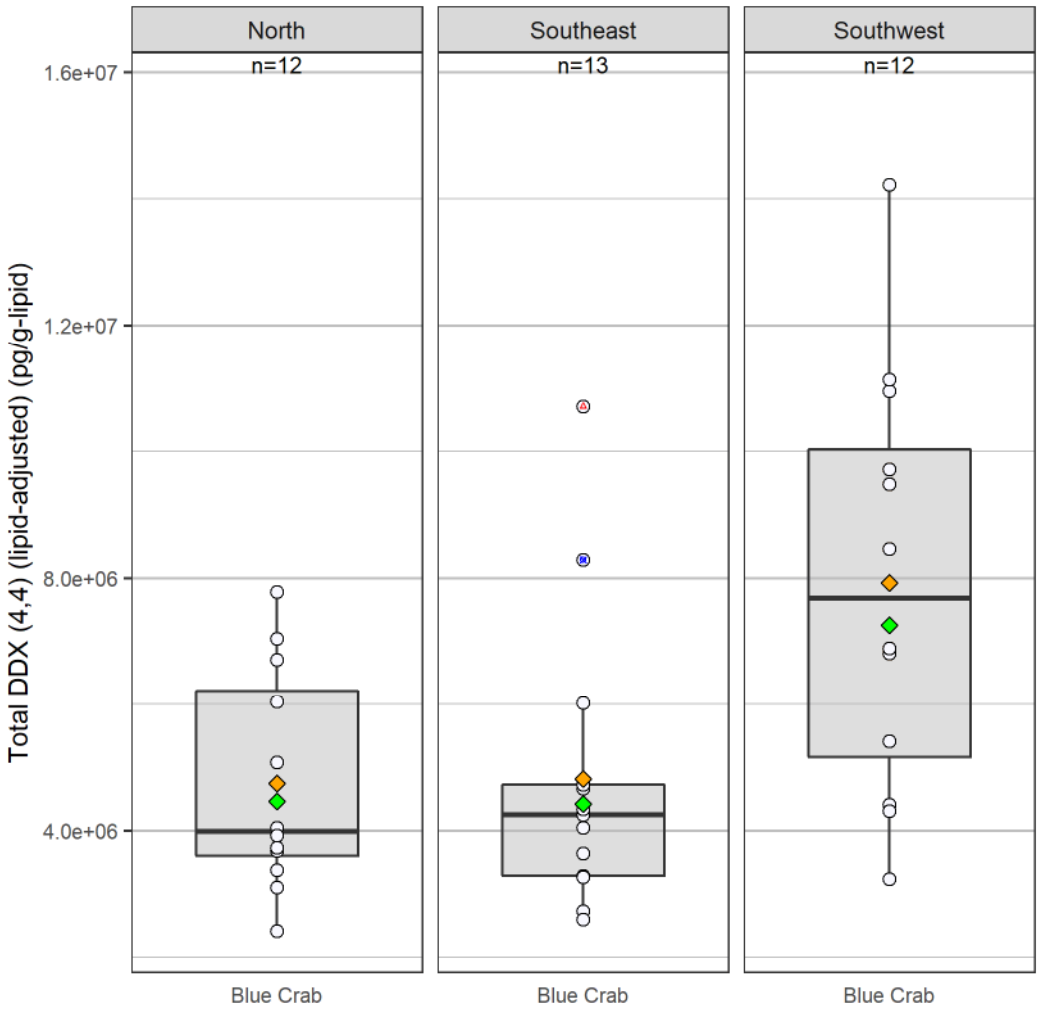
Notes:
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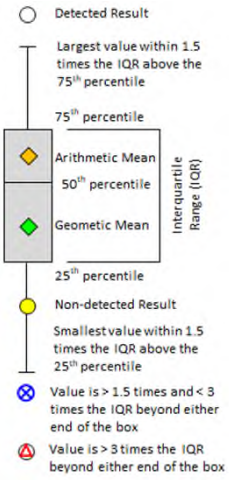
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL DDX (2,4 & 4,4) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-78





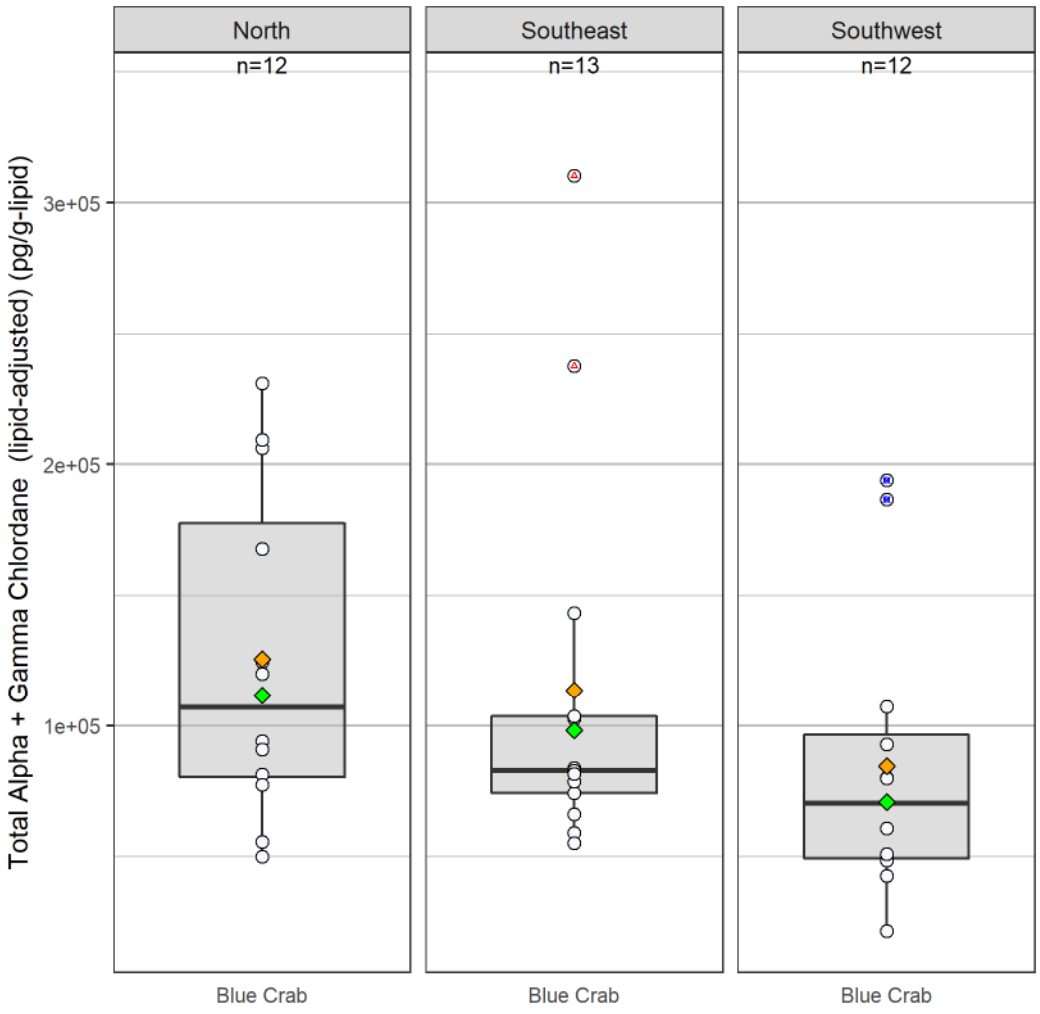
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

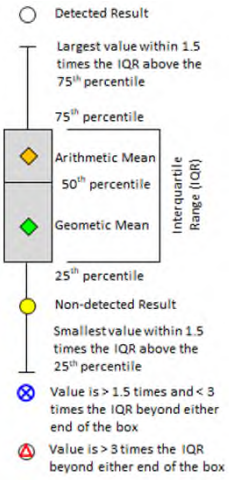
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL DDX (4,4) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-79





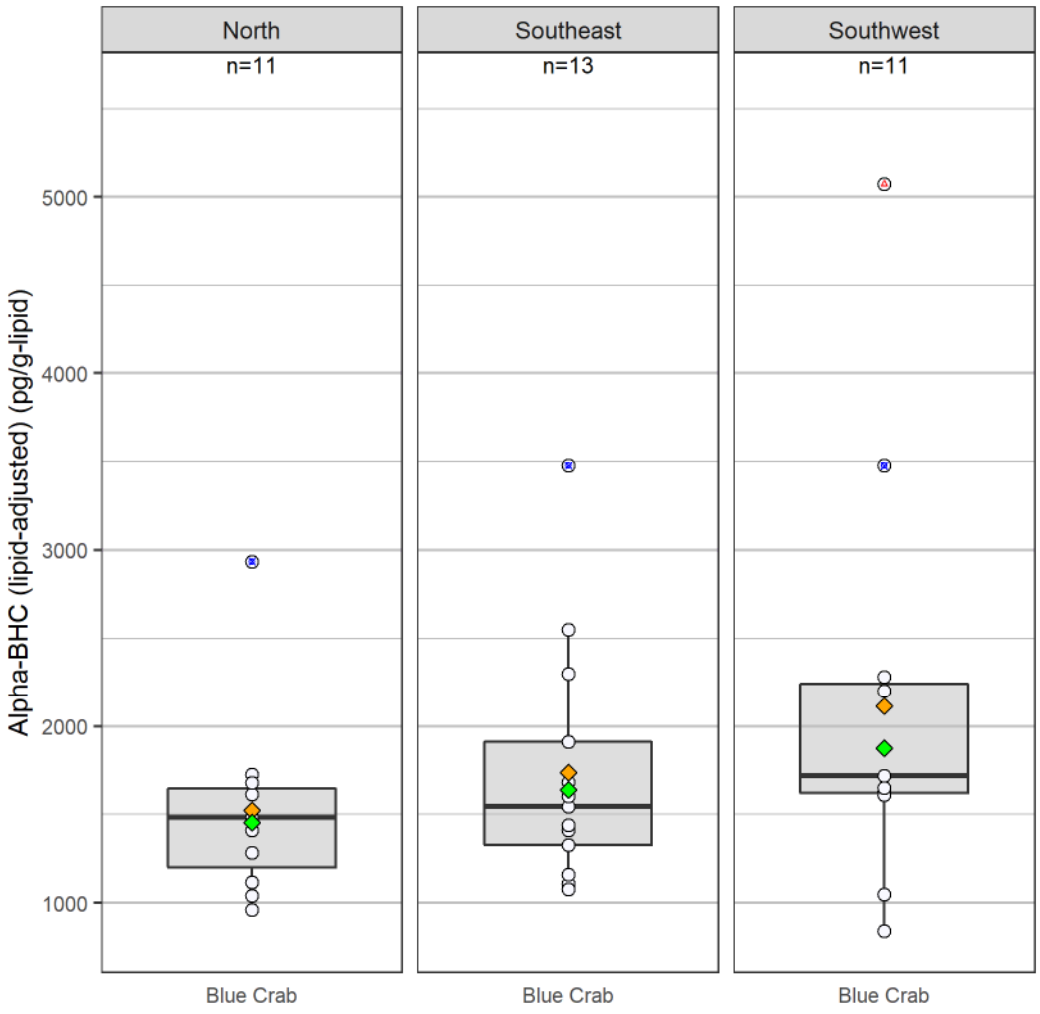
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

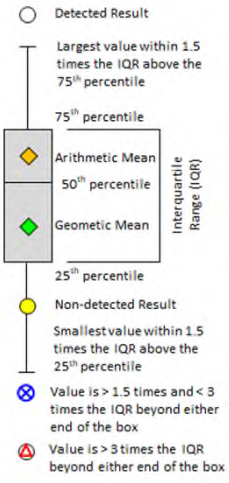
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL ALPHA + GAMMA CHLORDANE (LIPID ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-80





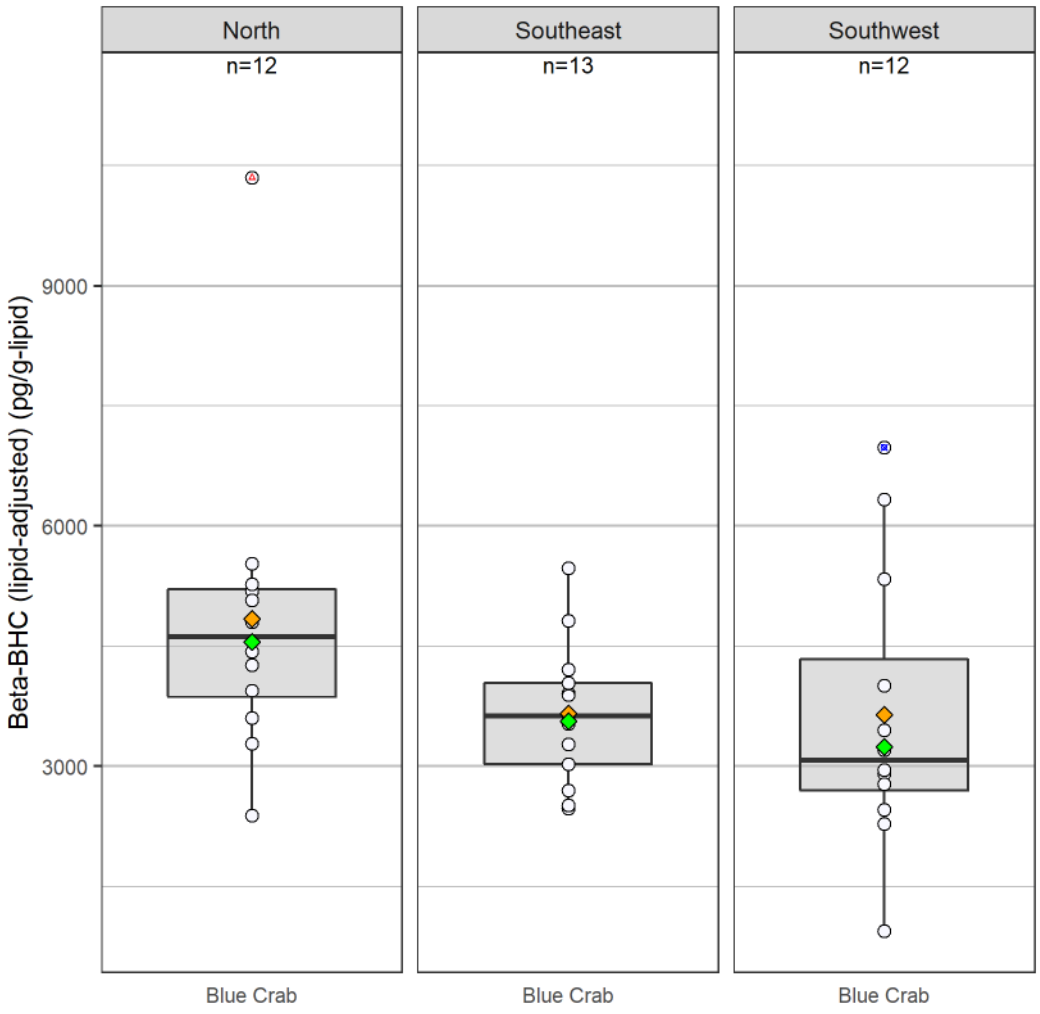
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

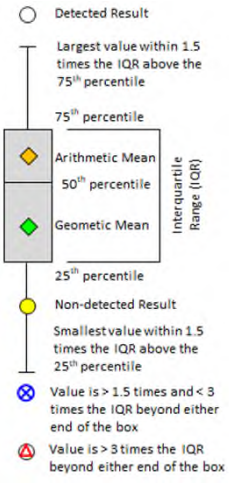
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - ALPHA-BHC (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-81





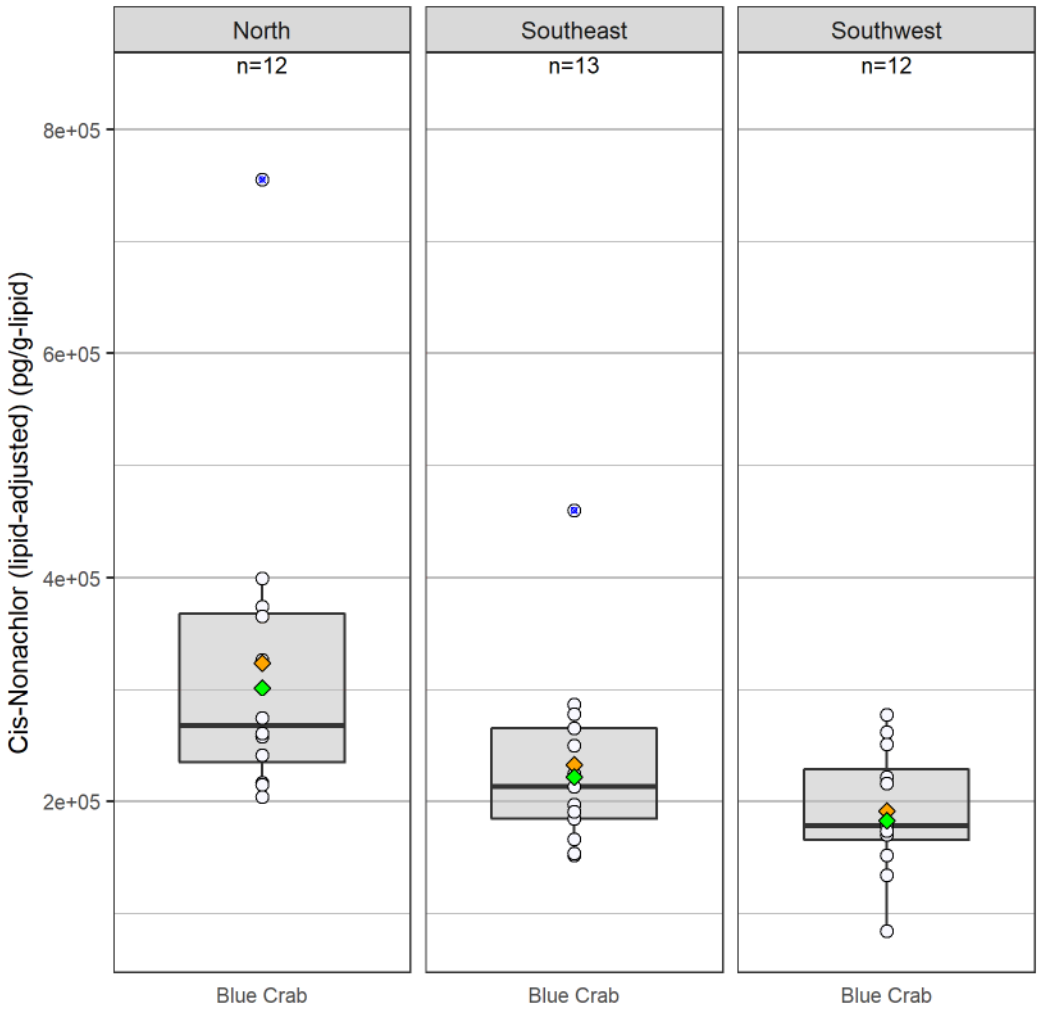
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

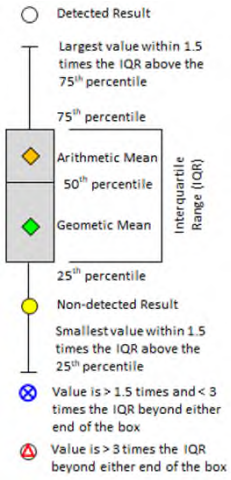
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - BETA-BHC (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-82





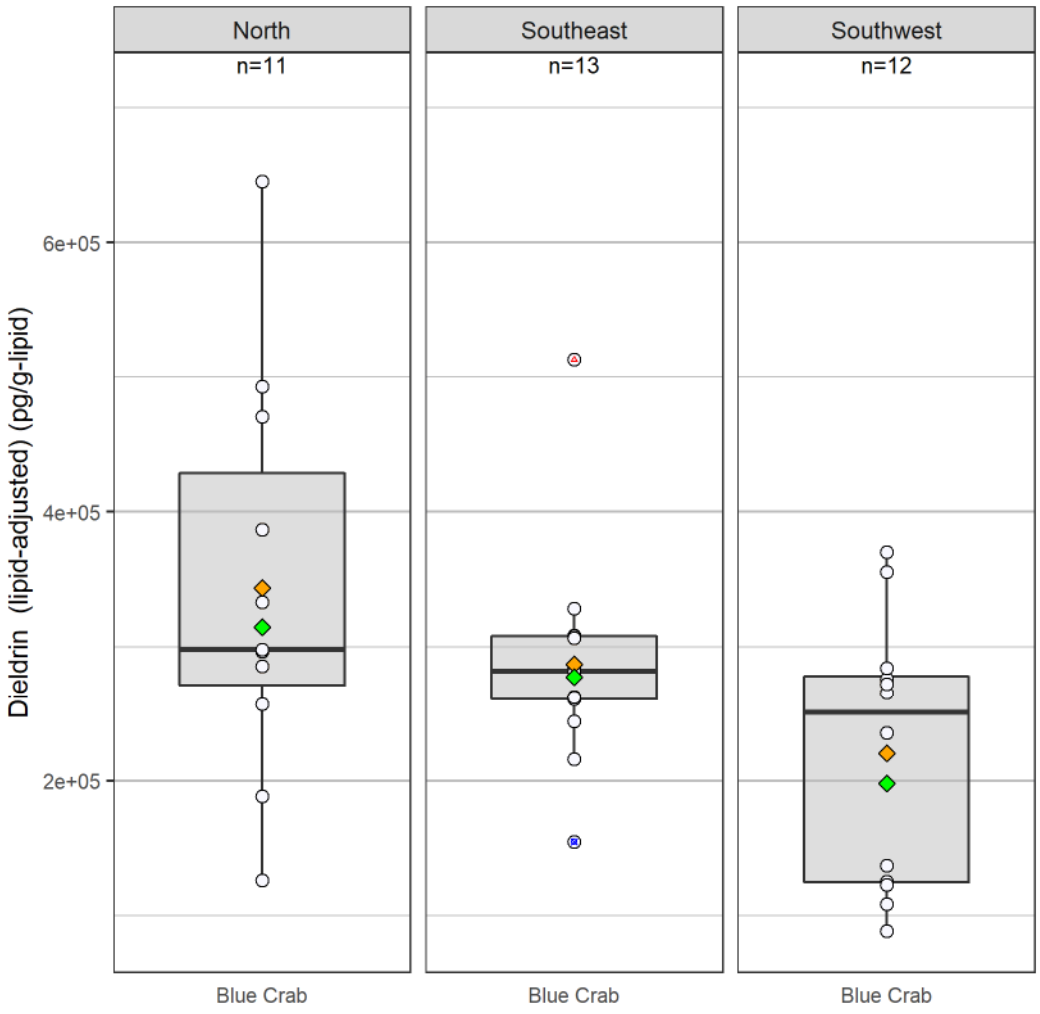
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

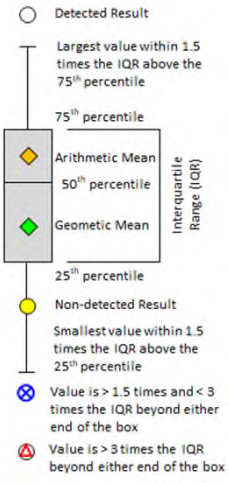
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - CIS-NONACHLOR (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-83





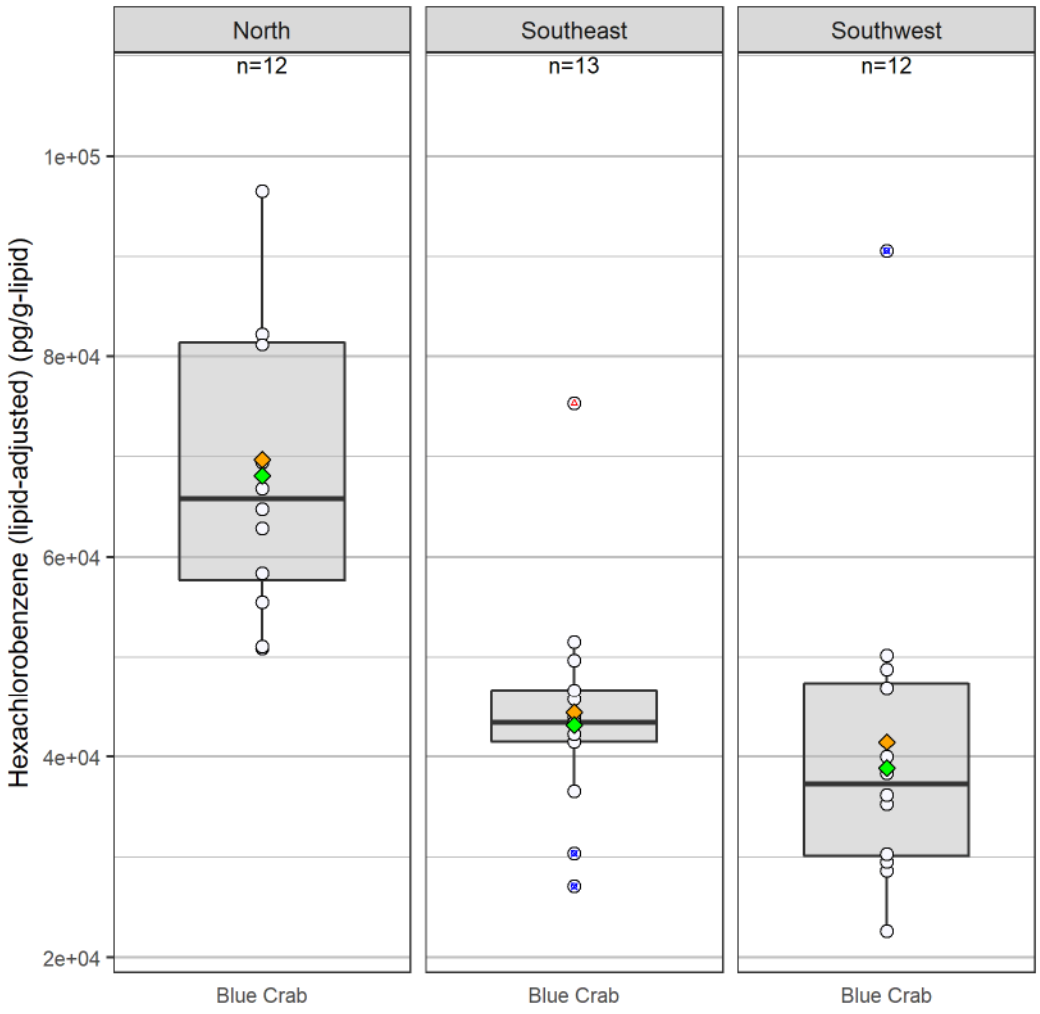
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

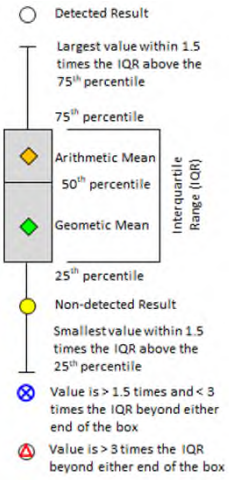
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - DIELDRIN (LIPID-ADJUSTED)

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-84





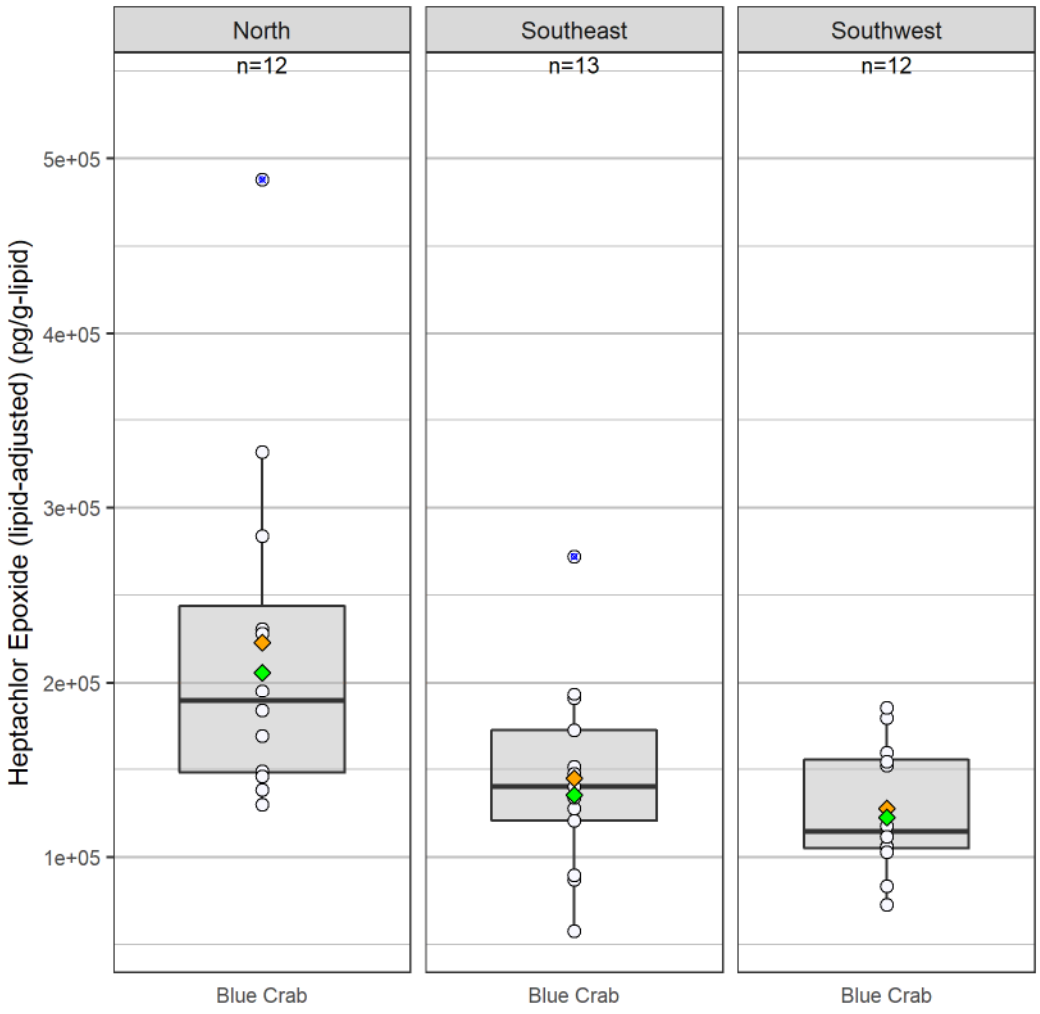
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

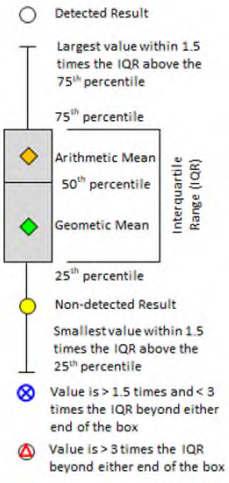
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - HEXACHLOROBENZENE (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-85





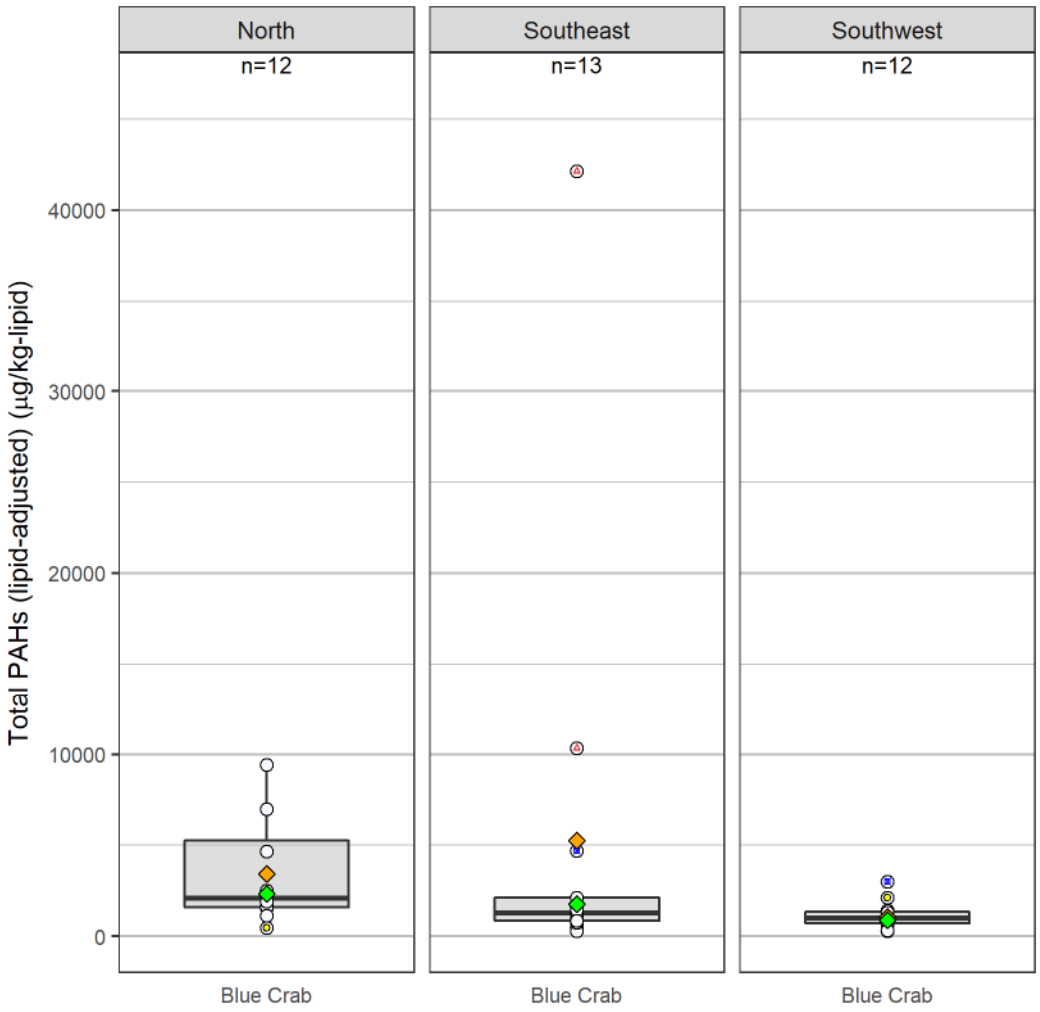
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

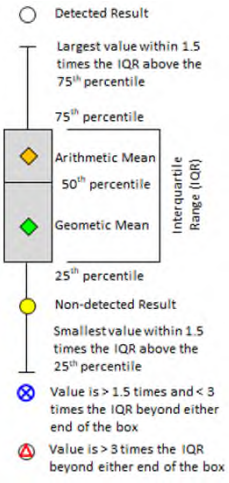
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - HEPTACHLOR EPOXIDE (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-86





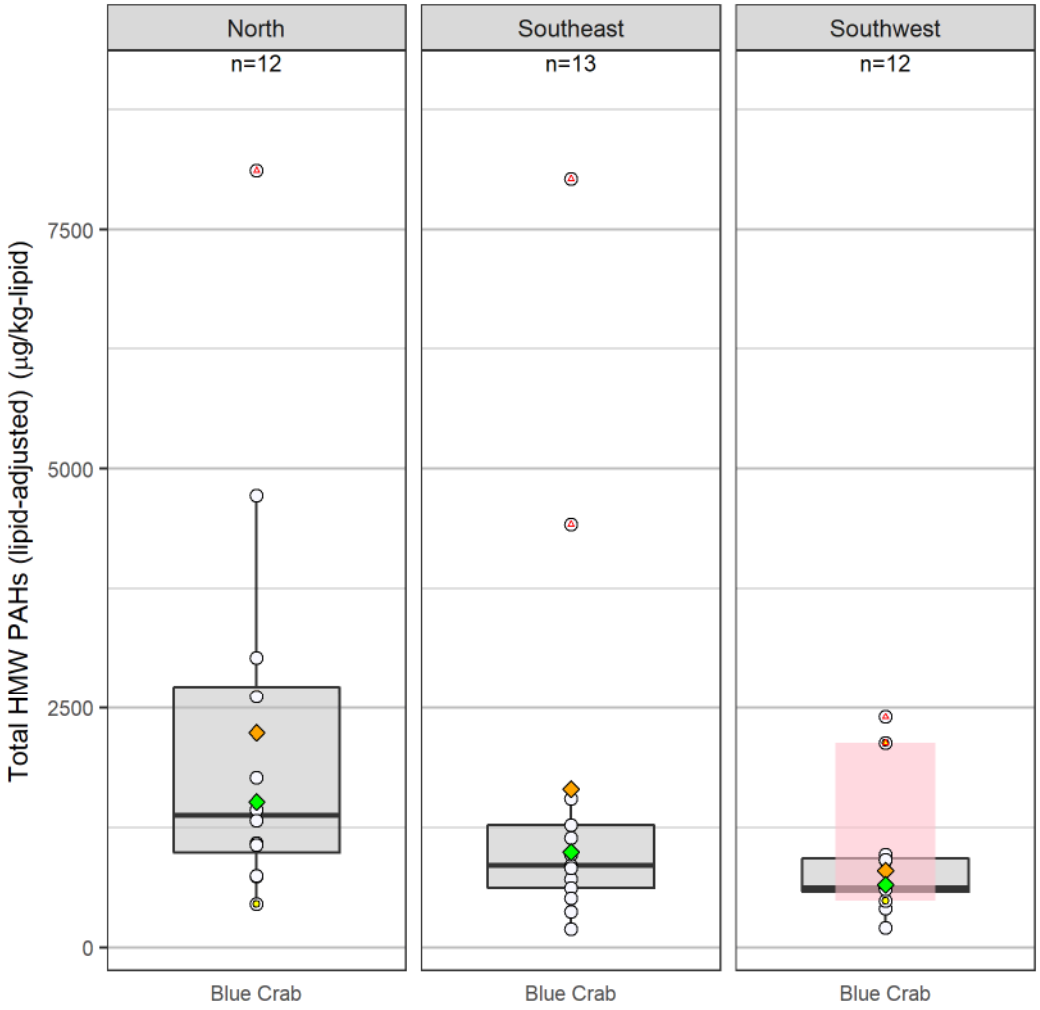
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

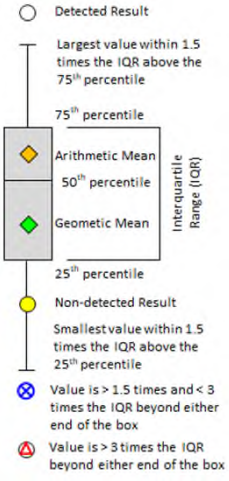
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-87





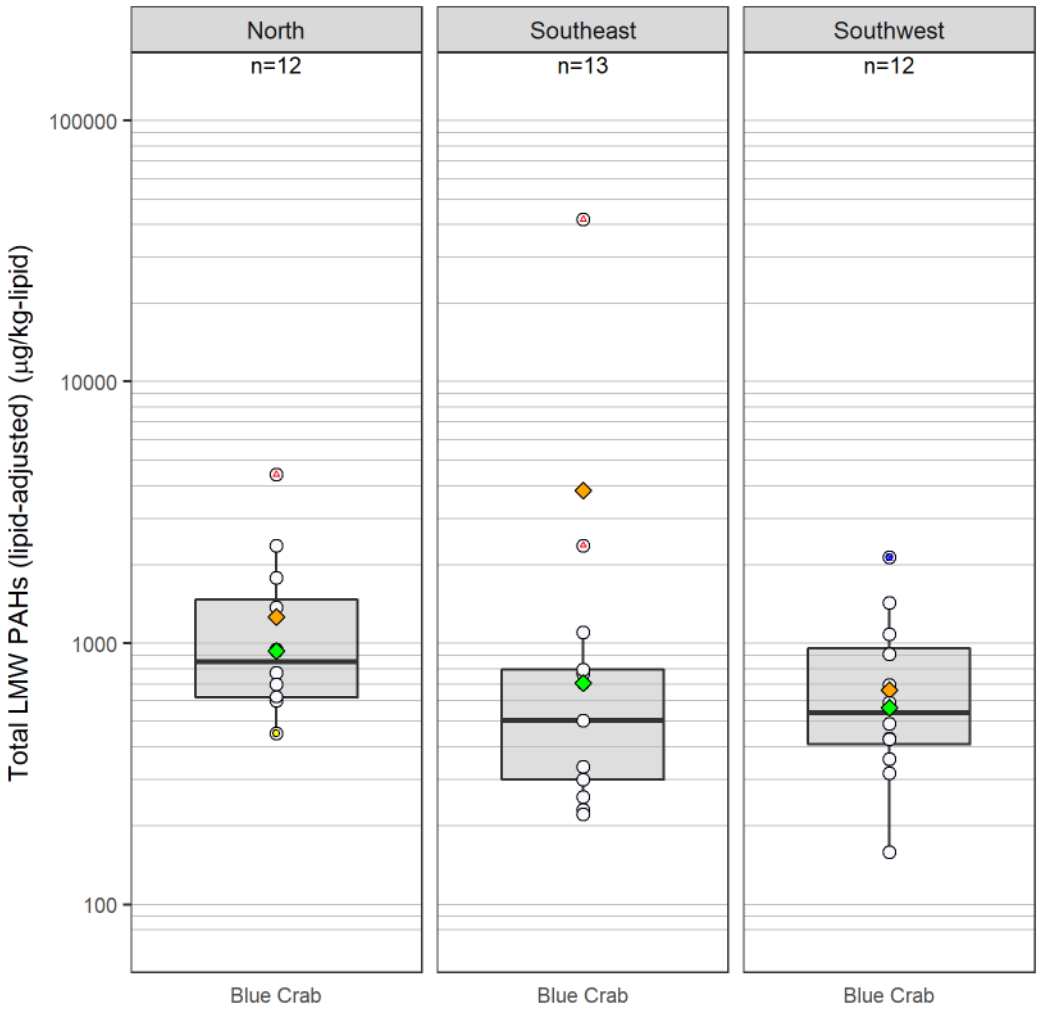
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

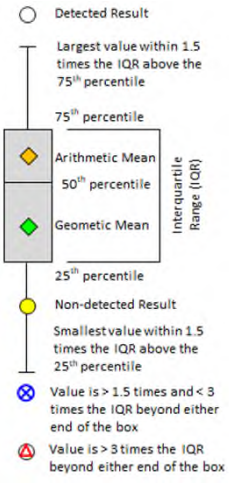
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL HMW PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-88





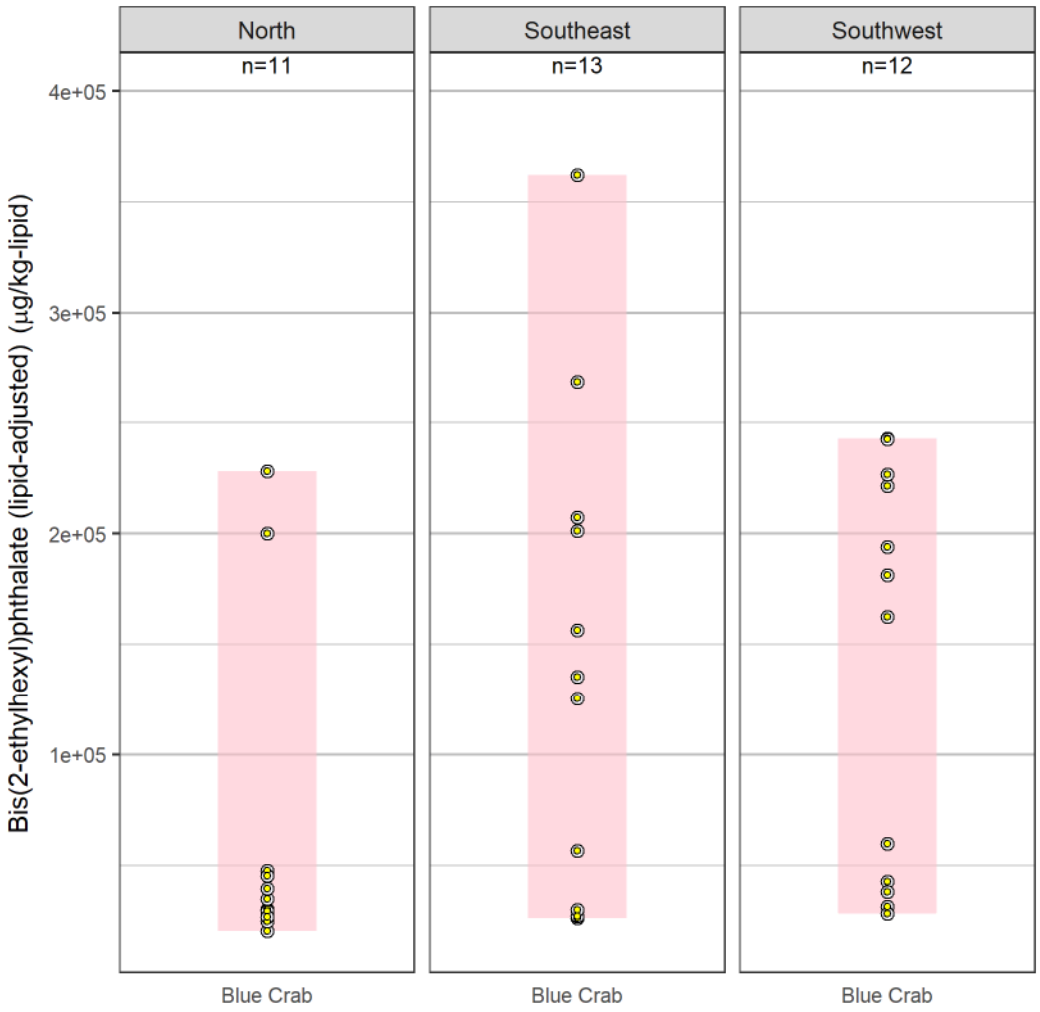
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

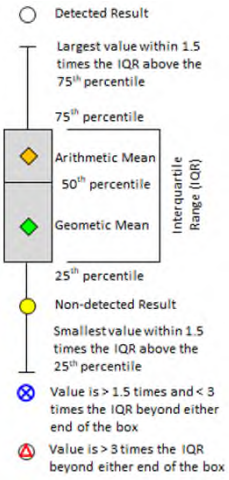
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

WHOLE BODY BLUE CRAB RESULTS - TOTAL LMW PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-89





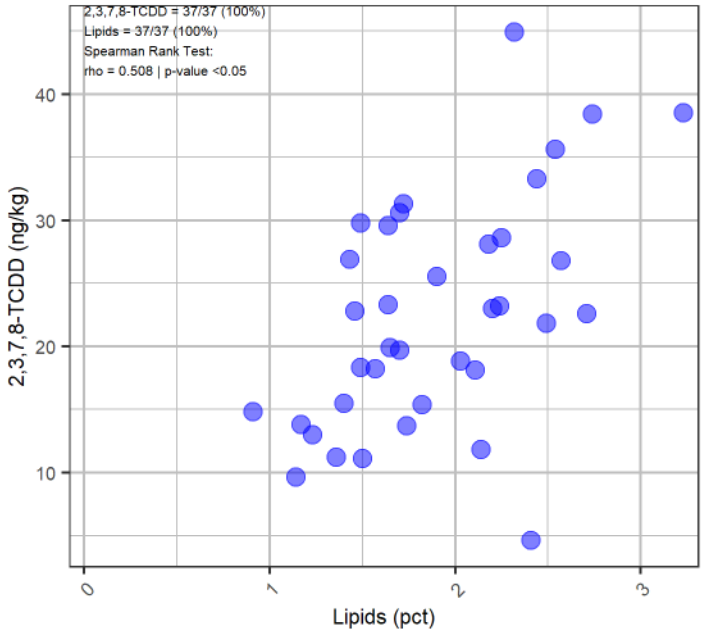
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

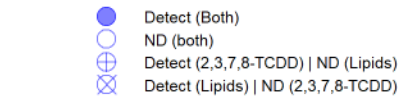
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

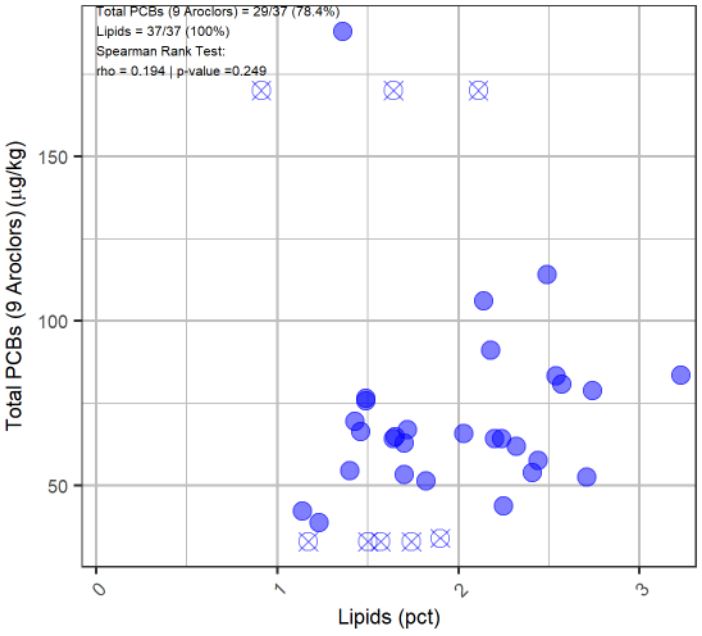
WHOLE BODY BLUE CRAB RESULTS - BIS(2-ETHYLHEXYL)PHTHALATE (LIPID-ADJUSTED)

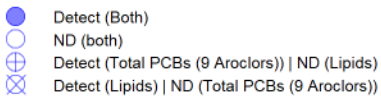
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

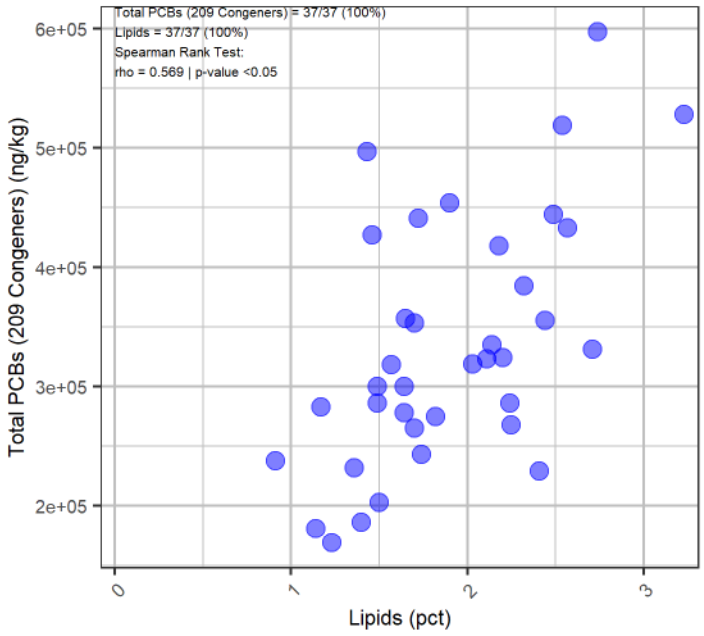
FIGURE
I-90

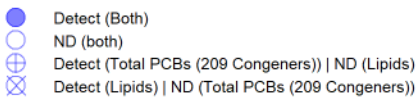


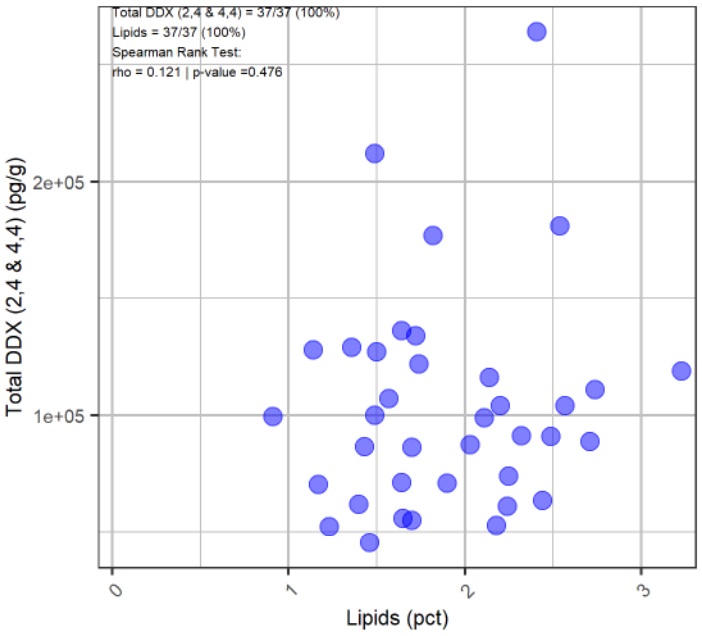


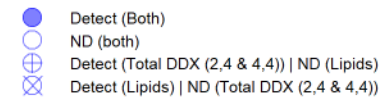












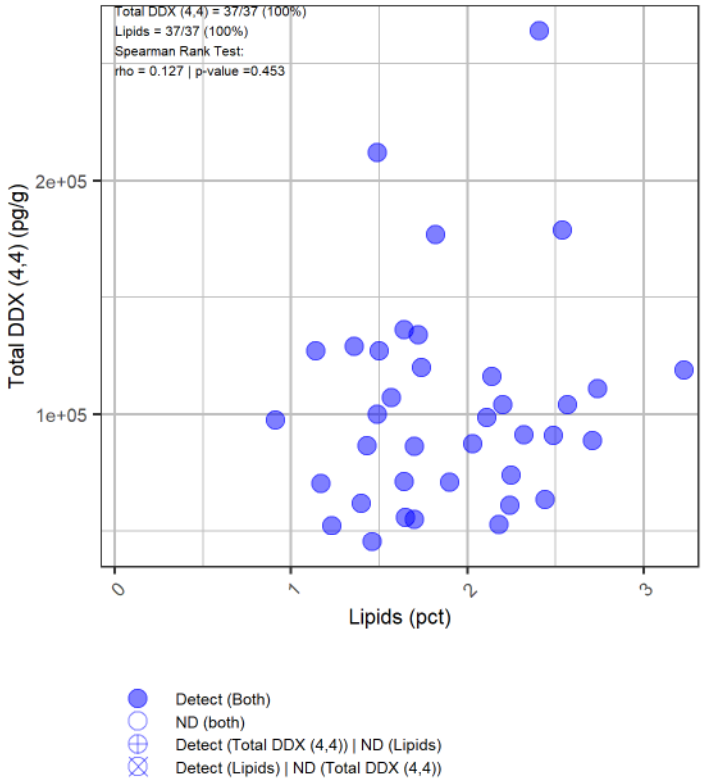
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

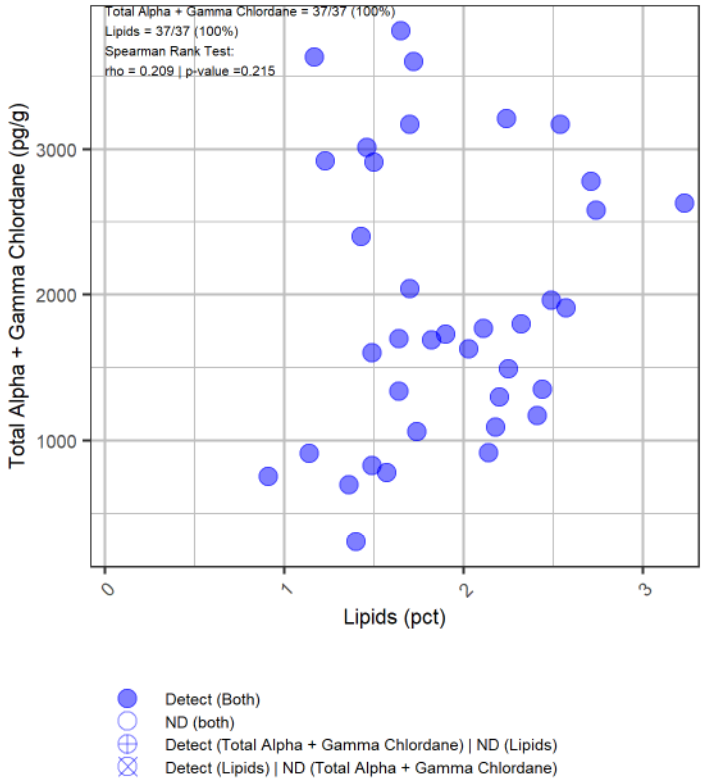
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

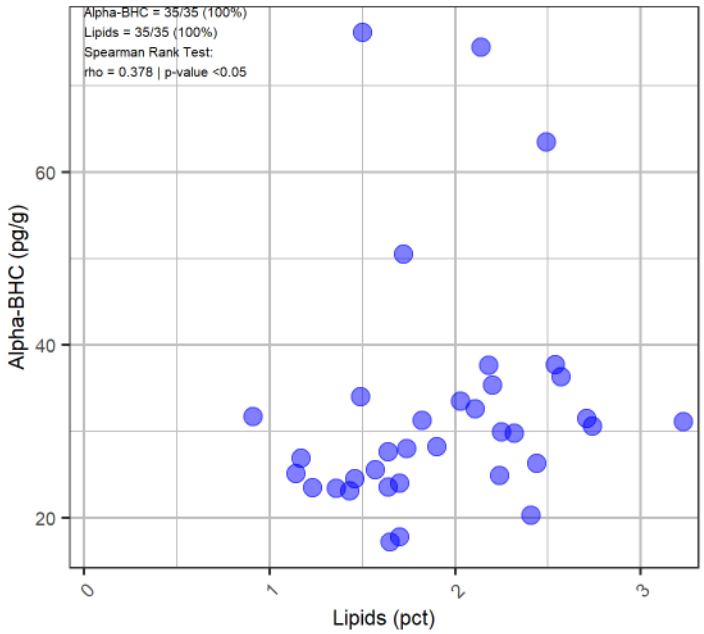
LIPID CORRELATION - BLUE CRAB

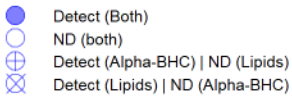
OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

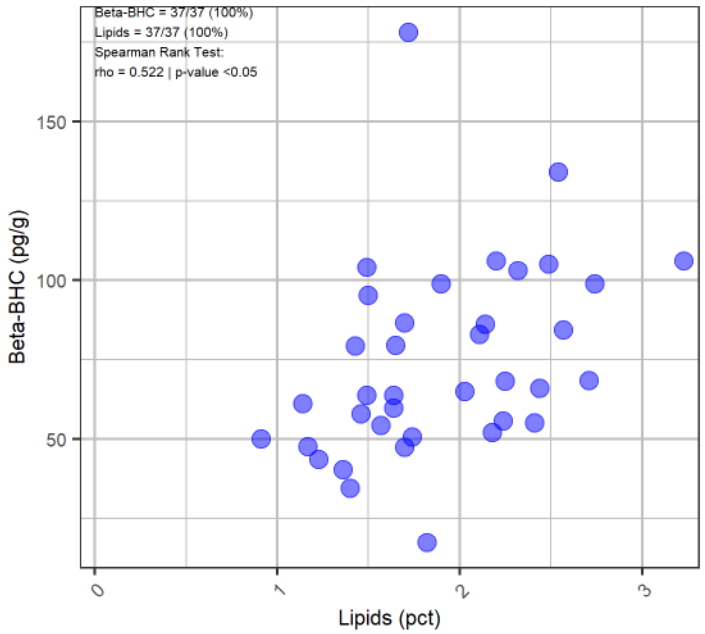
FIGURE
I-91

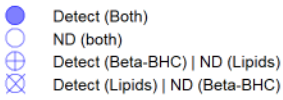












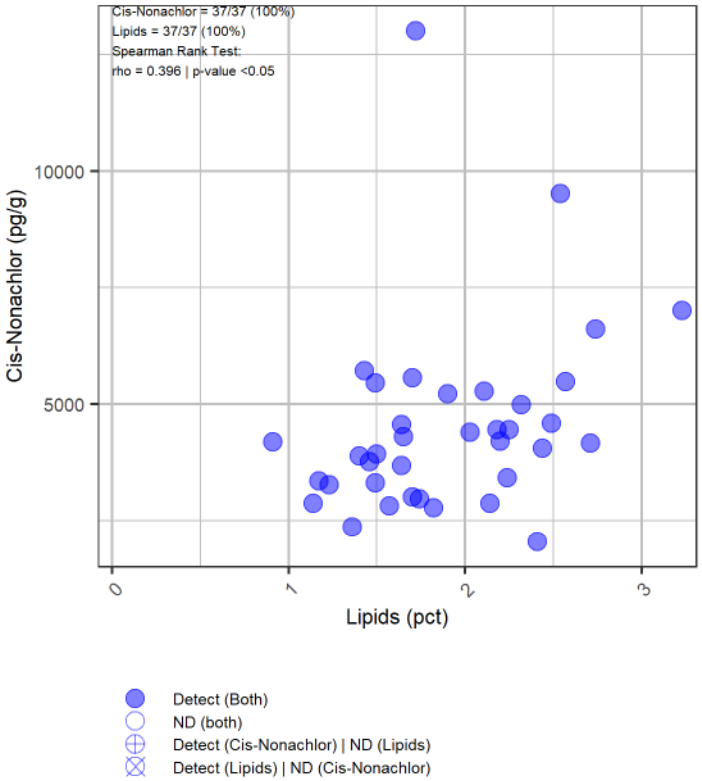
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

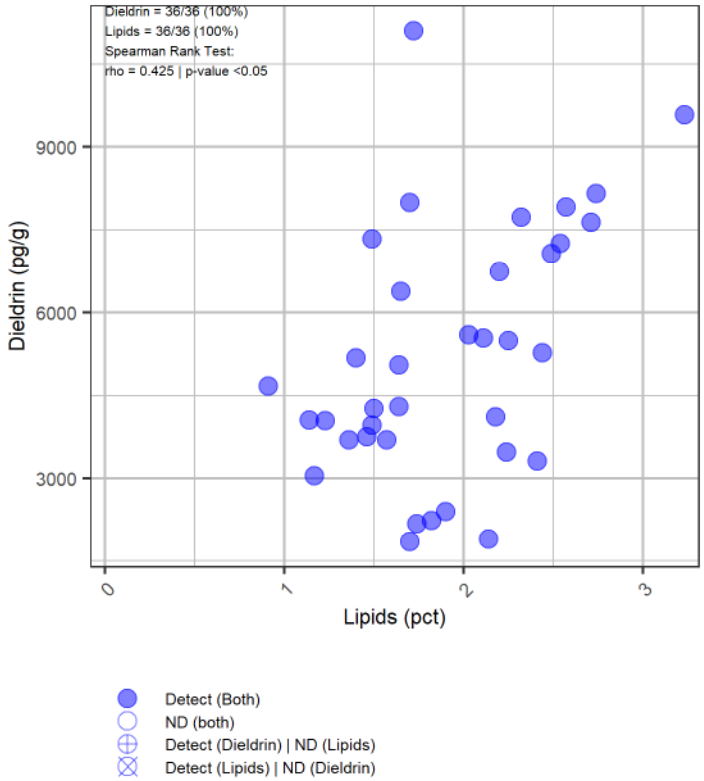
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

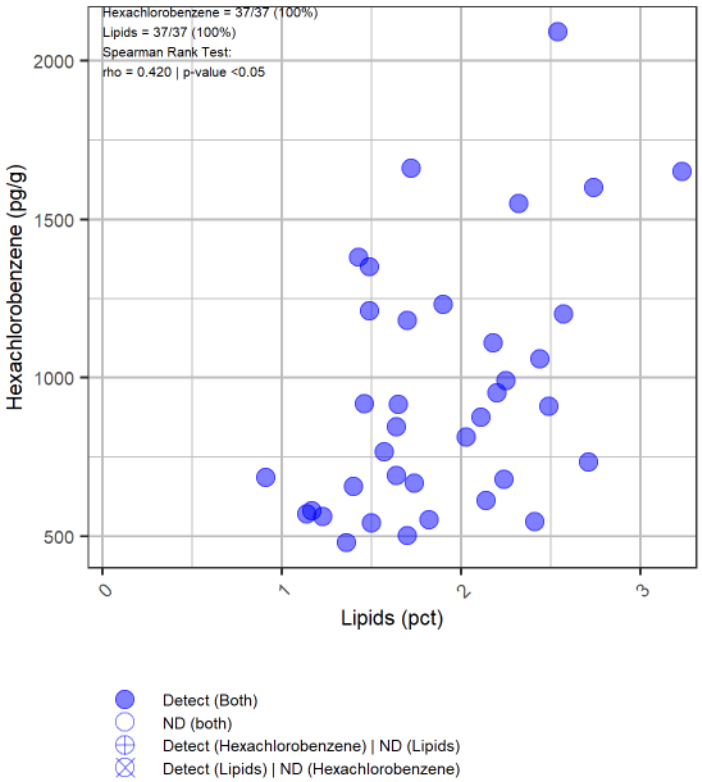
LIPID CORRELATION - BLUE CRAB

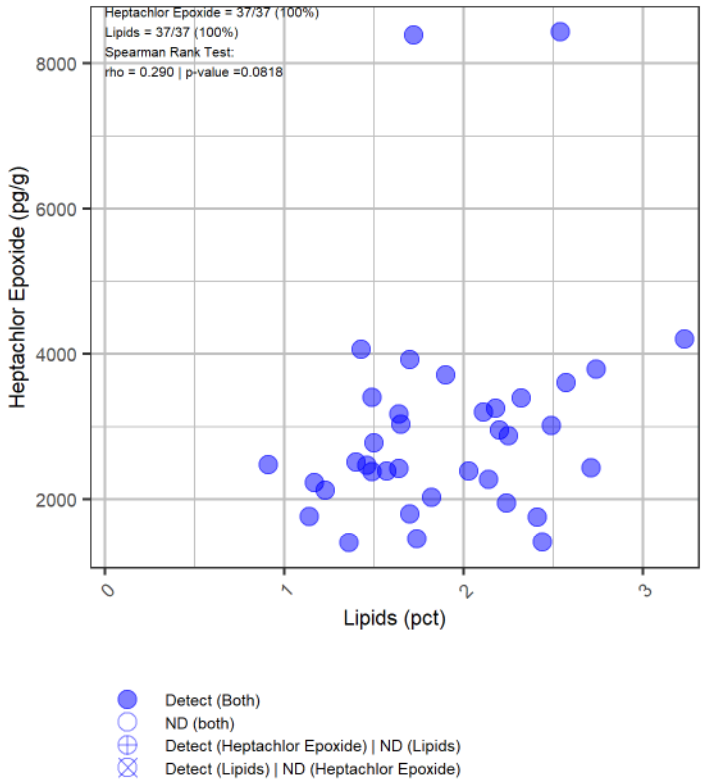
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-92









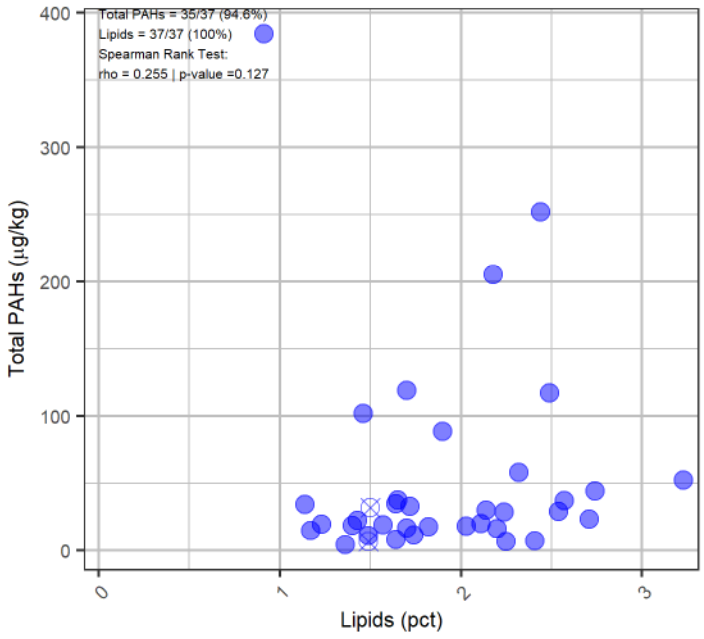
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

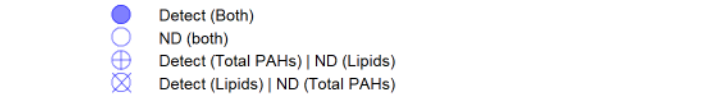
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

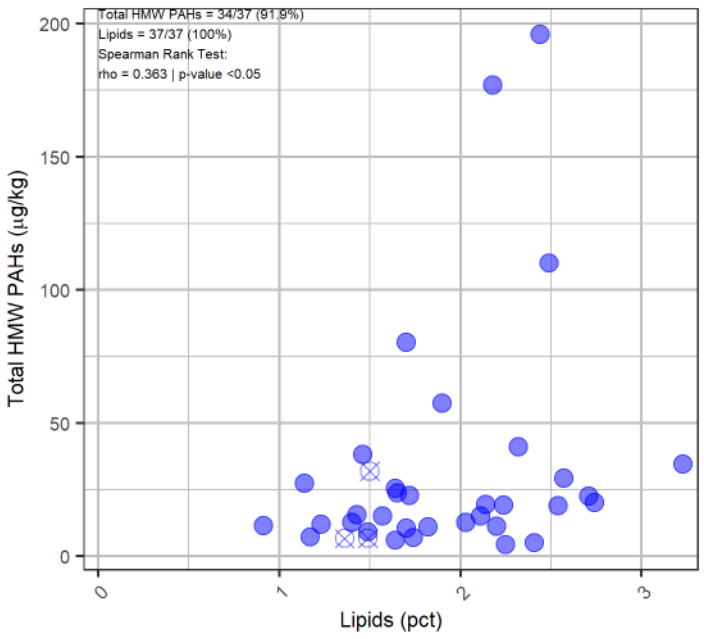
LIPID CORRELATION - BLUE CRAB

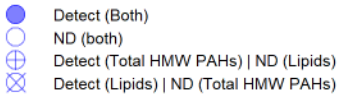
Glenn Springs Holdings, Inc.
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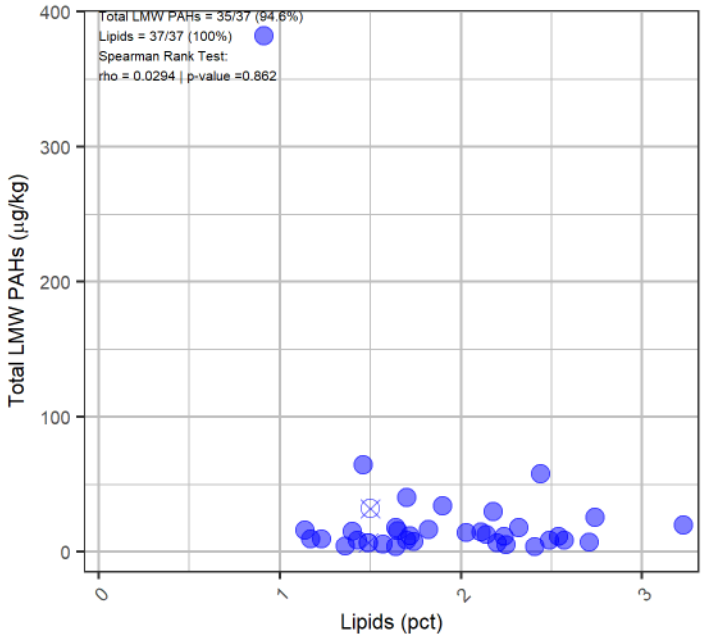
FIGURE
I-93

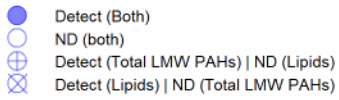












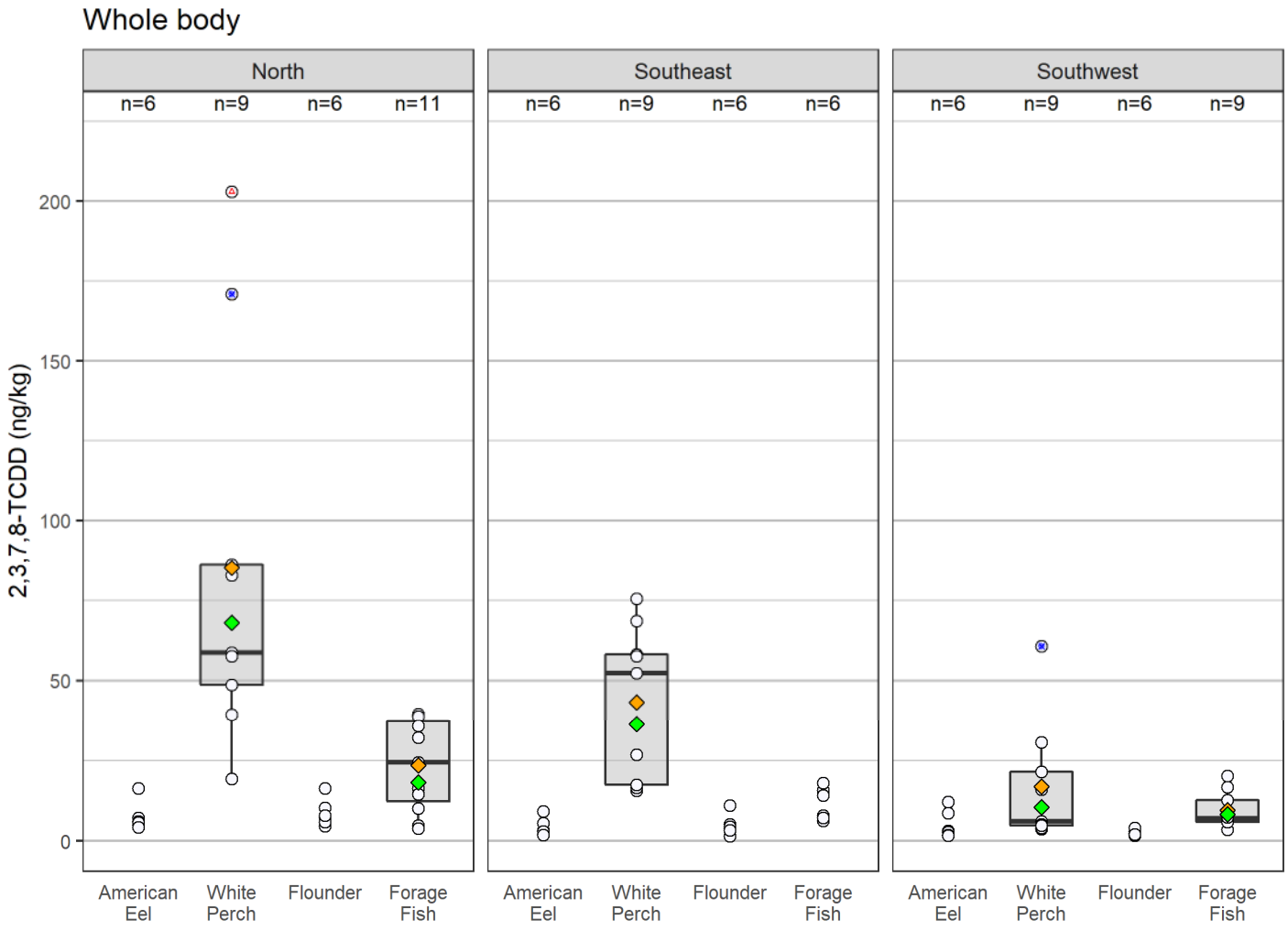
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

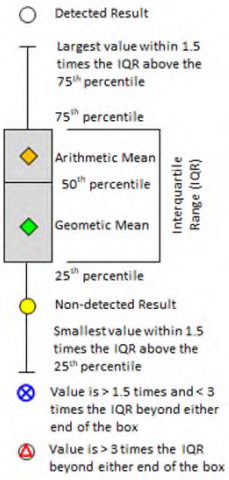
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

LIPID CORRELATION - BLUE CRAB

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-94





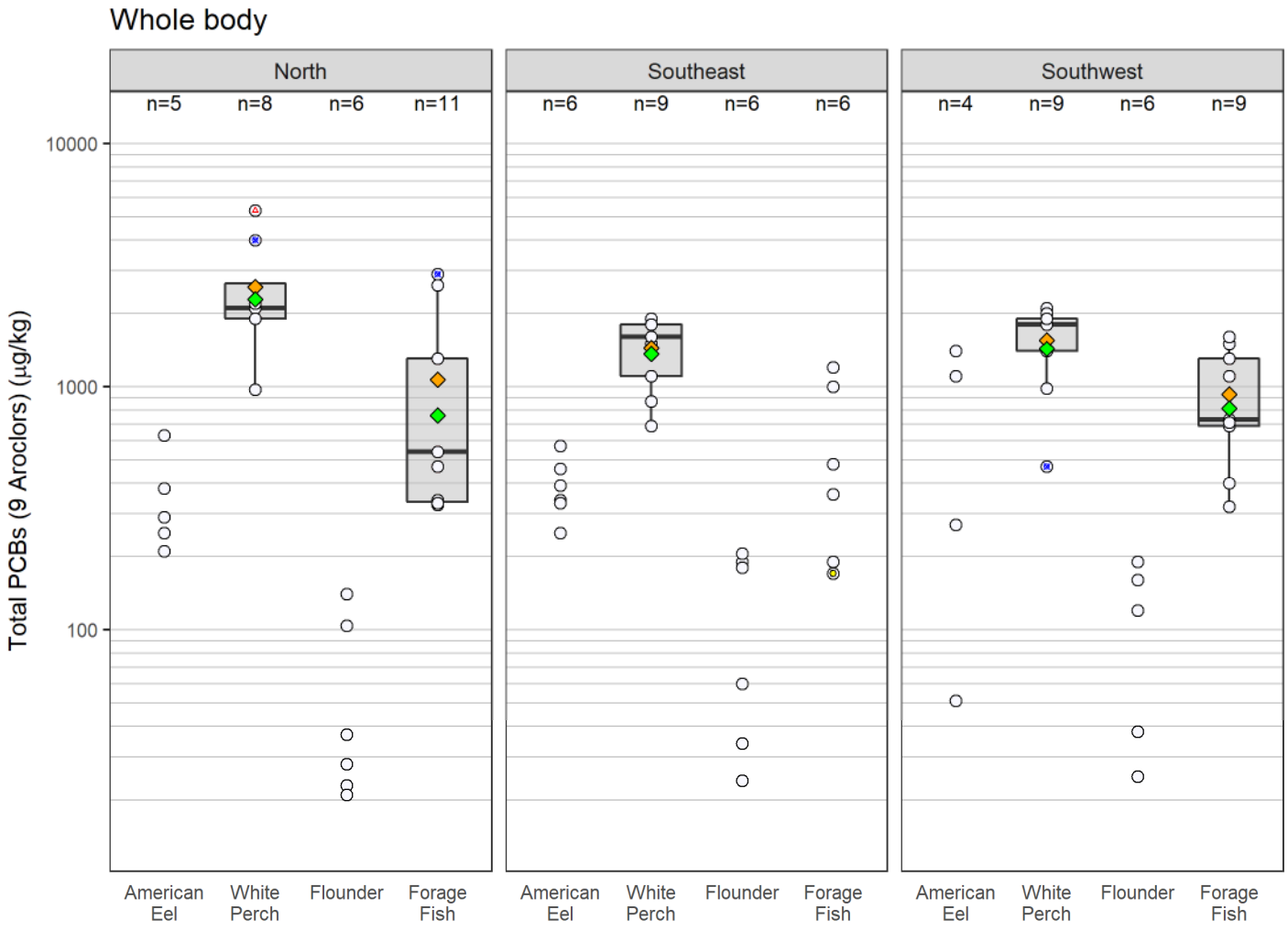
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

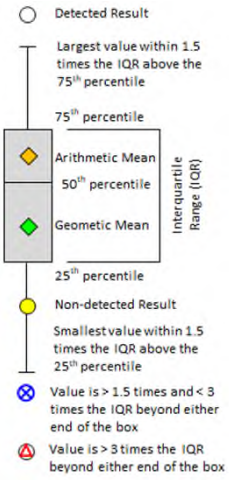
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - 2,3,7,8-TCDD

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-95





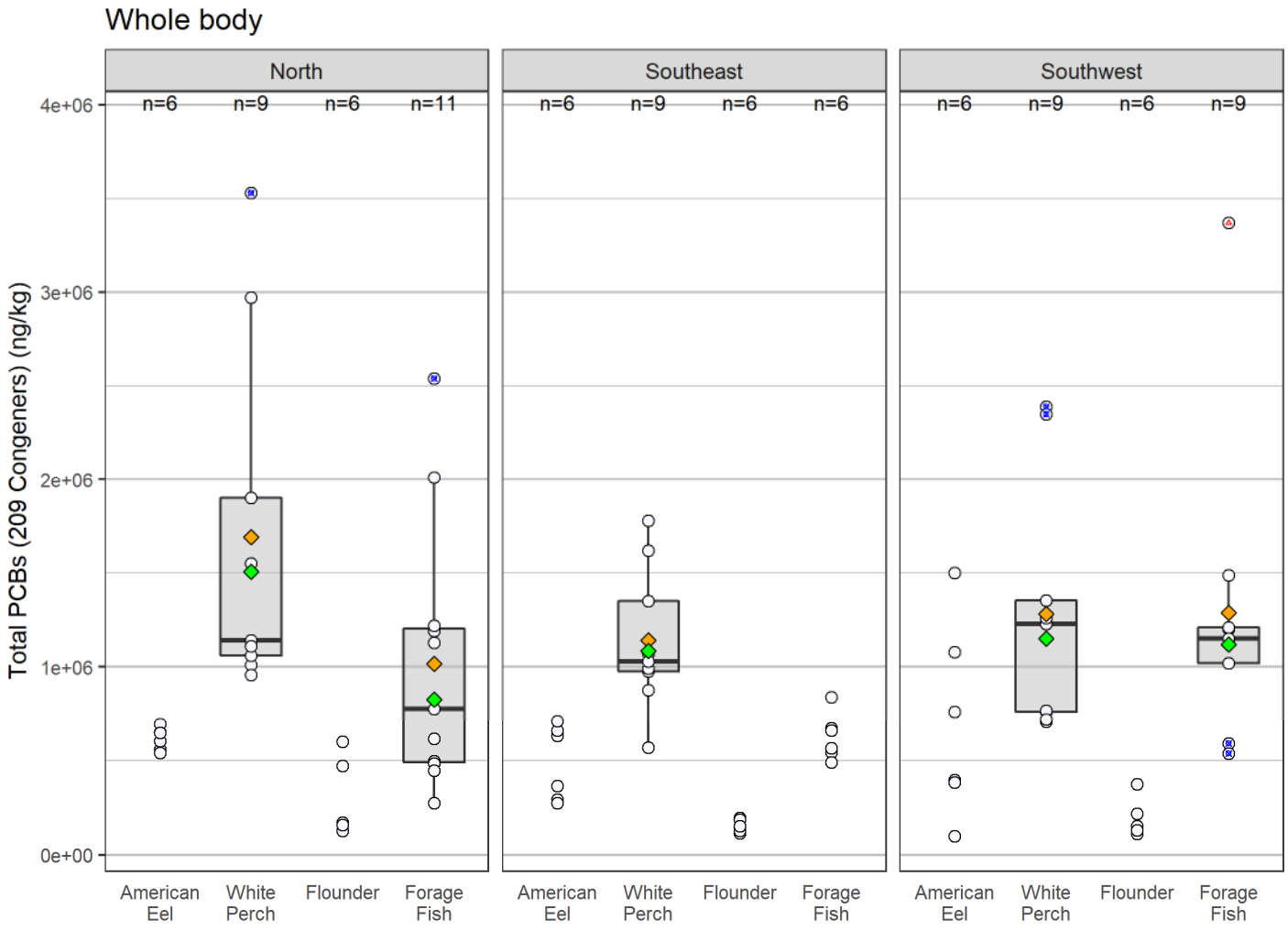
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

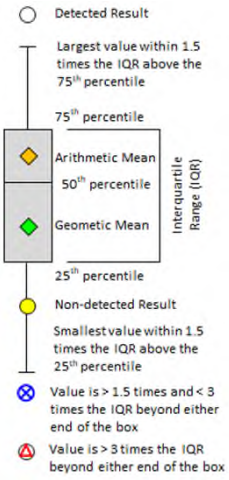
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL PCBS (9 AROCLORS)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-96





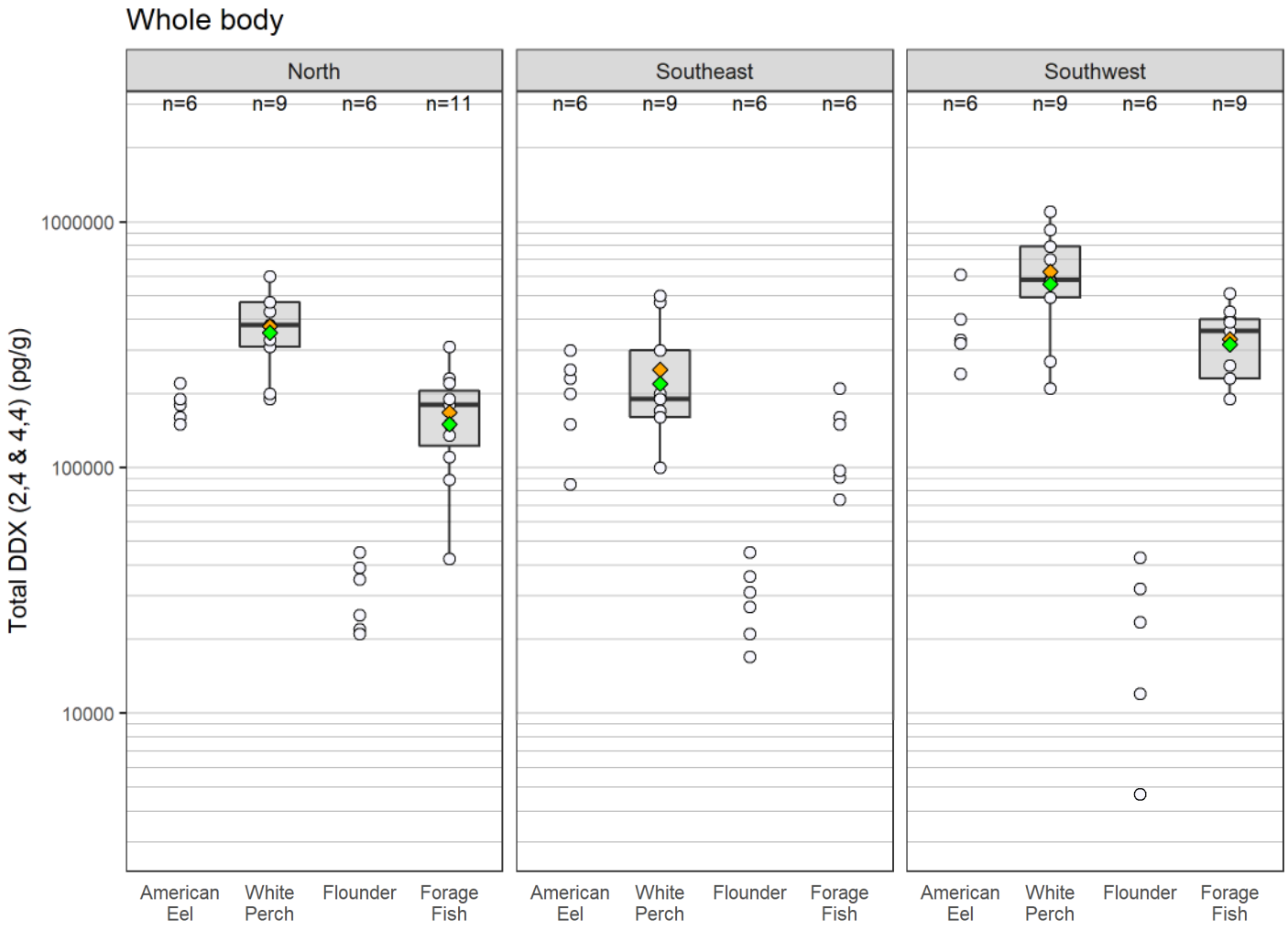
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

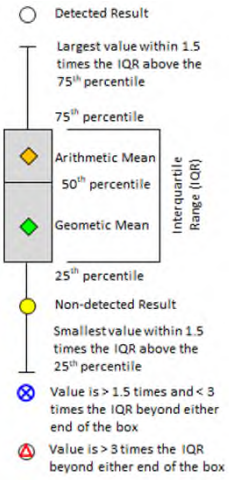
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL PCB (209 CONGENERS)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-97





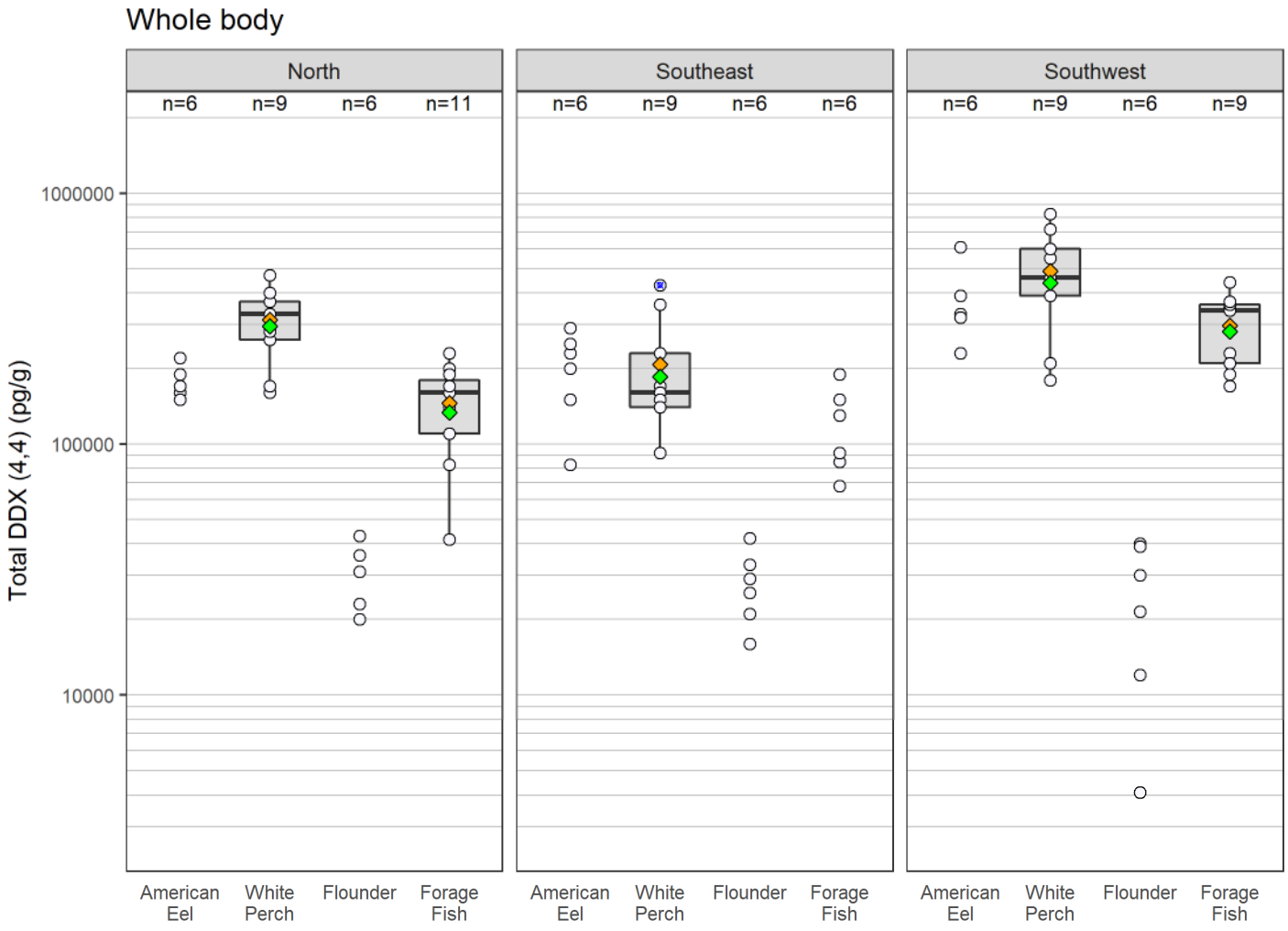
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

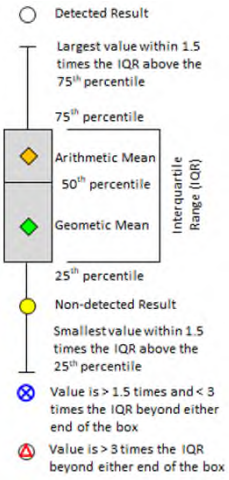
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL DDX (2,4 & 4,4)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-98





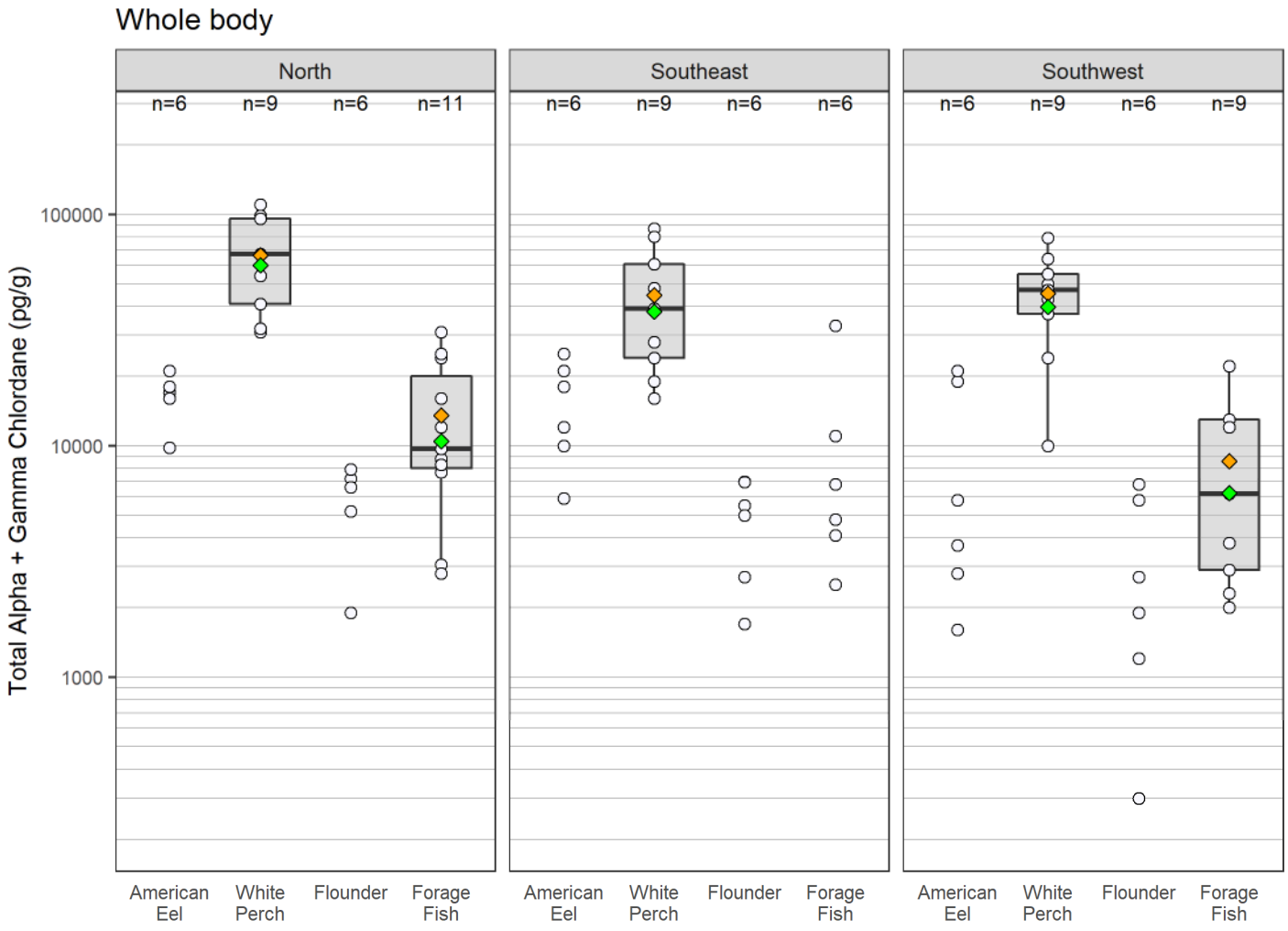
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

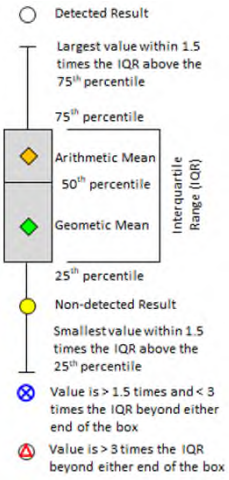
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL DDX (4,4)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-99





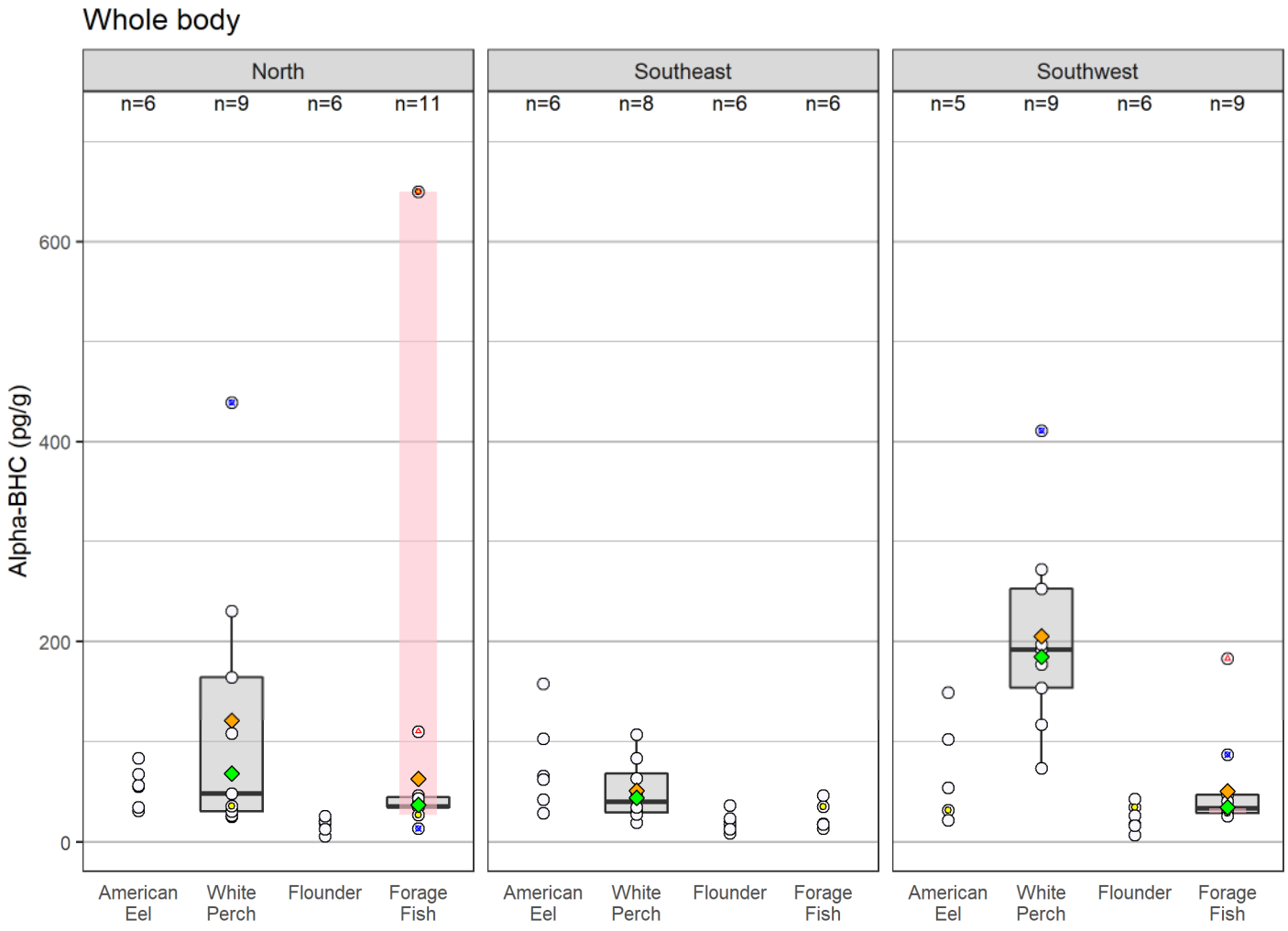
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

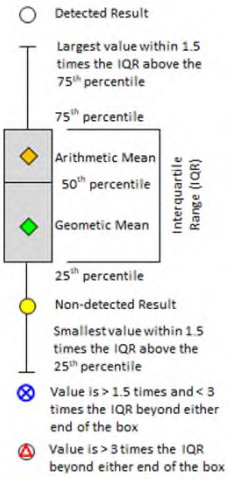
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL ALPHA + GAMMA CHLORDANE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-100





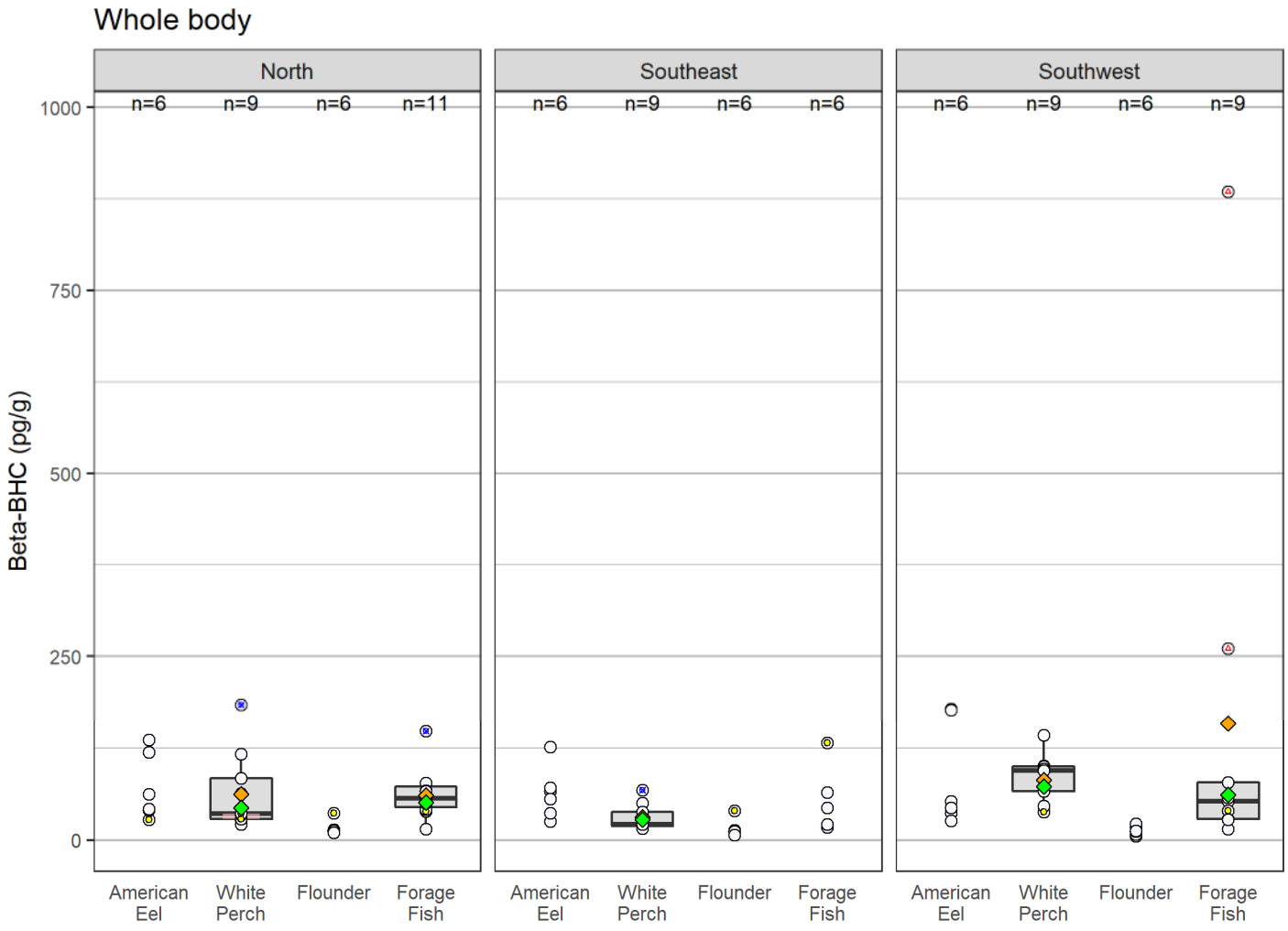
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

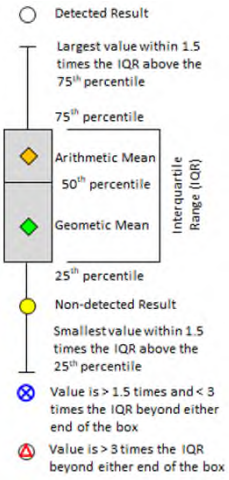
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - ALPHA-BHC

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-101





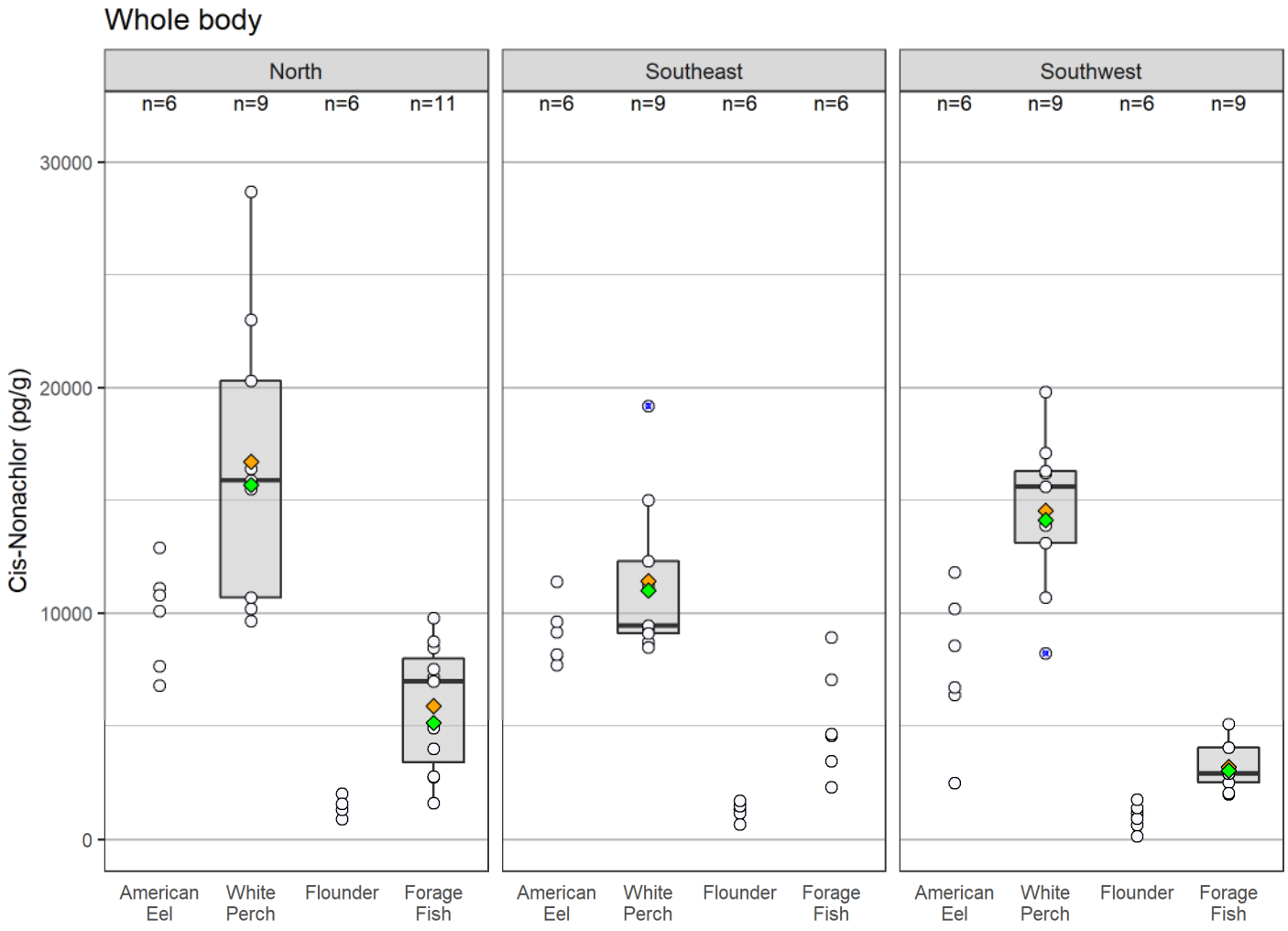
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

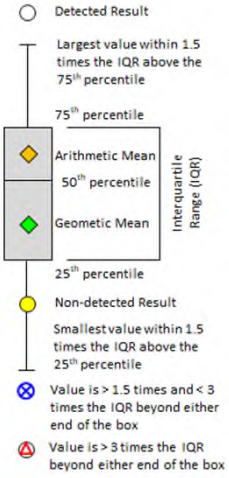
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - BETA-BHC

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-102





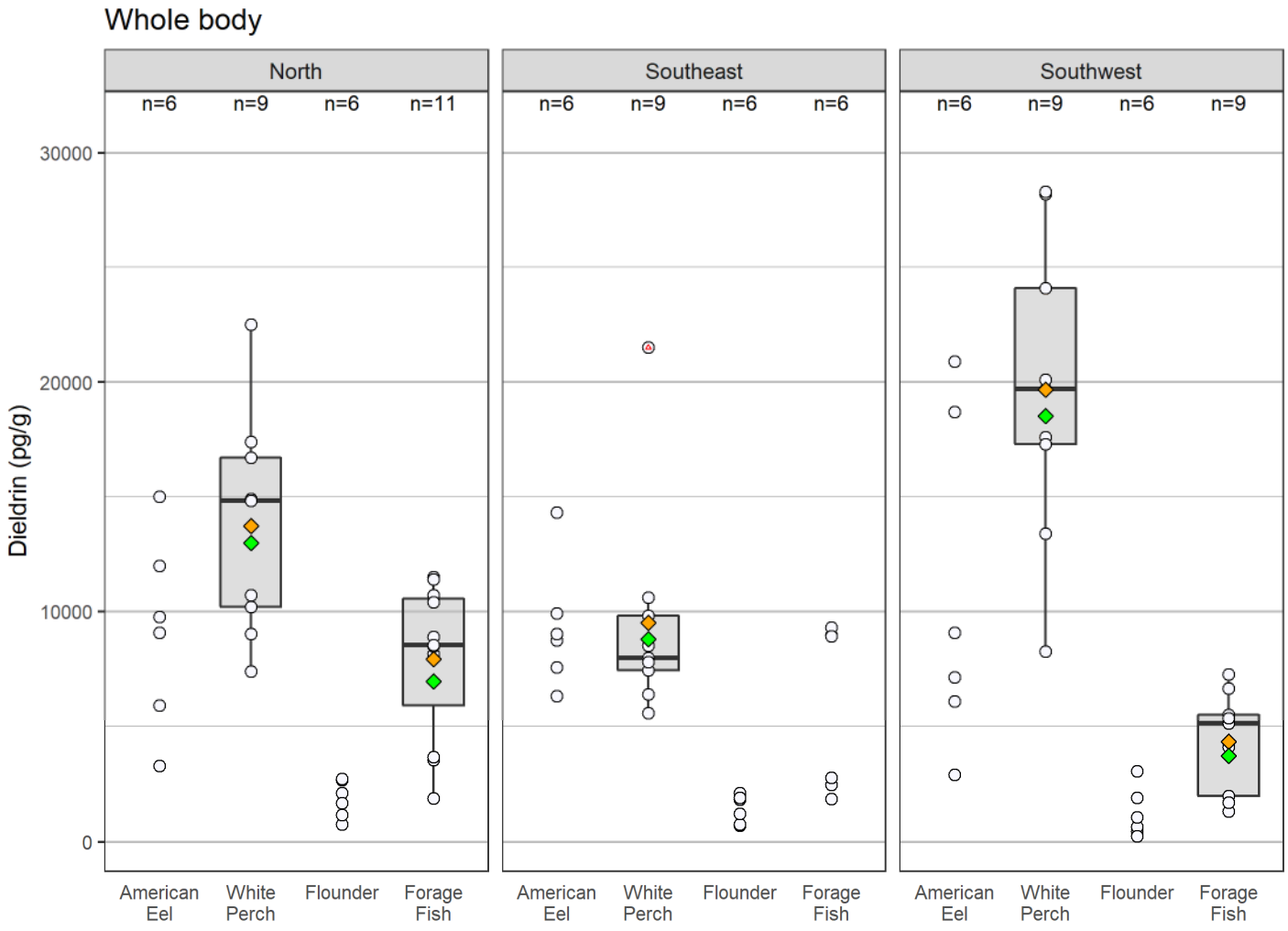
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

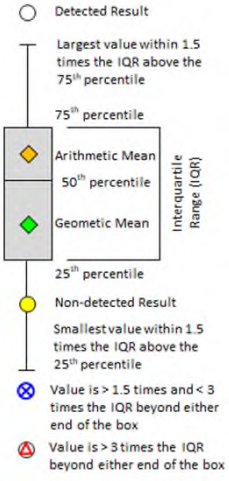
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - CIS-NONACHLOR

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-103





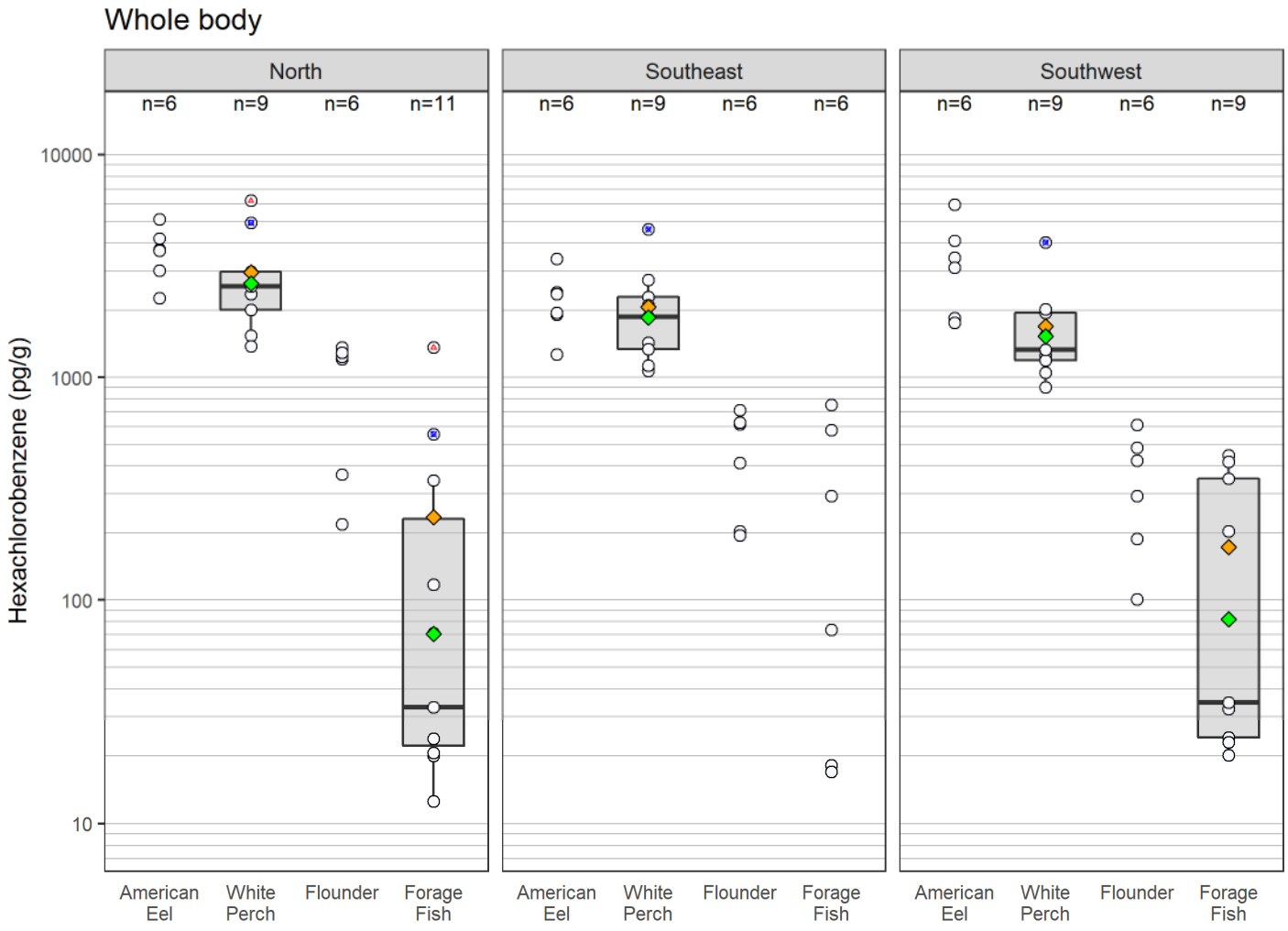
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

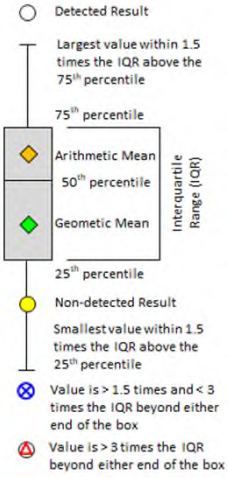
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - DIELDRIN

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-104





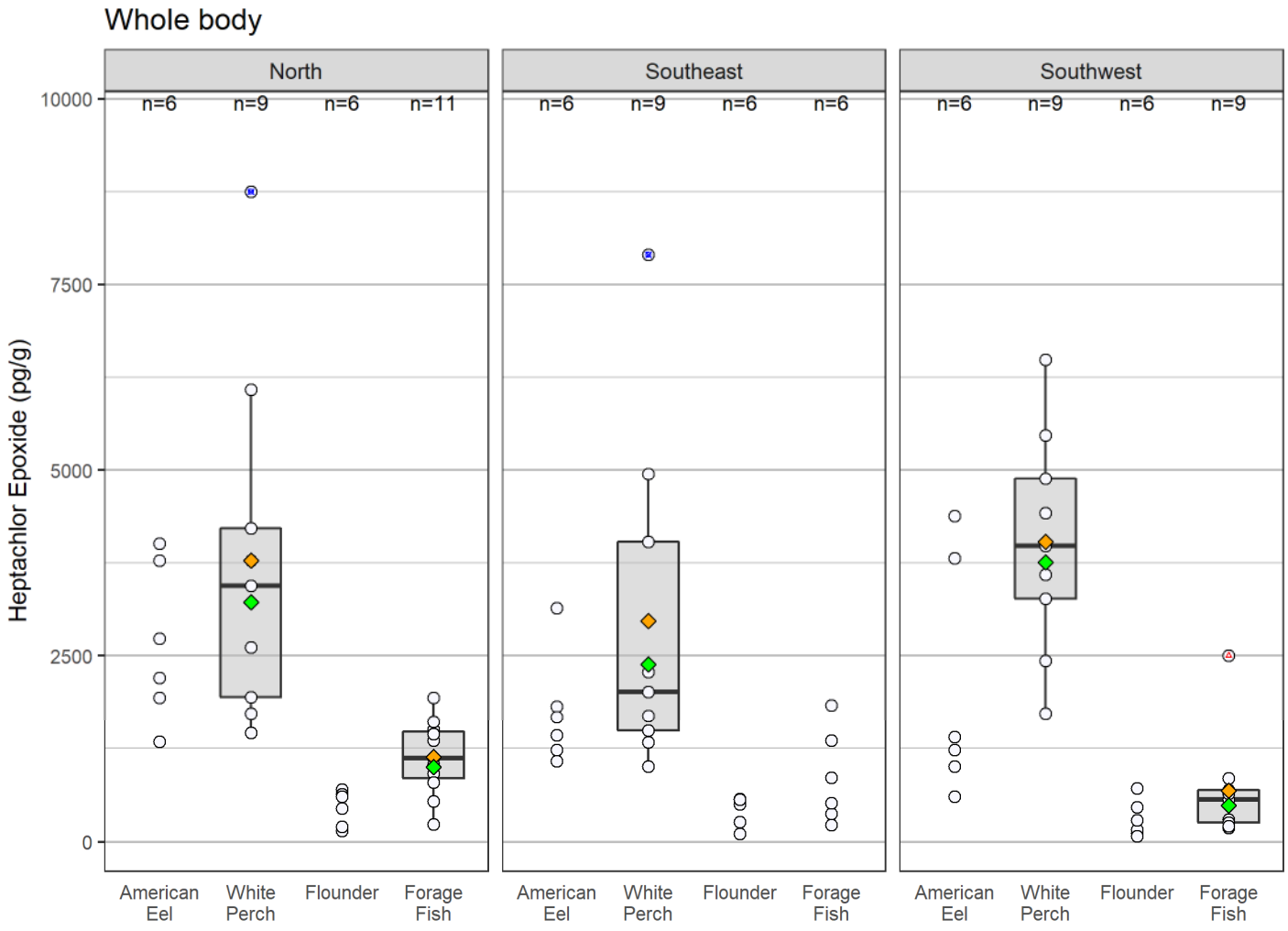
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

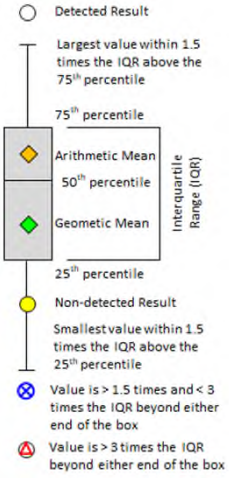
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - HEXACHLOROBENZENE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-105





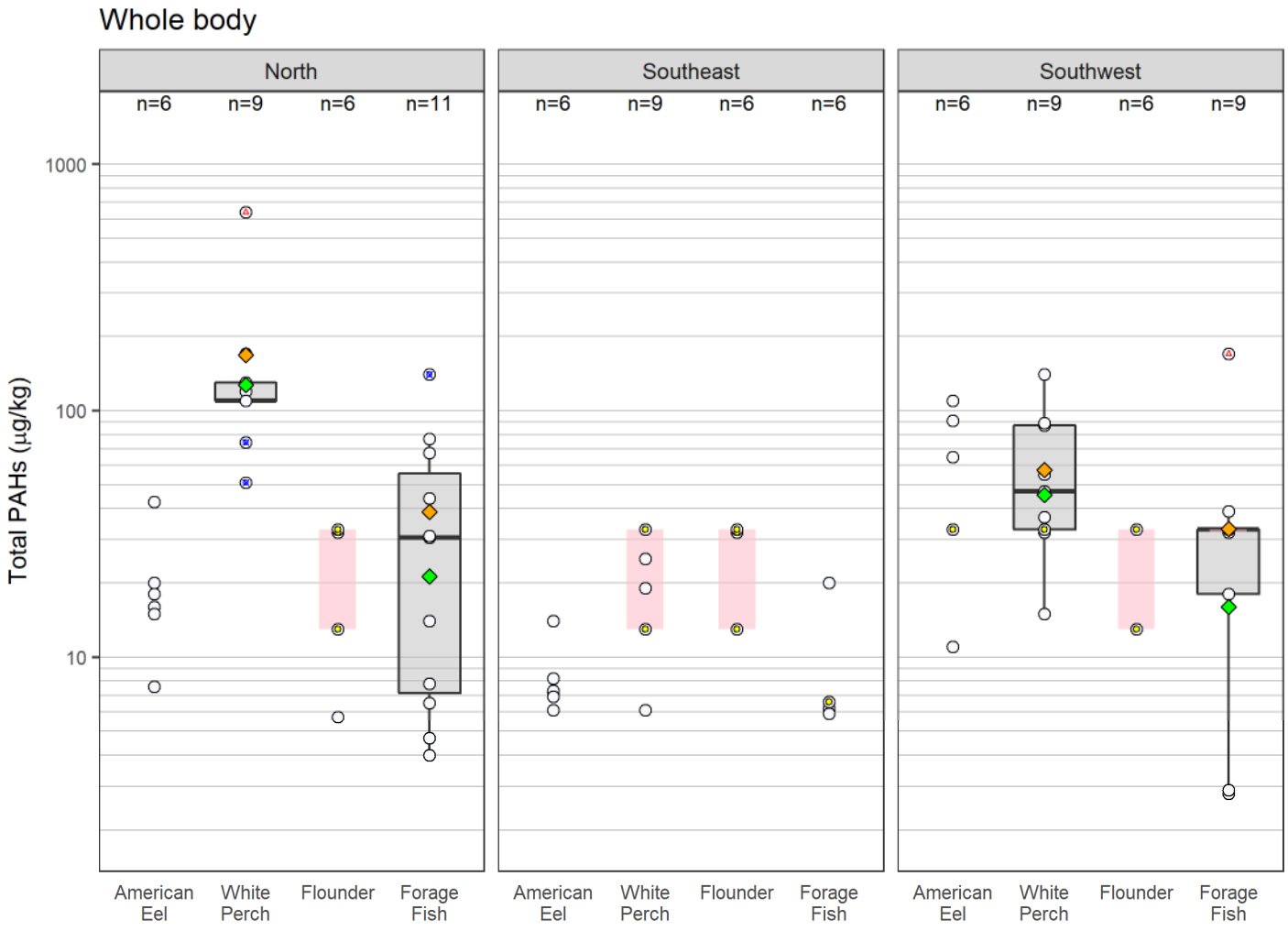
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

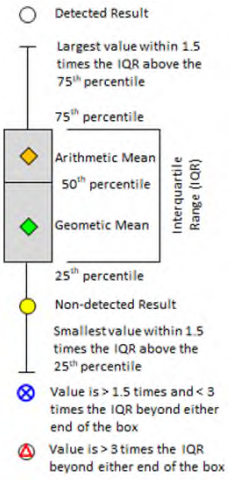
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - HEPTACHLOR EPOXIDE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-106





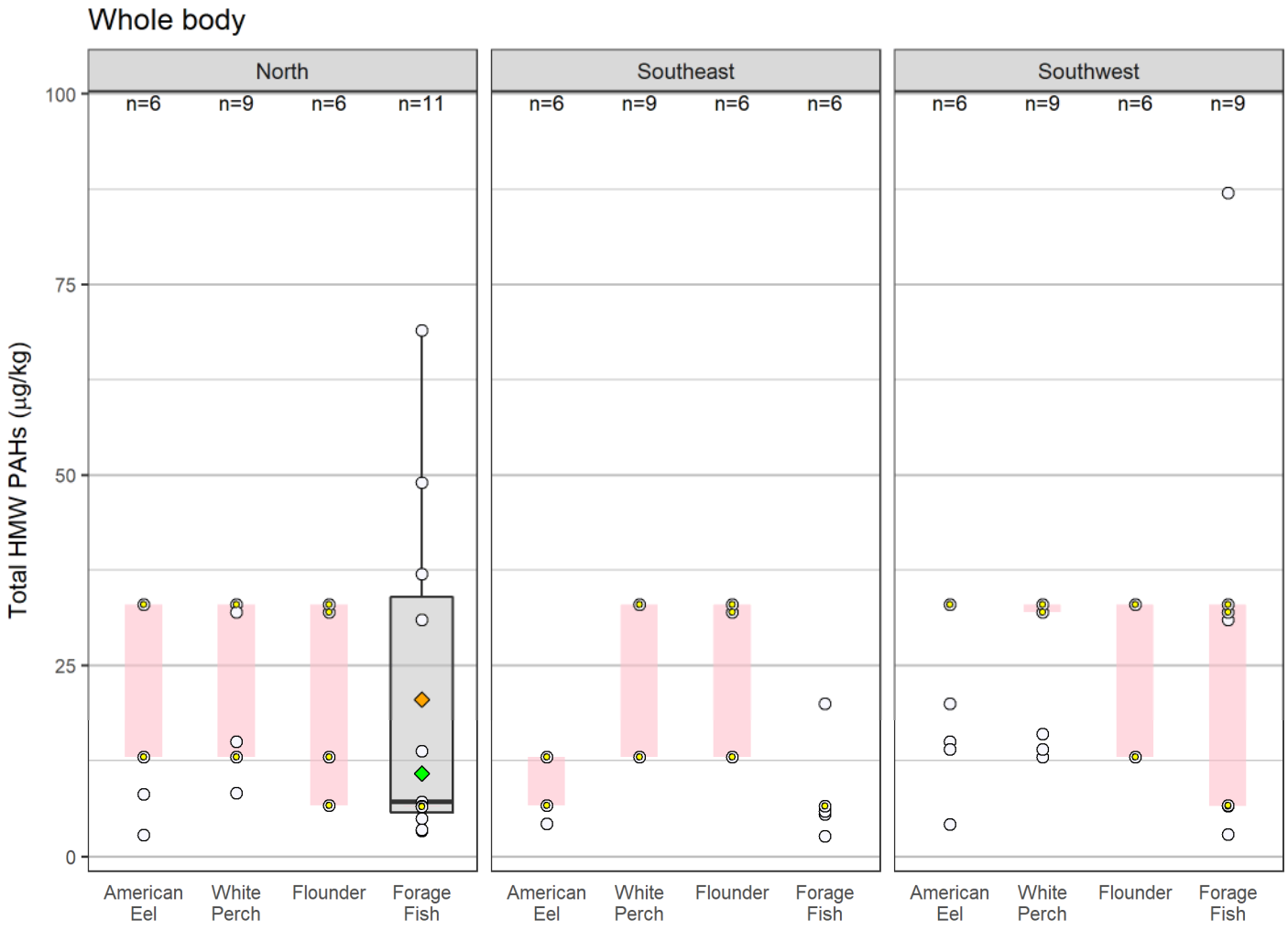
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

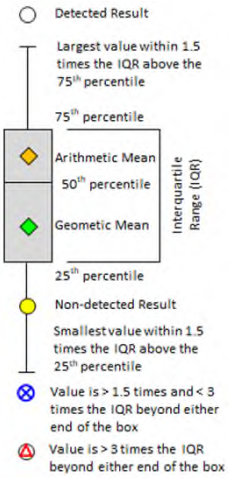
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-107





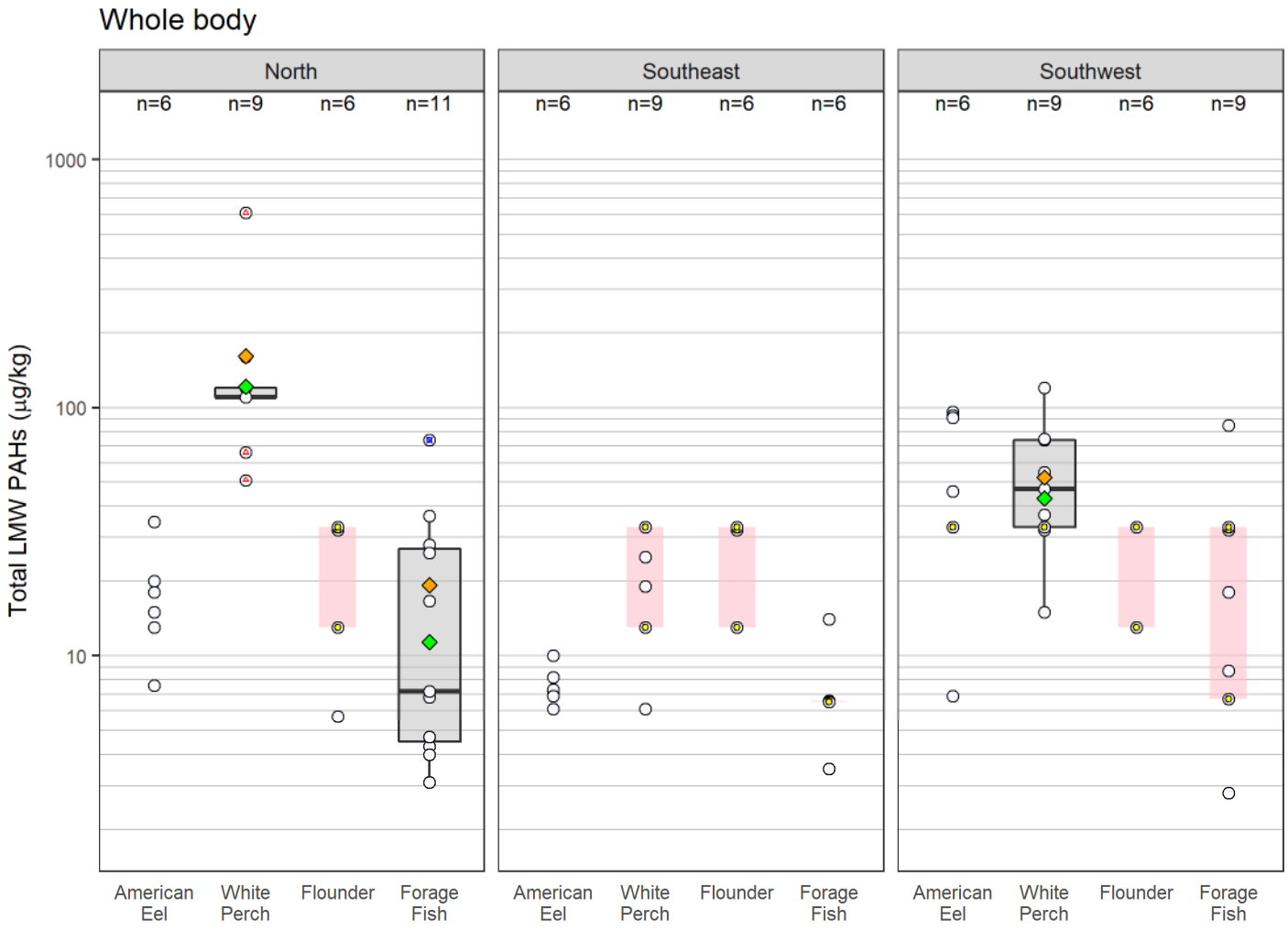
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

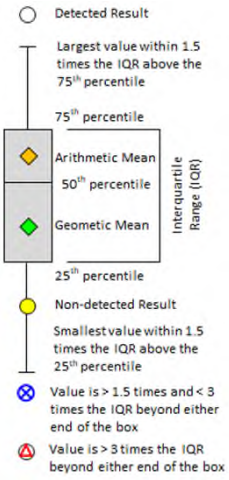
DIAMOND ALKALI SUPERFUND SITE
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL HMW PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-108





Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

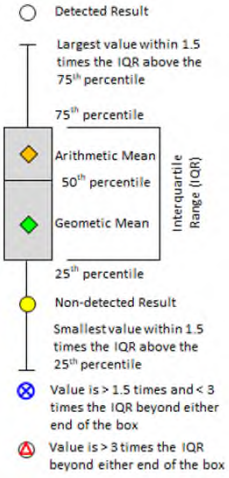
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL LMW PAHS

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-109





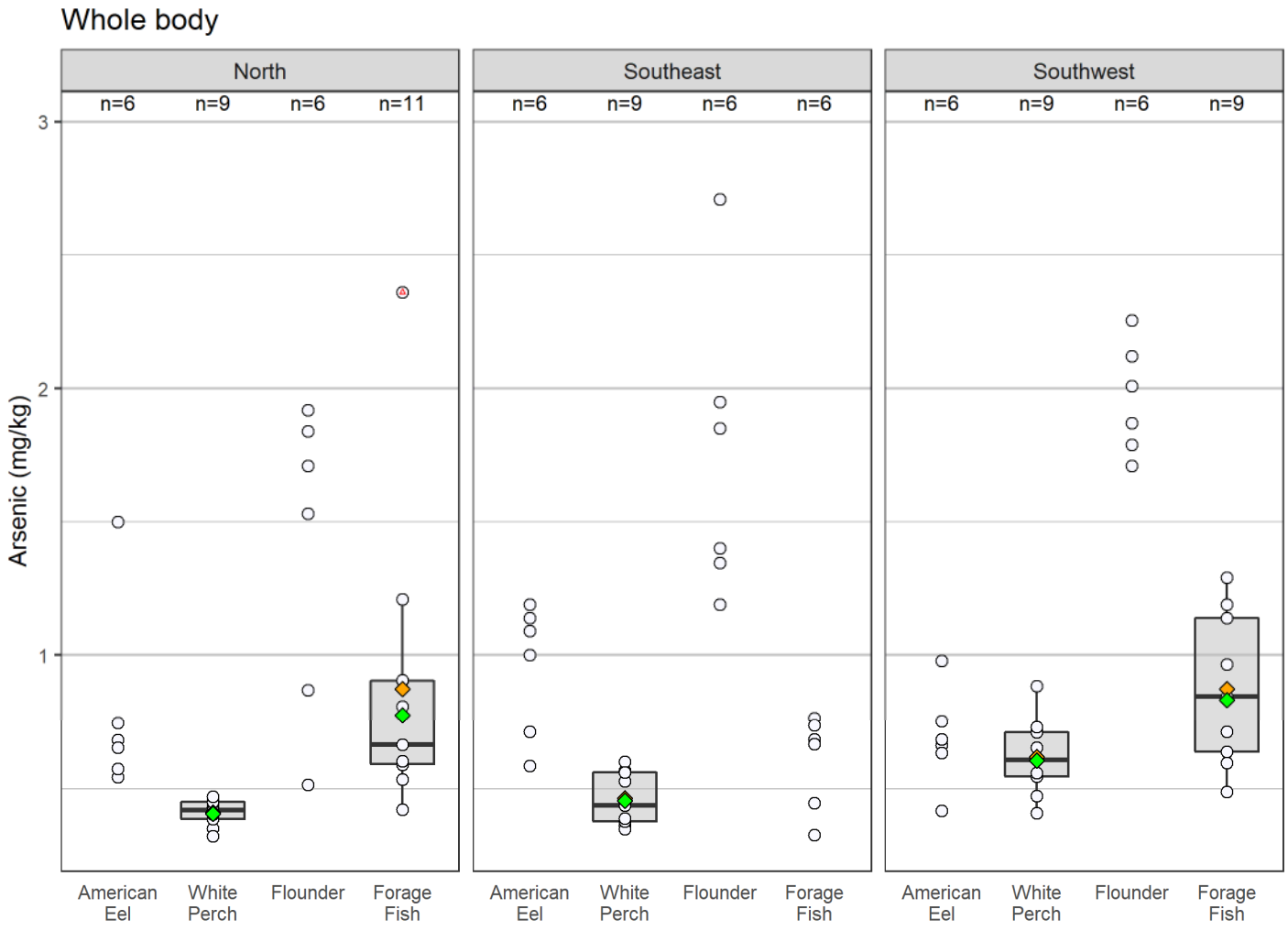
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

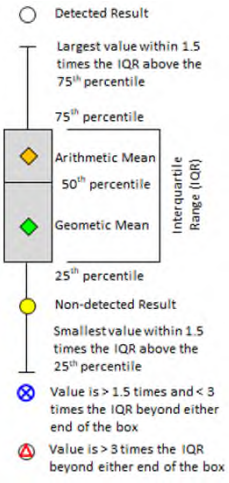
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - BIS(2-ETHYLHEXYL)PHTHALATE

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-110





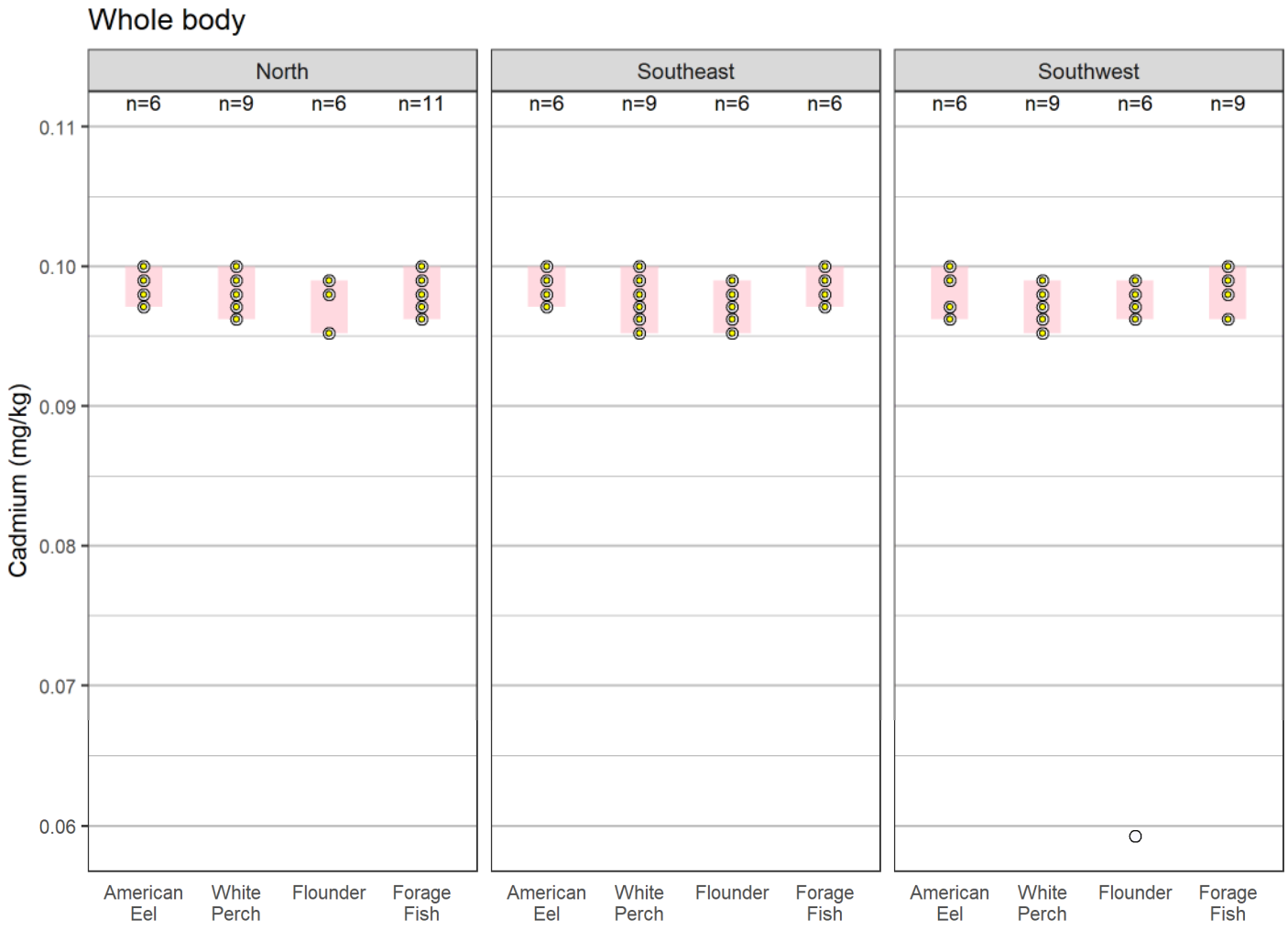
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
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Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

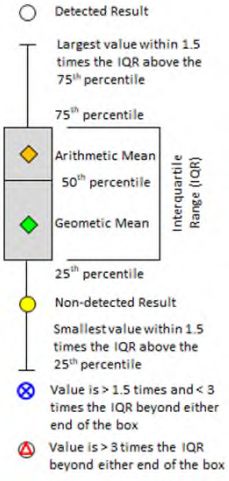
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - ARSENIC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-111





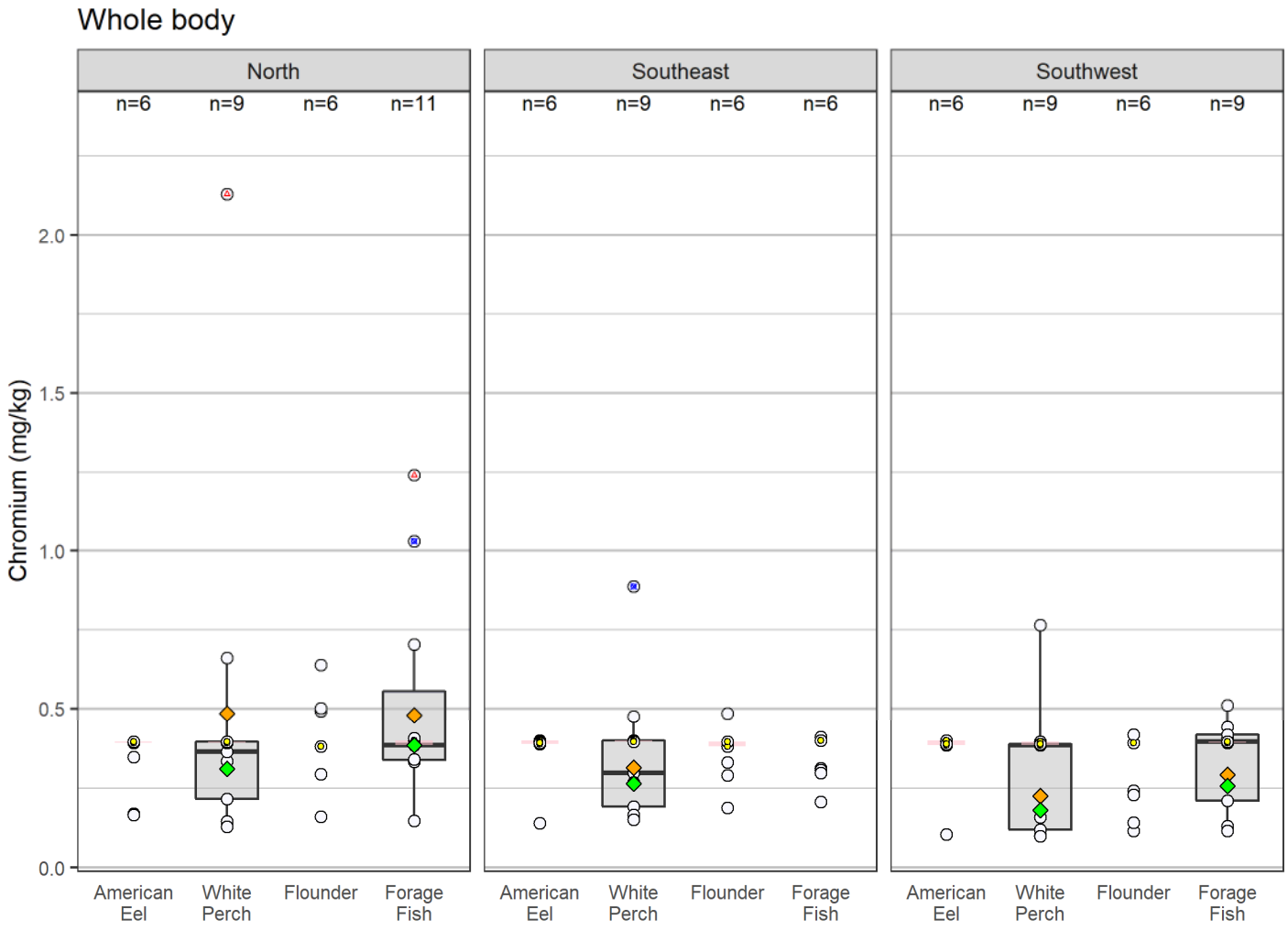
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

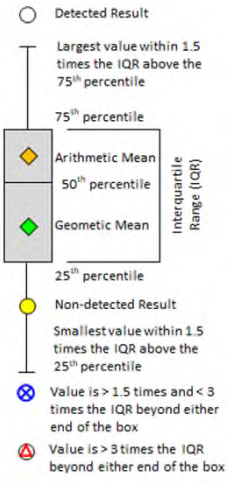
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - CADMIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-112





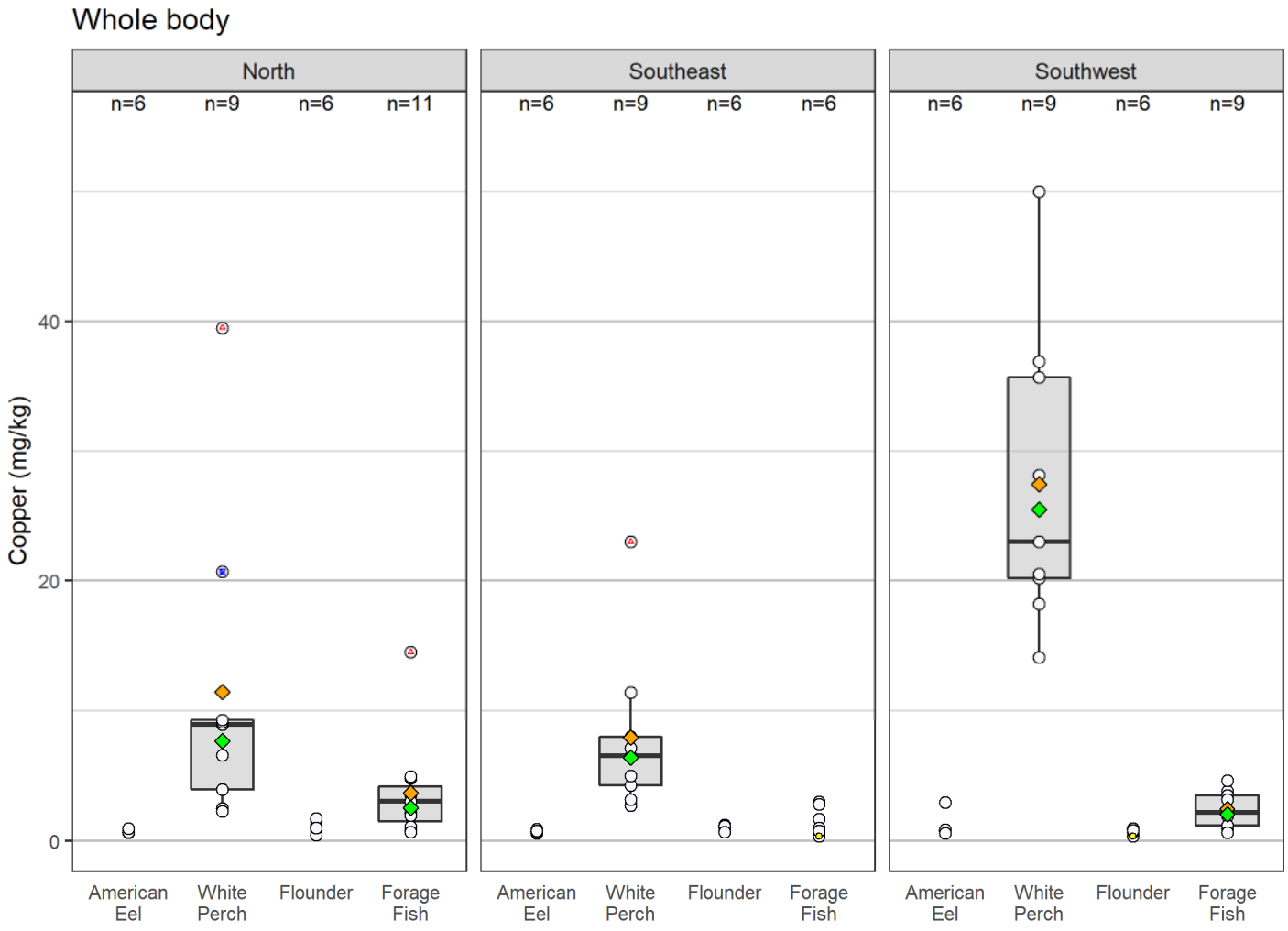
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
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Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

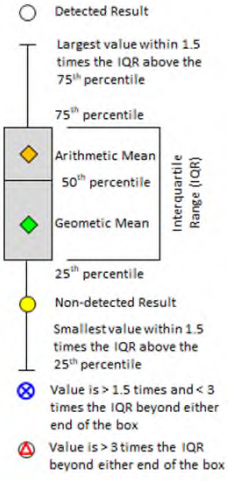
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - CHROMIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-113





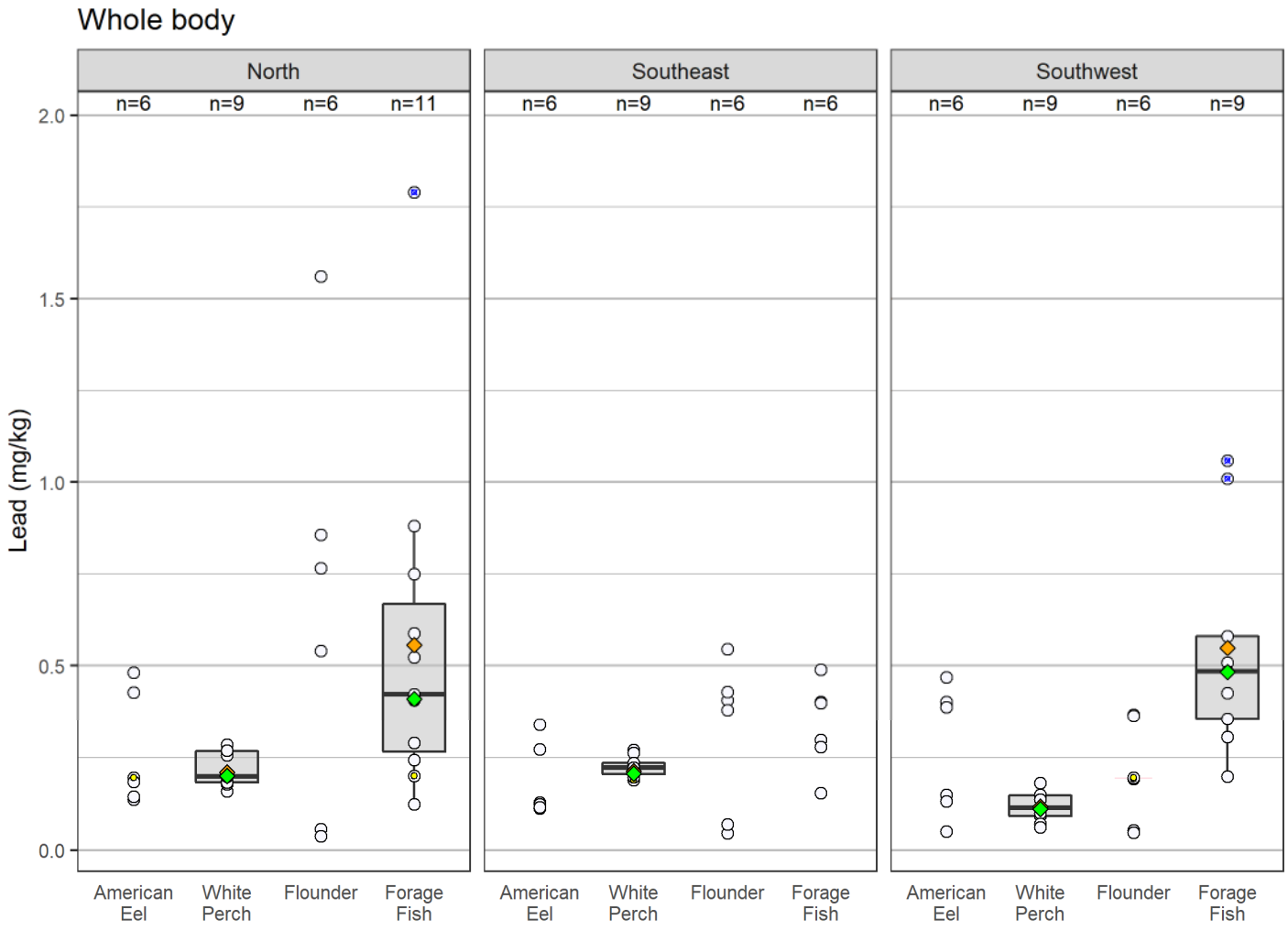
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

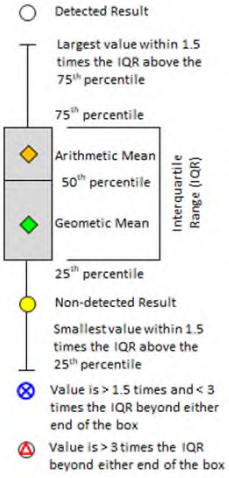
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - COPPER

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-114





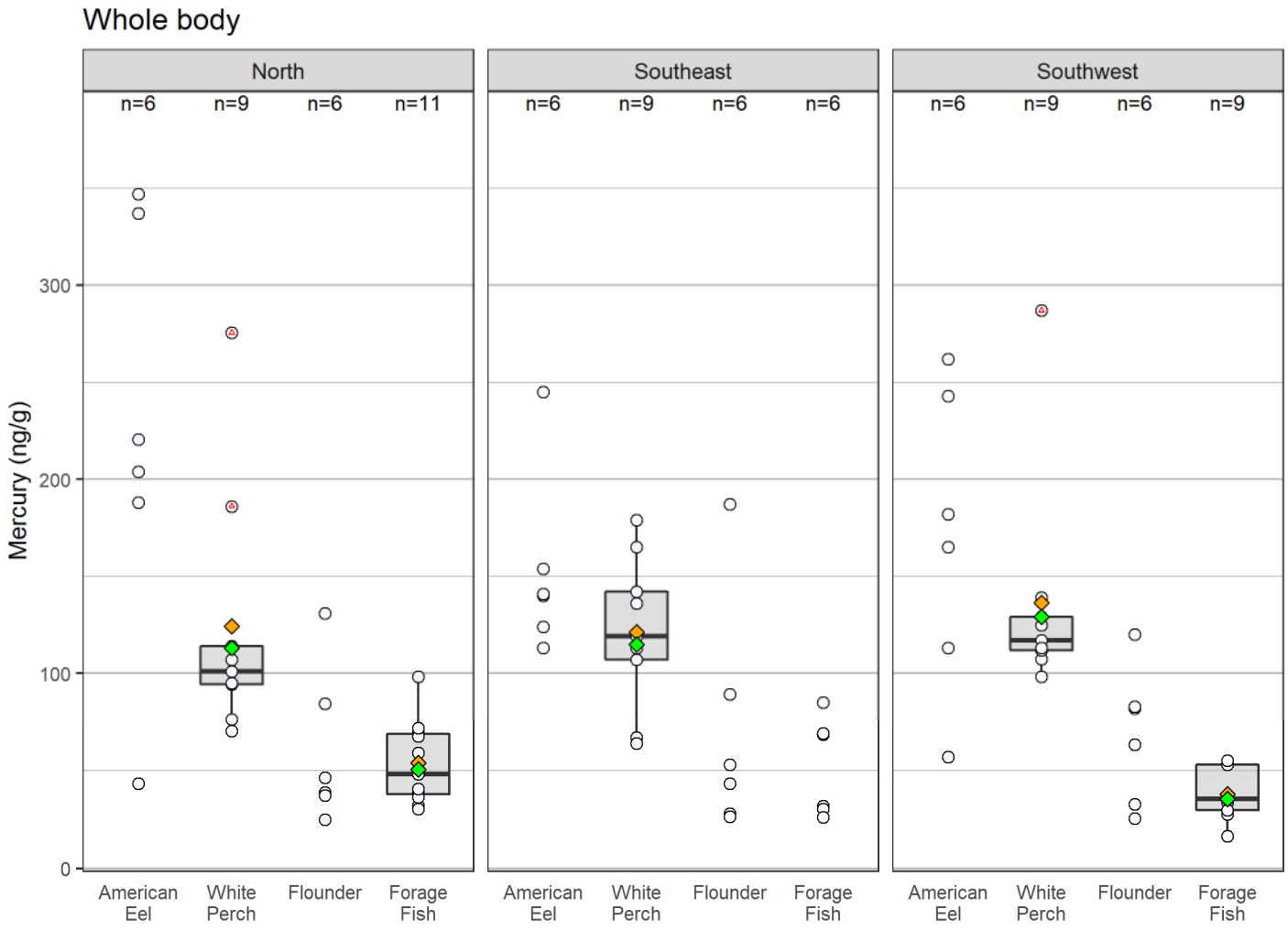
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
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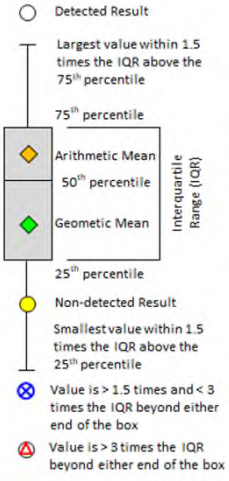
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - LEAD

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-115





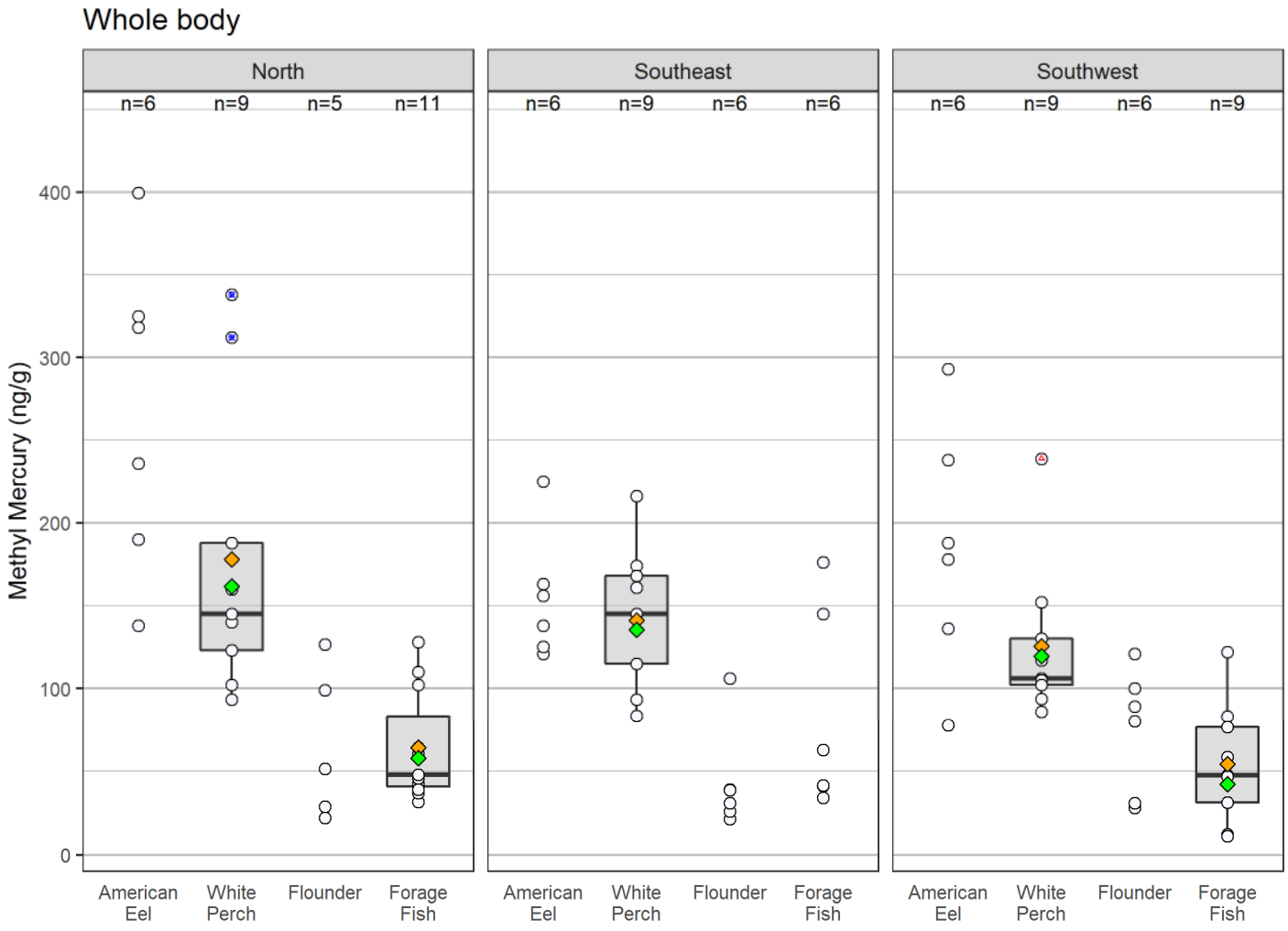
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
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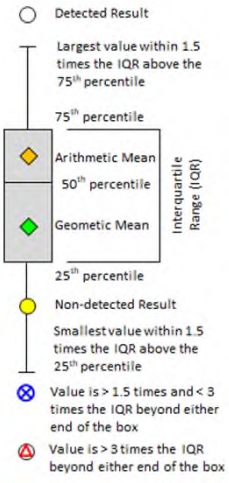
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - MERCURY

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-116





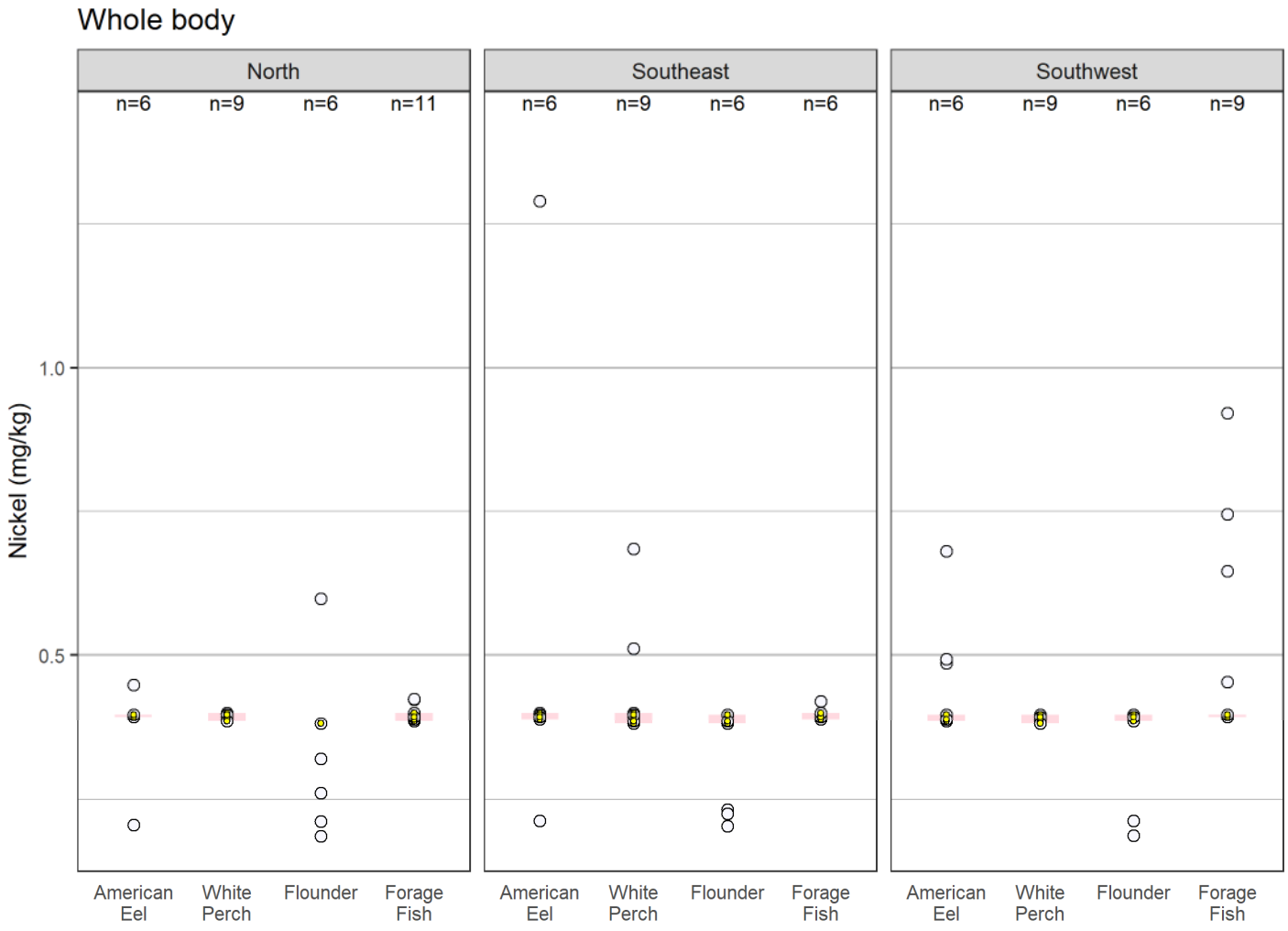
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
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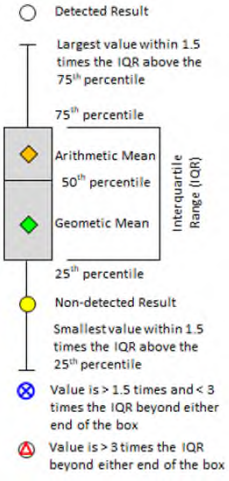
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - METHYL MERCURY

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-117





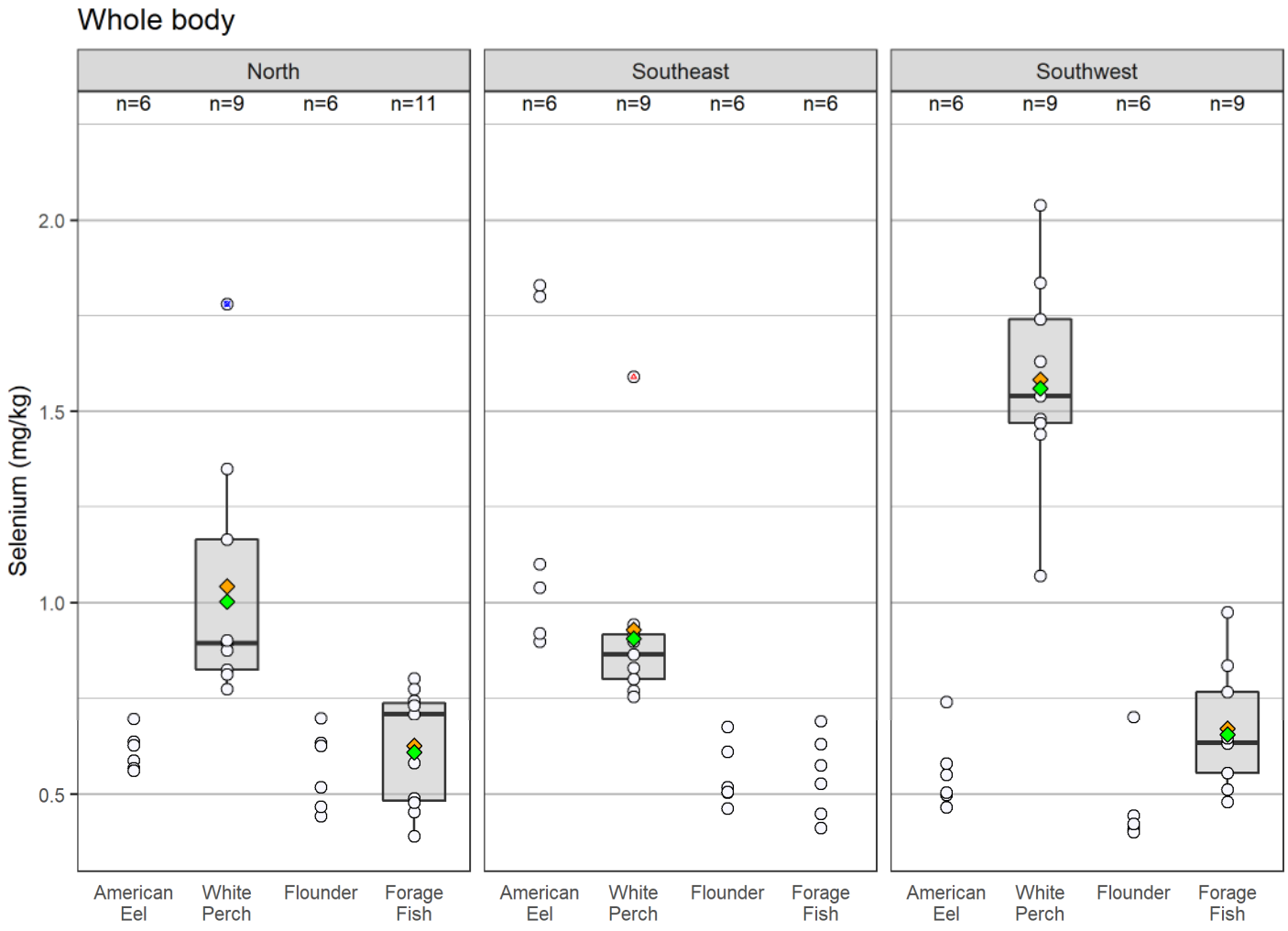
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
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Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

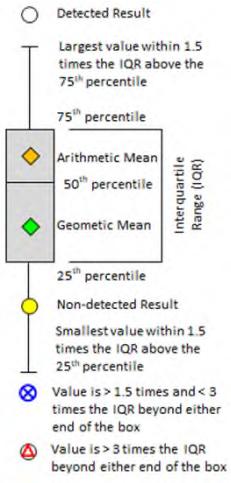
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - NICKEL

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-118





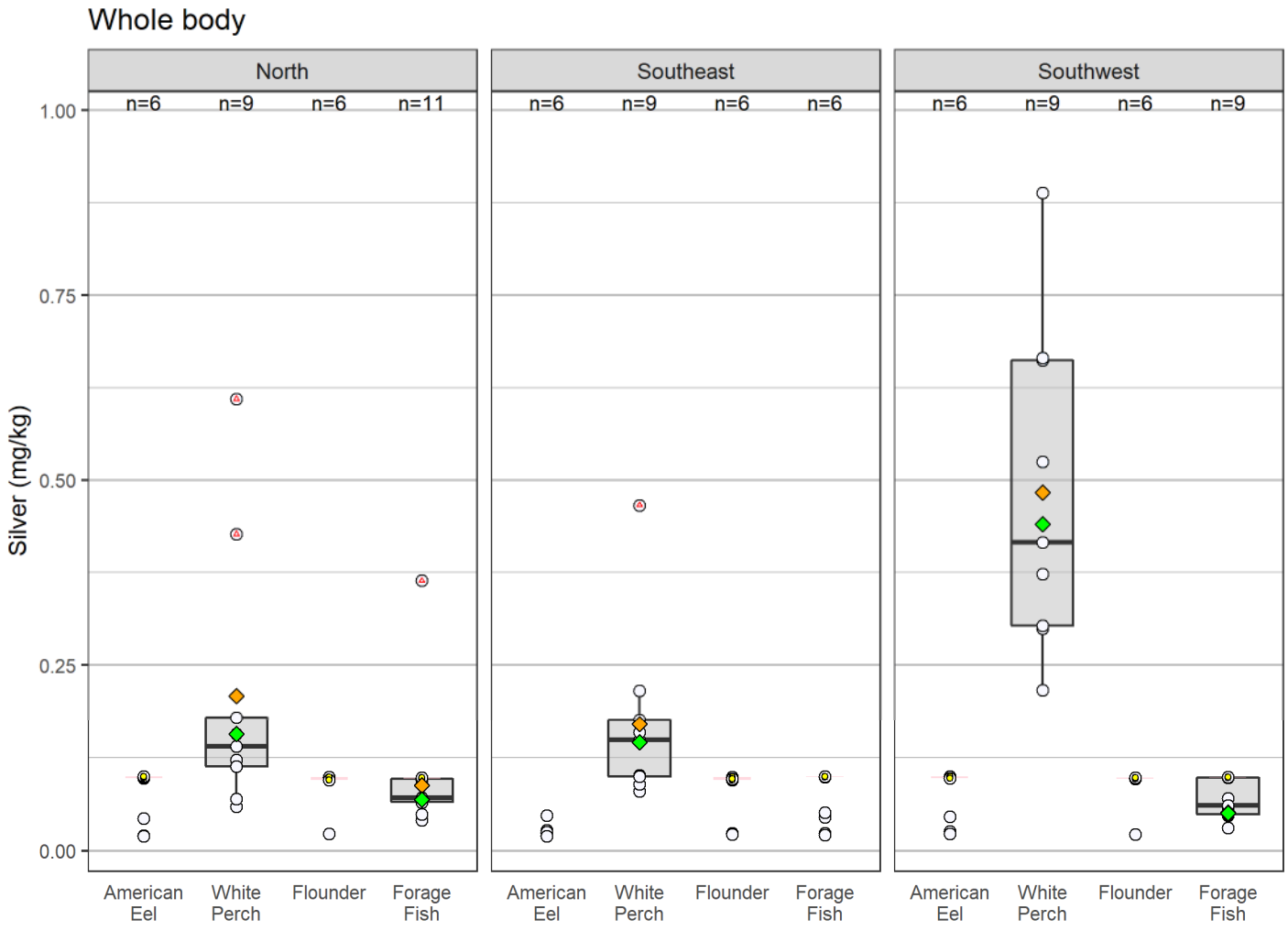
Notes:
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Non-detects plotted at the quantitation limit.
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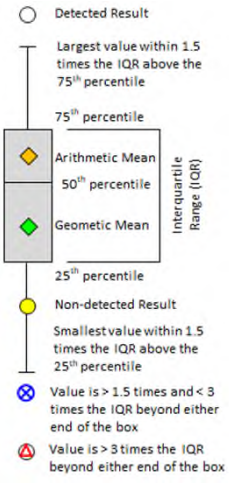
DIAMOND ALKALI SUPERFUND SITE
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - SELENIUM

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-119





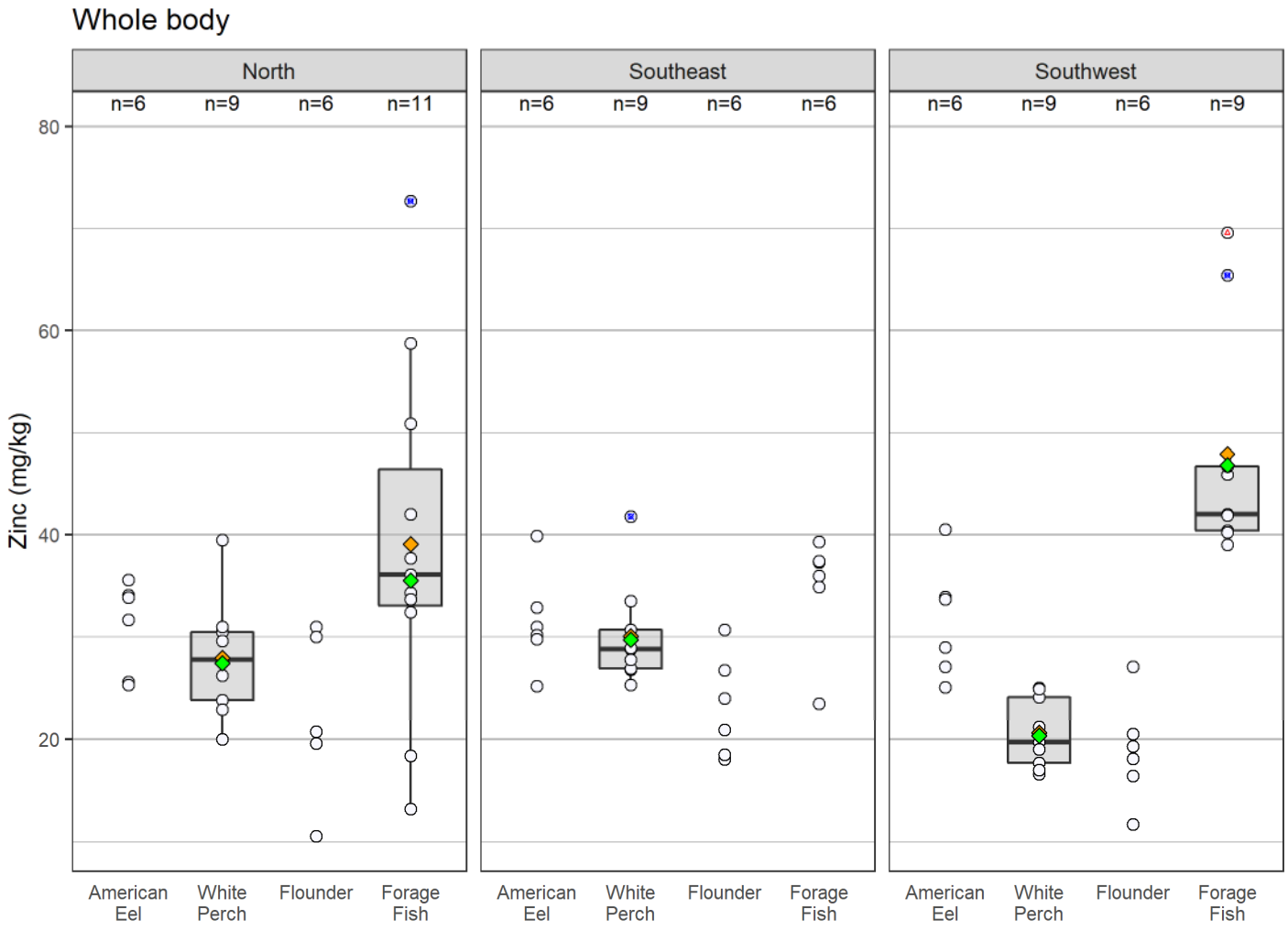
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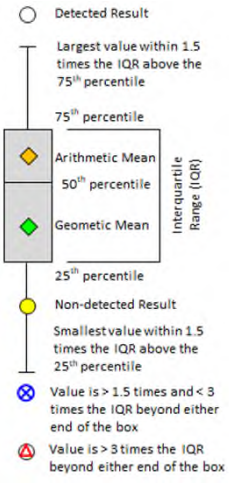
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - SILVER

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-120





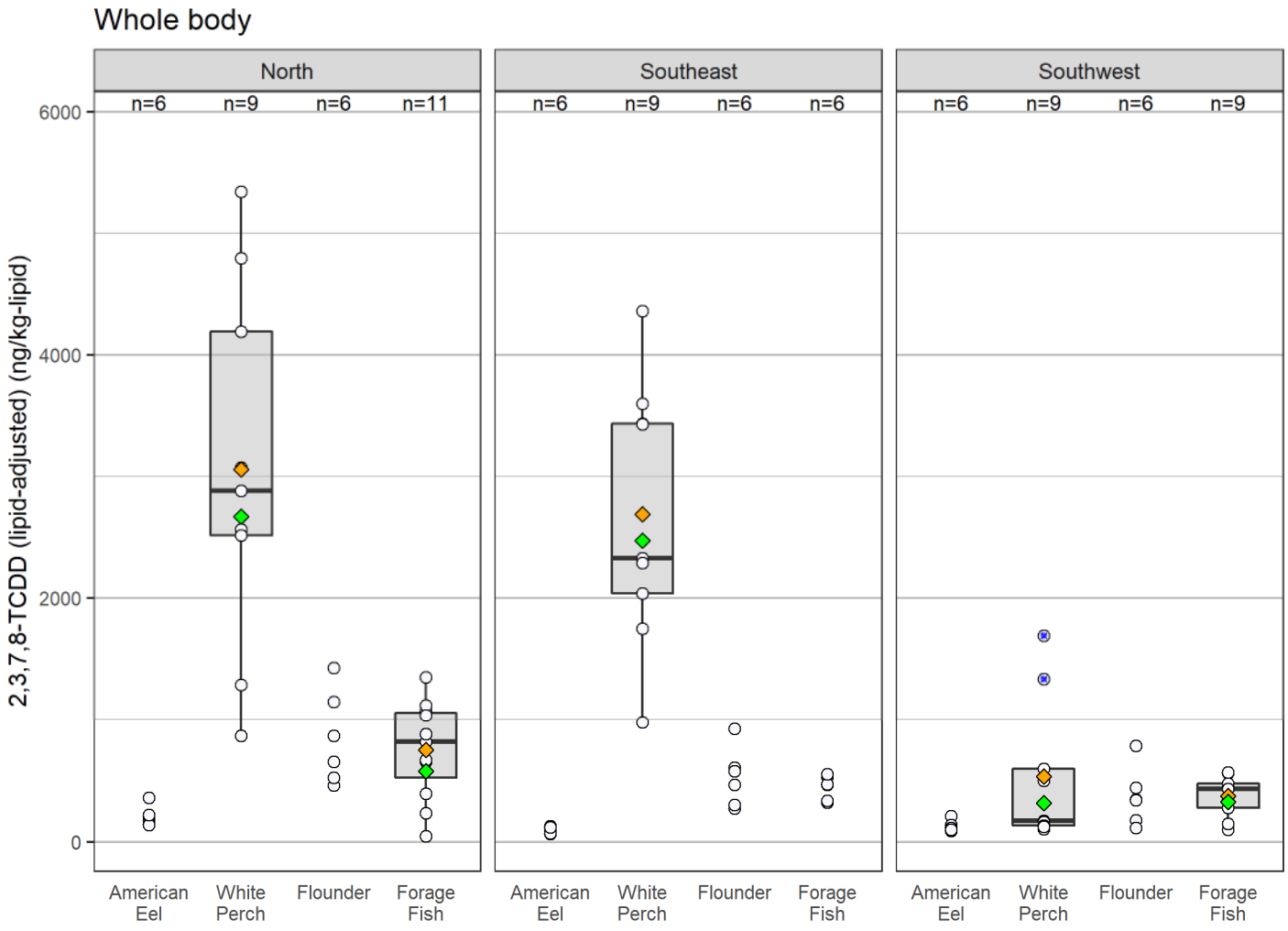
Notes:
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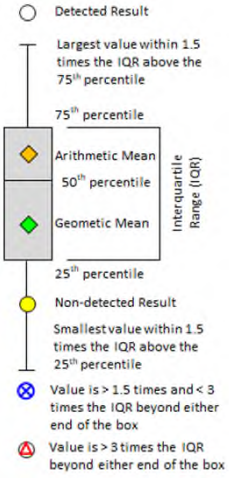
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - ZINC

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-121





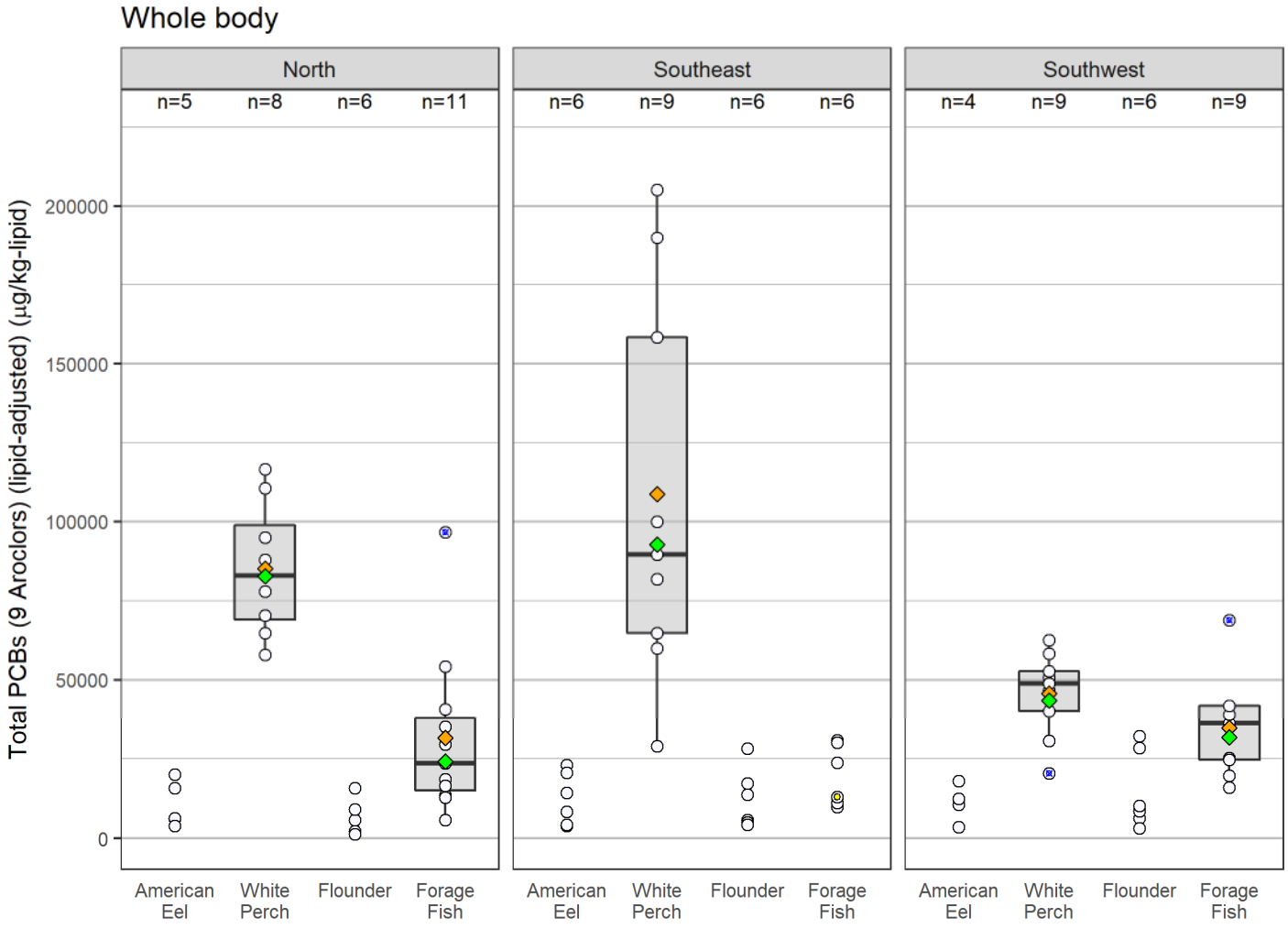
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
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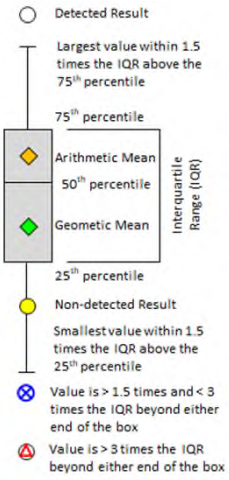
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - 2,3,7,8-TCDD (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-122





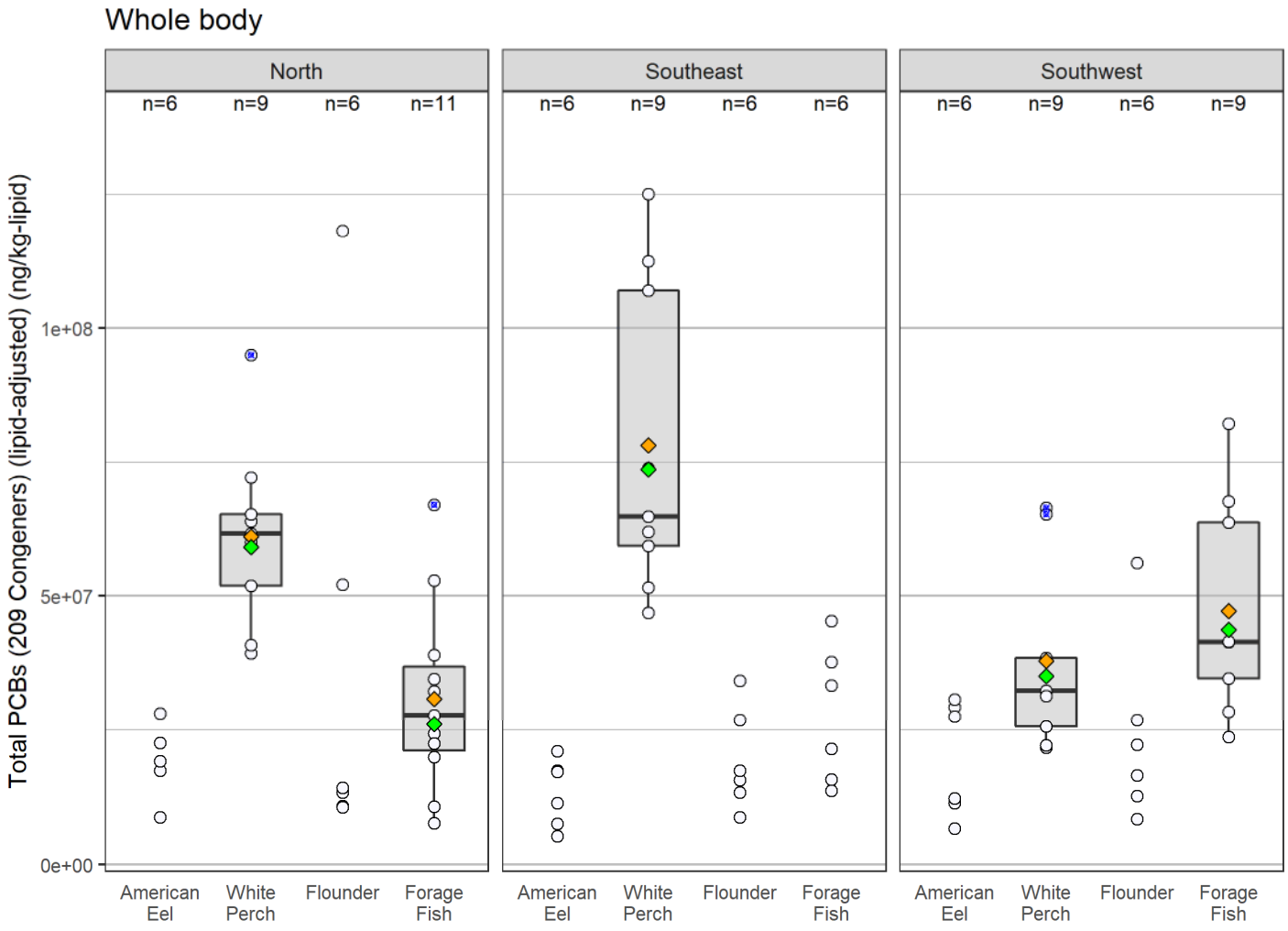
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

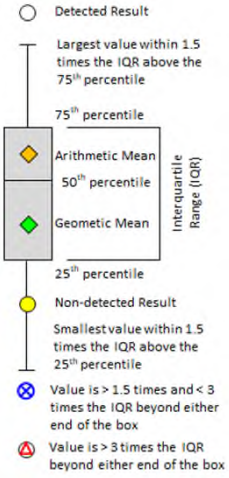
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NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL PCBS (9 AROCLORS) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-123





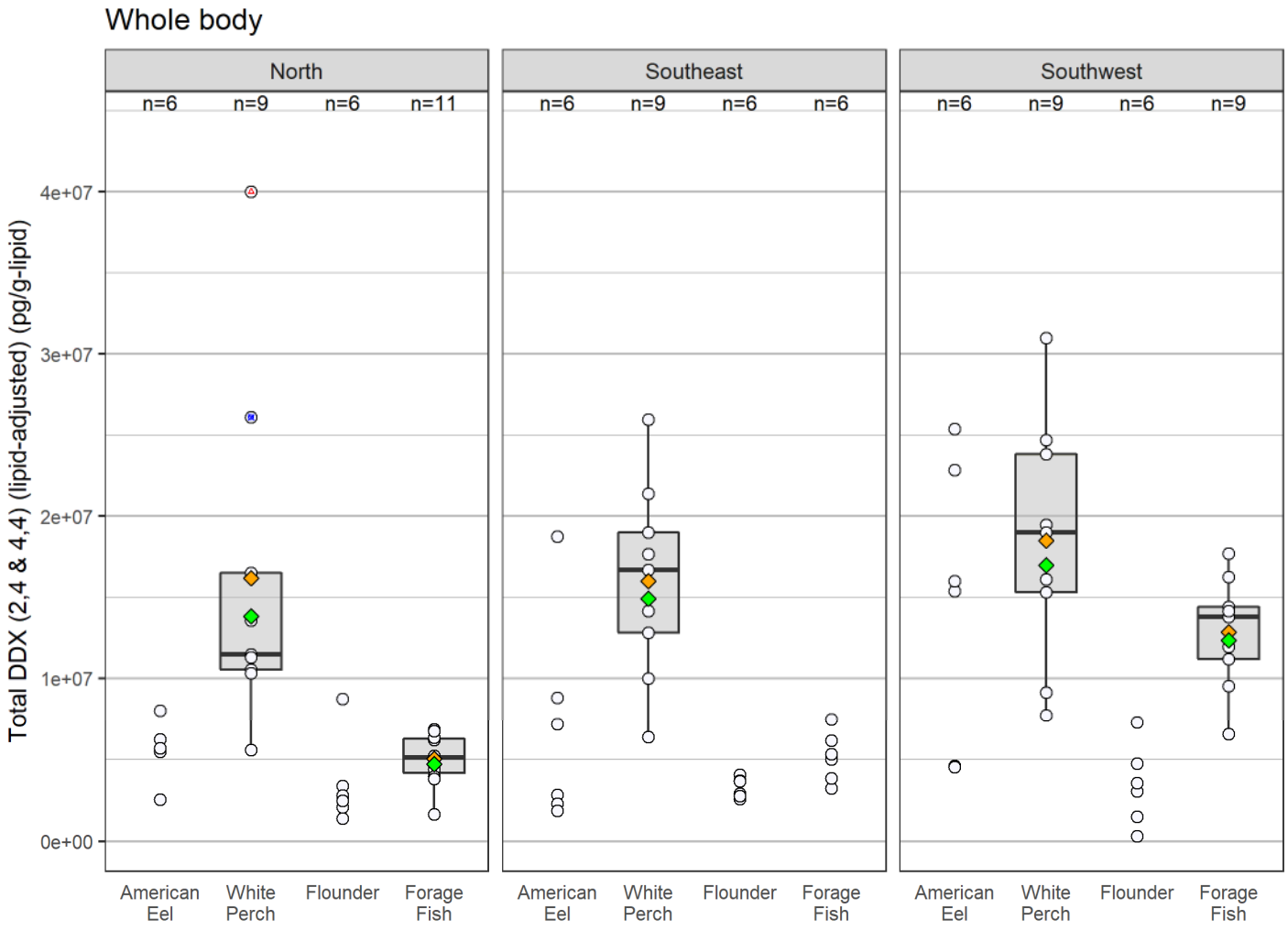
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

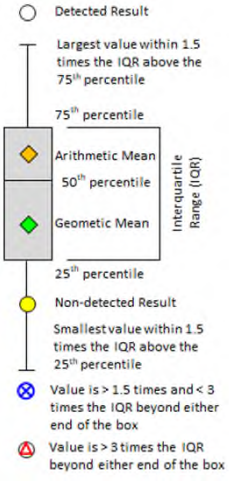
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REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL PCB (209 CONGENERS) (LIPID-ADJUSTED)

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-124





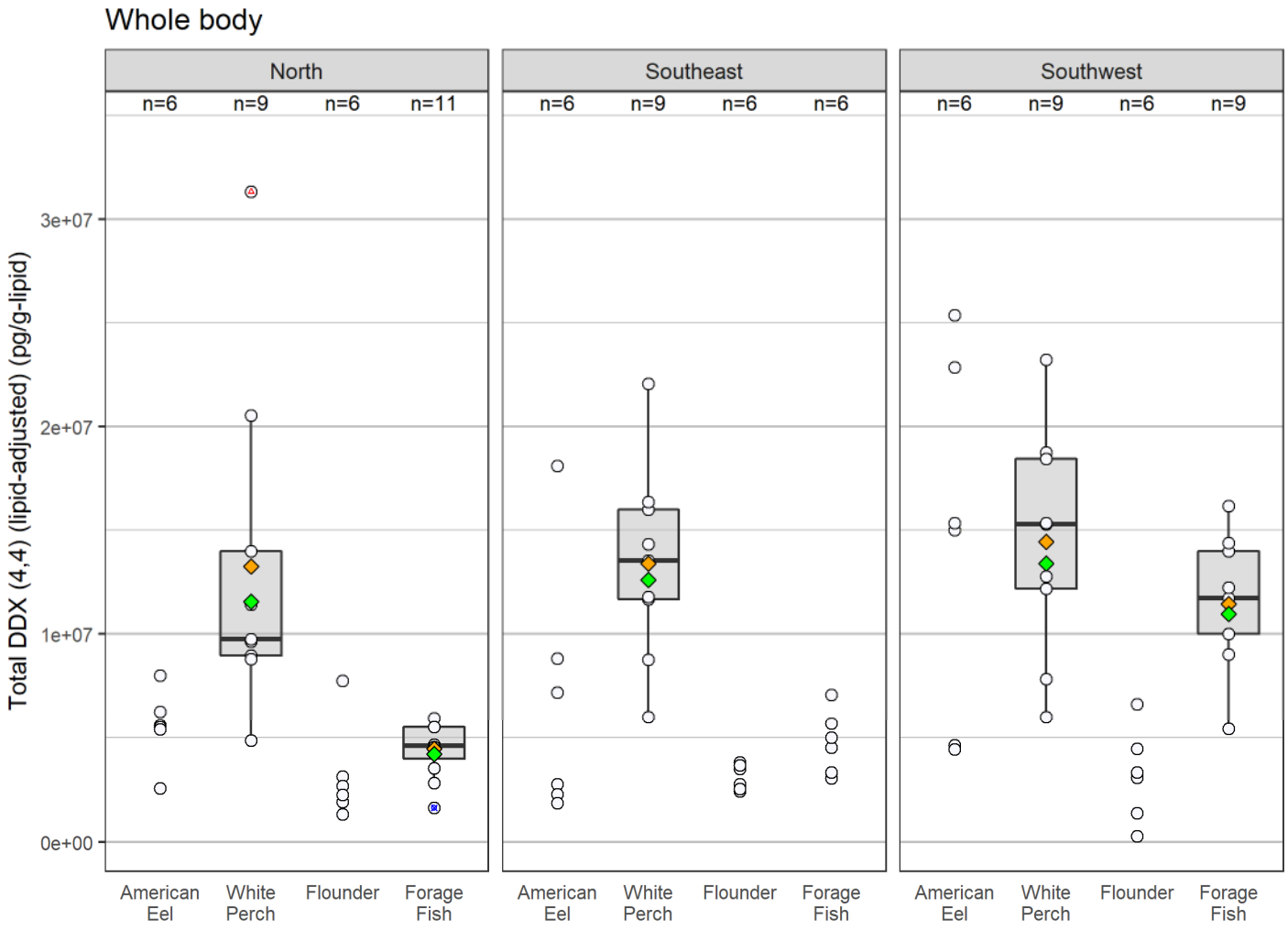
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

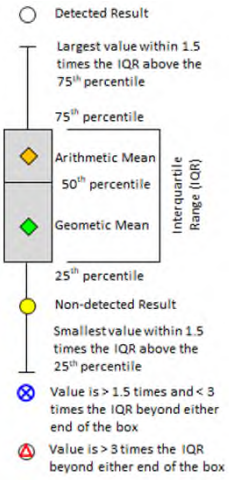
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL DDX (2,4 & 4,4) (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-125





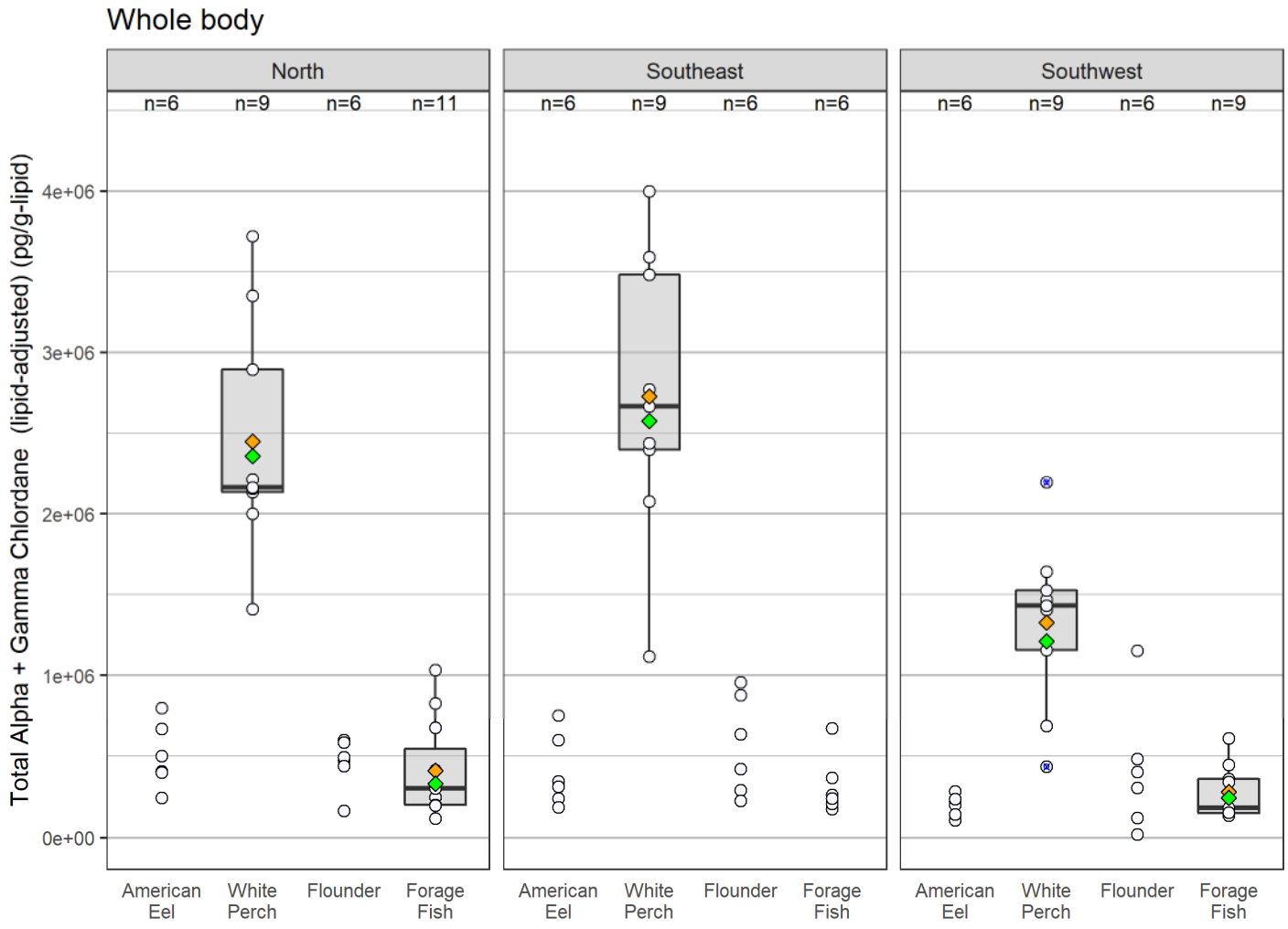
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
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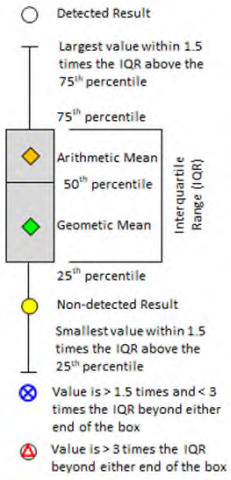
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL DDX (4,4) (LIPID-ADJUSTED)

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-126





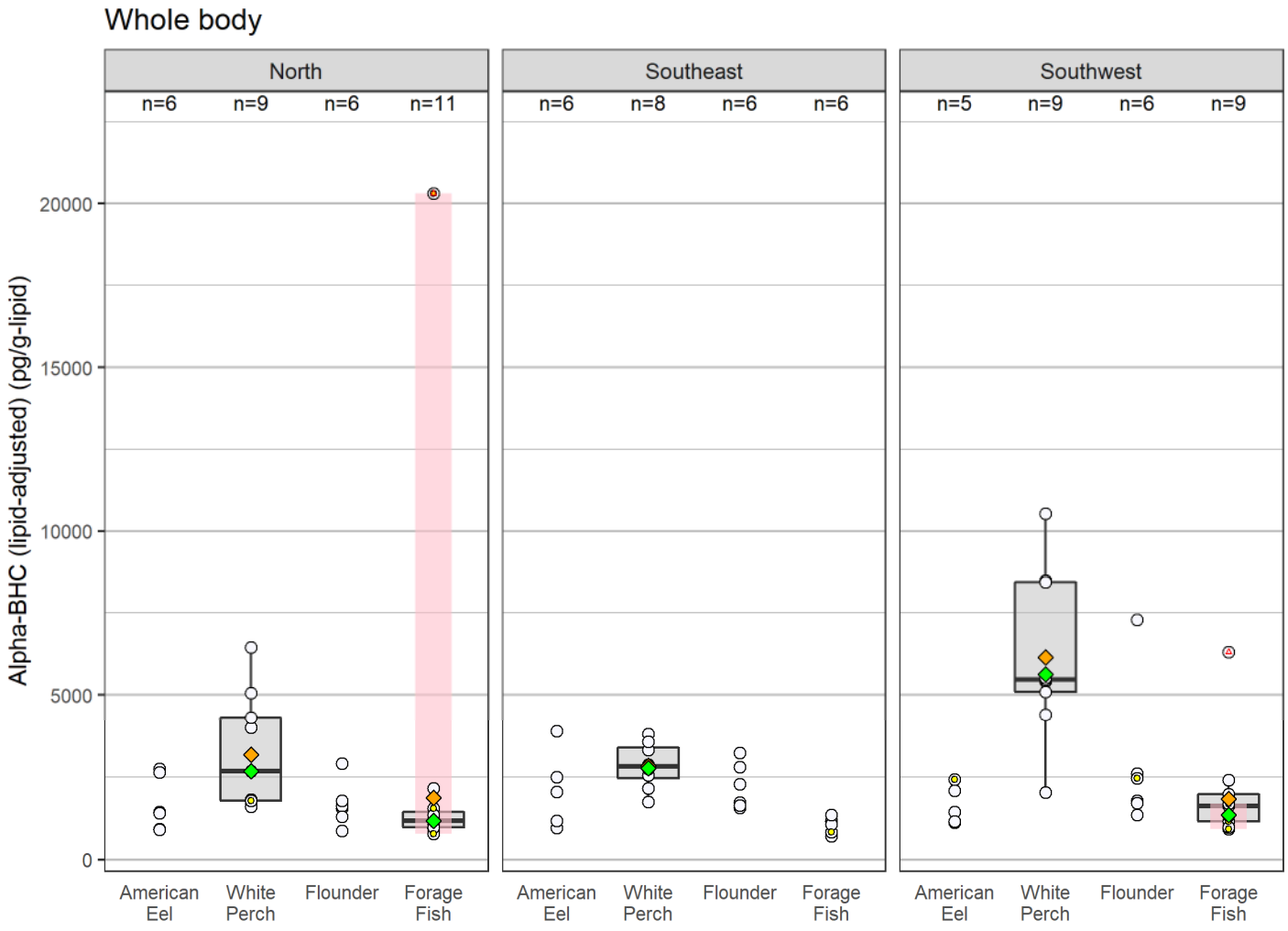
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

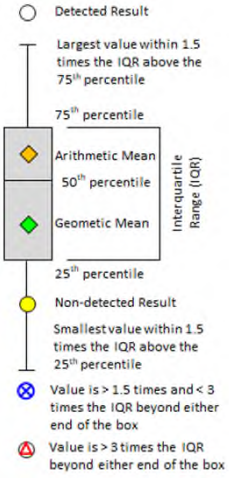
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL ALPHA + GAMMA CHLORDANE (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-127





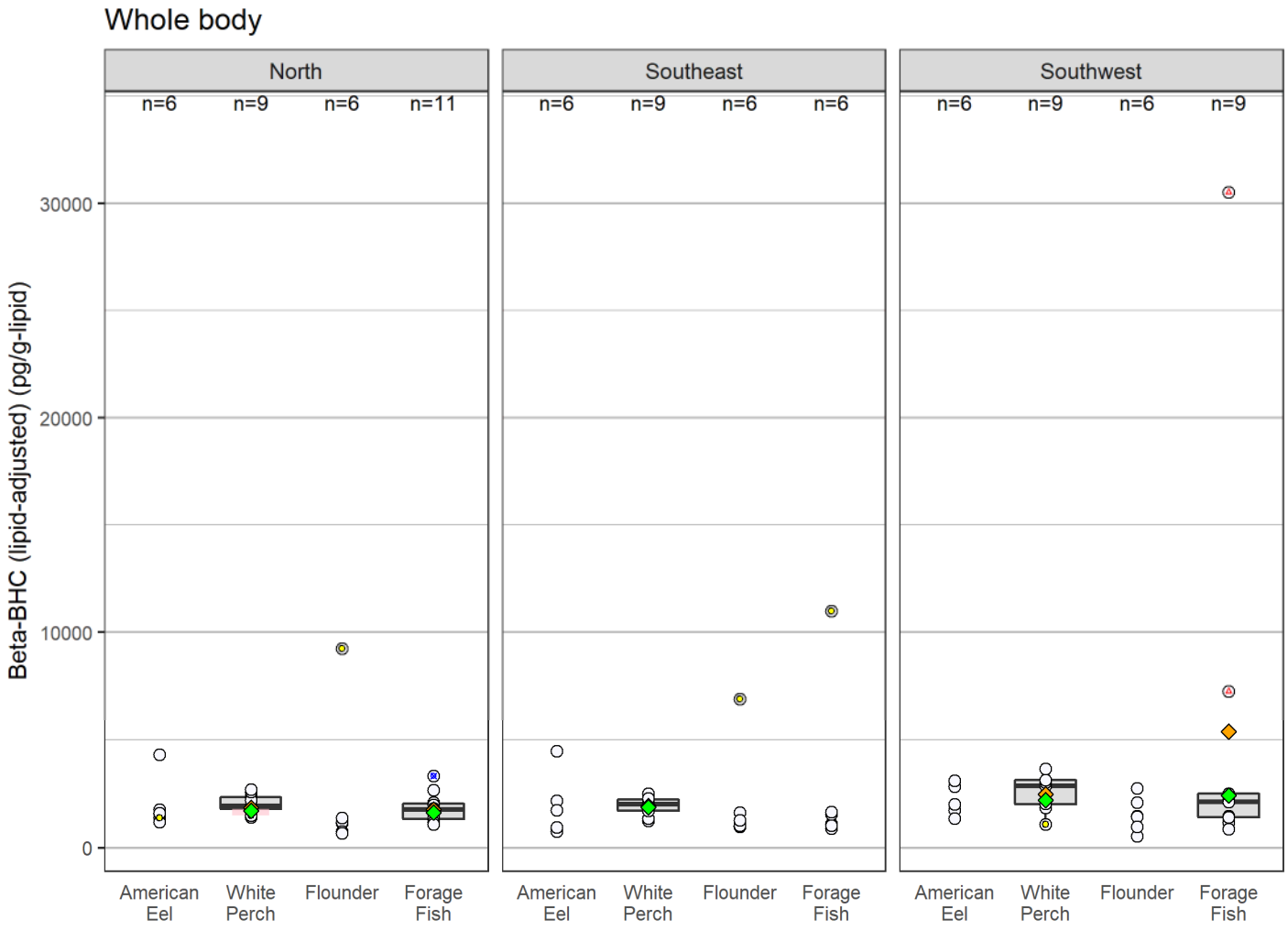
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

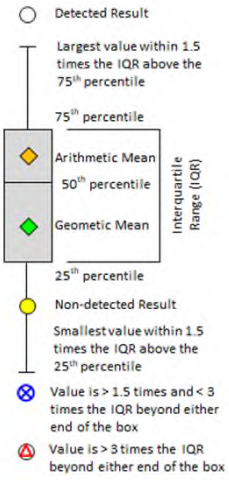
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - ALPHA-BHC (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-128





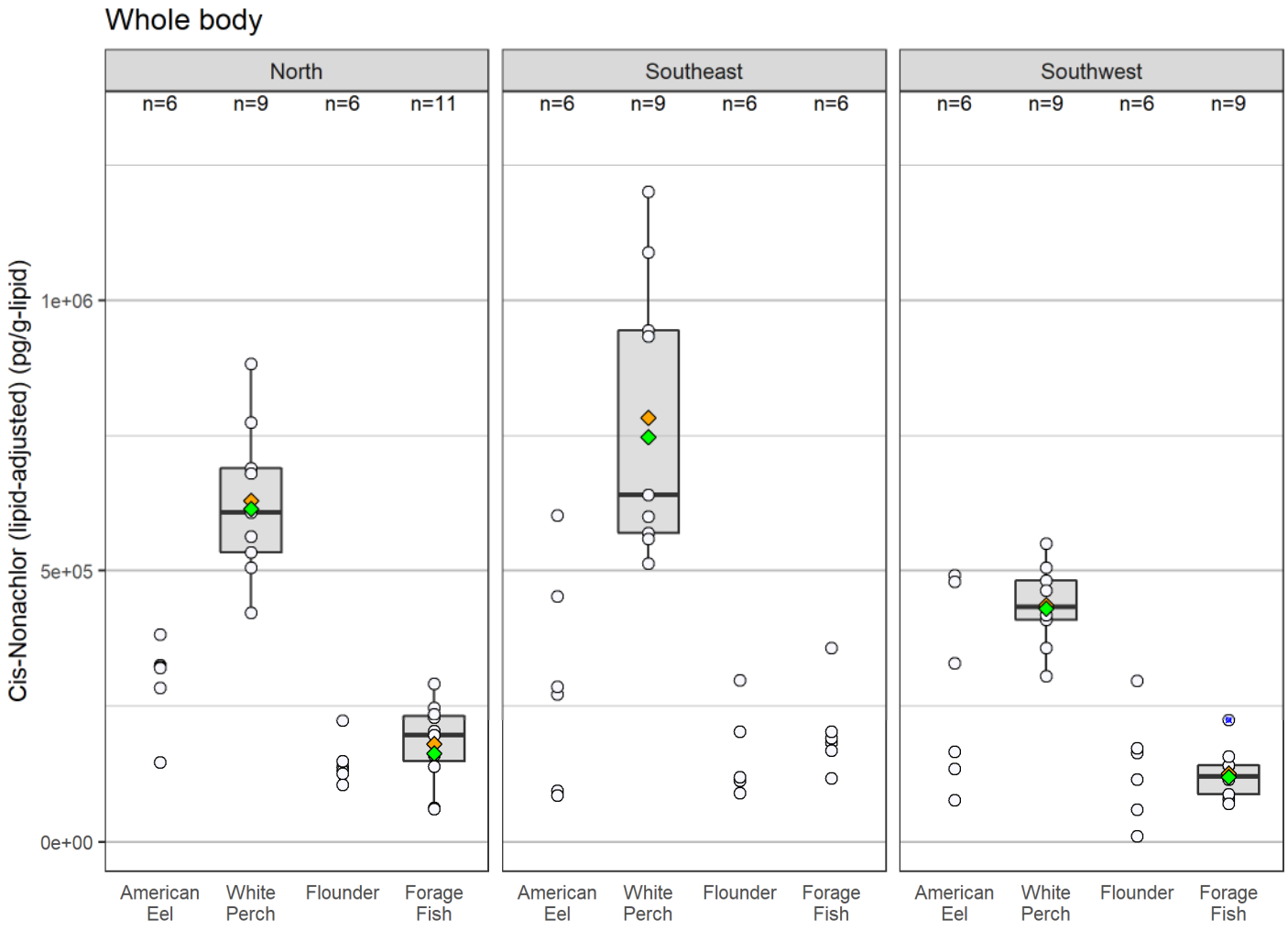
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

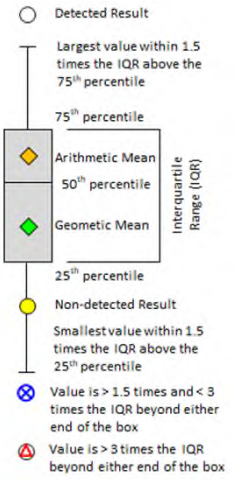
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - BETA-BHC (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-129





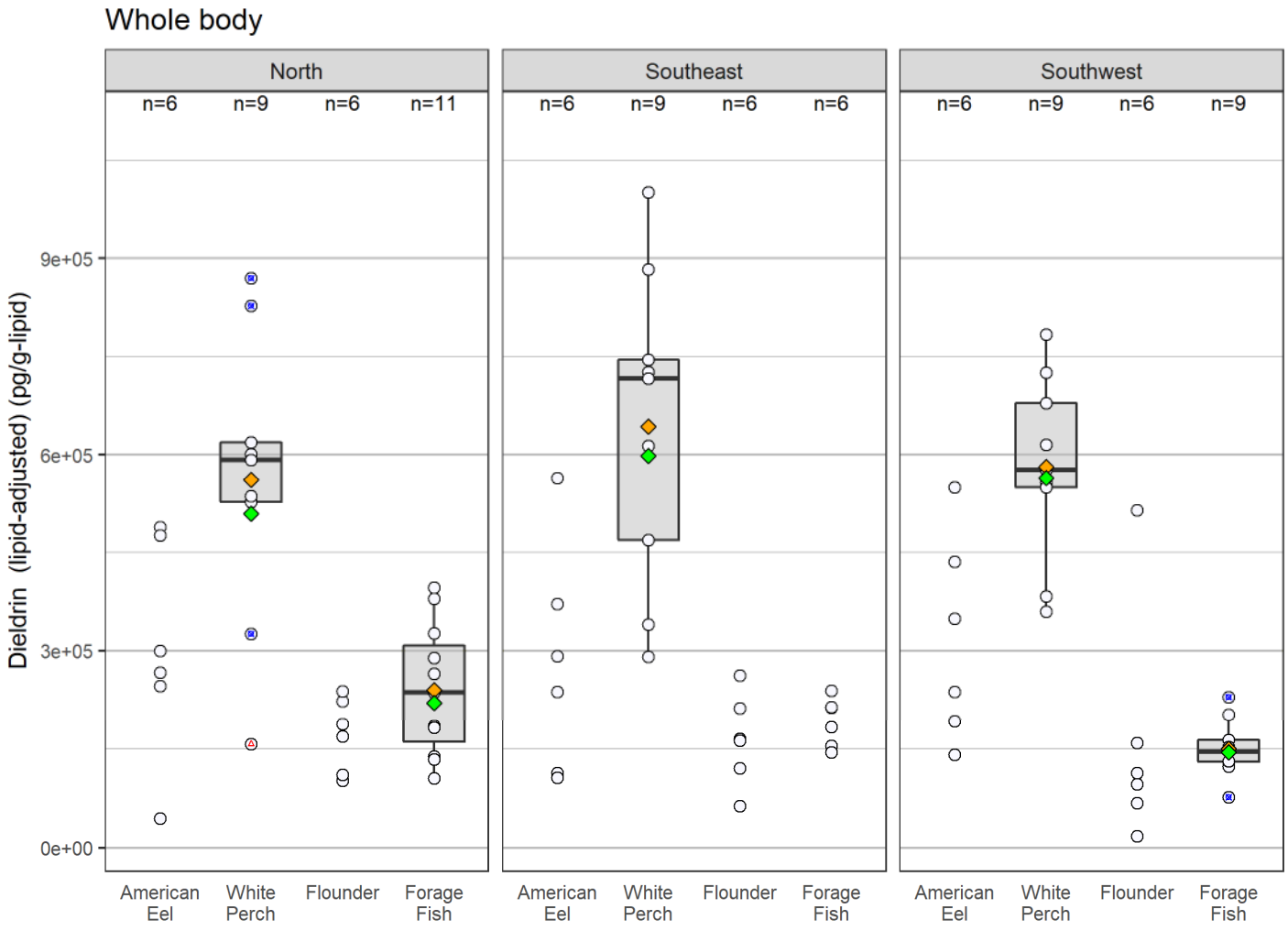
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

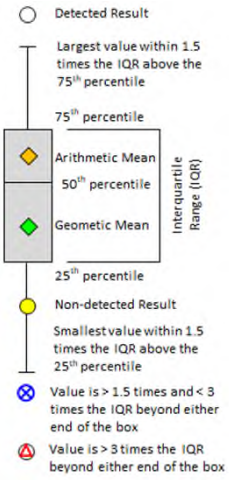
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - CIS-NONACHLOR (LIPID-ADJUSTED)

OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-130





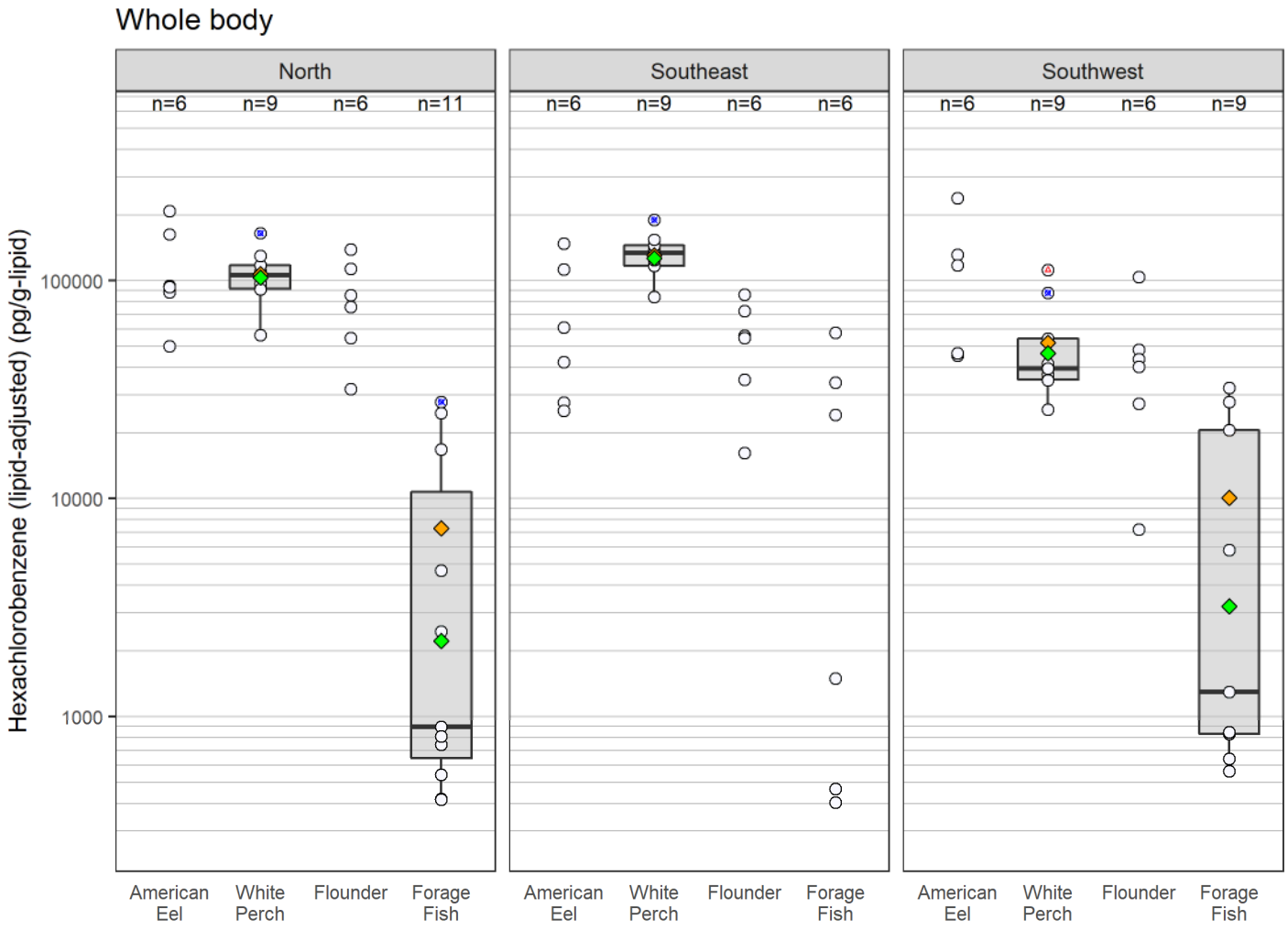
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

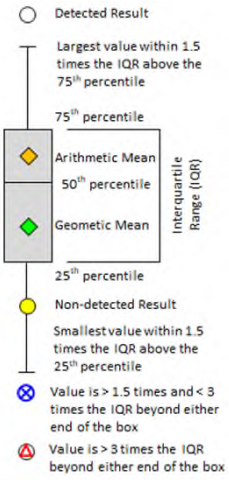
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - DIELDRIN (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-131





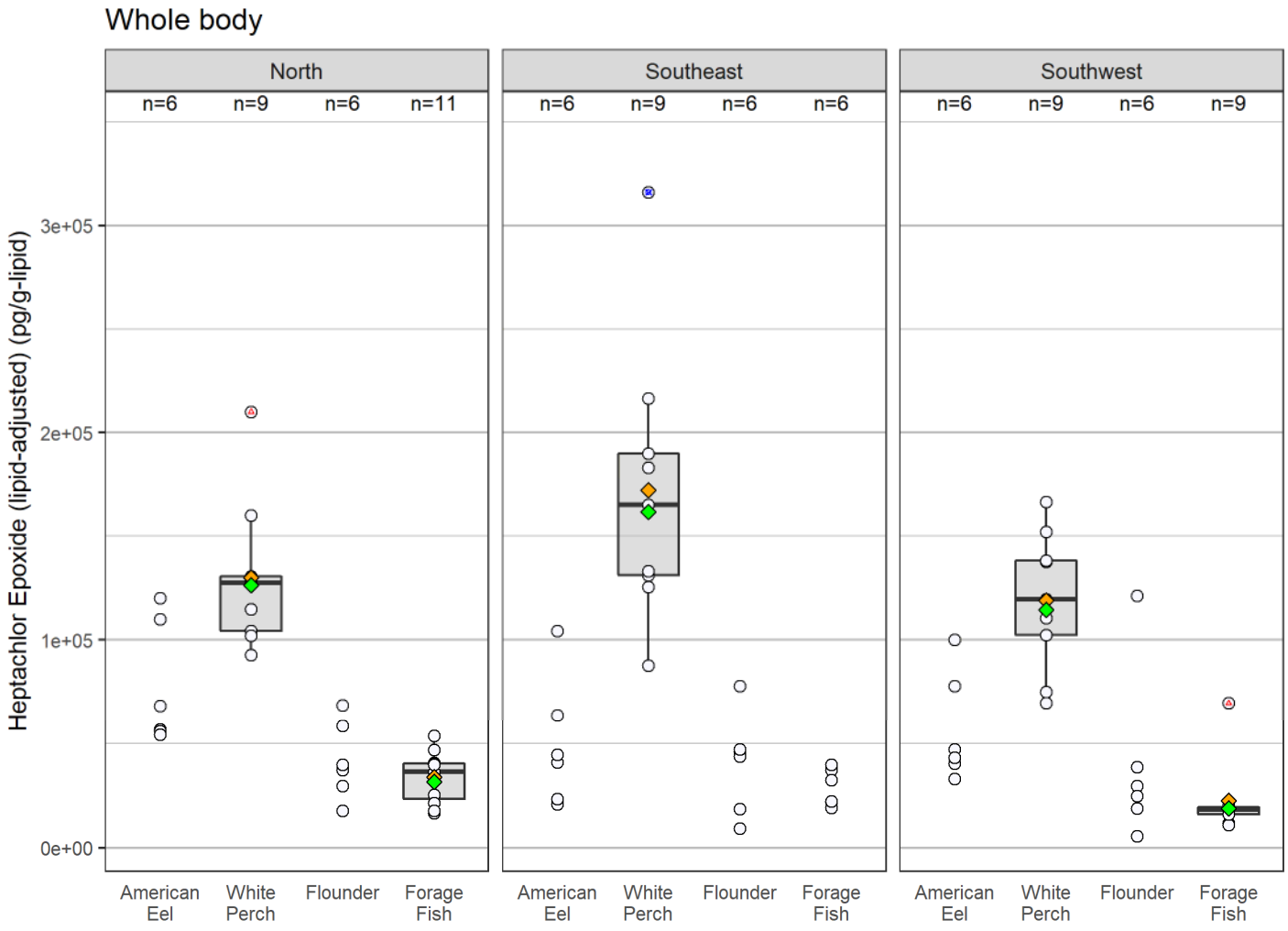
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

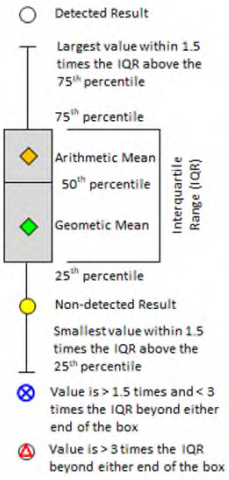
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - HEXACHLOROBENZENE (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-132





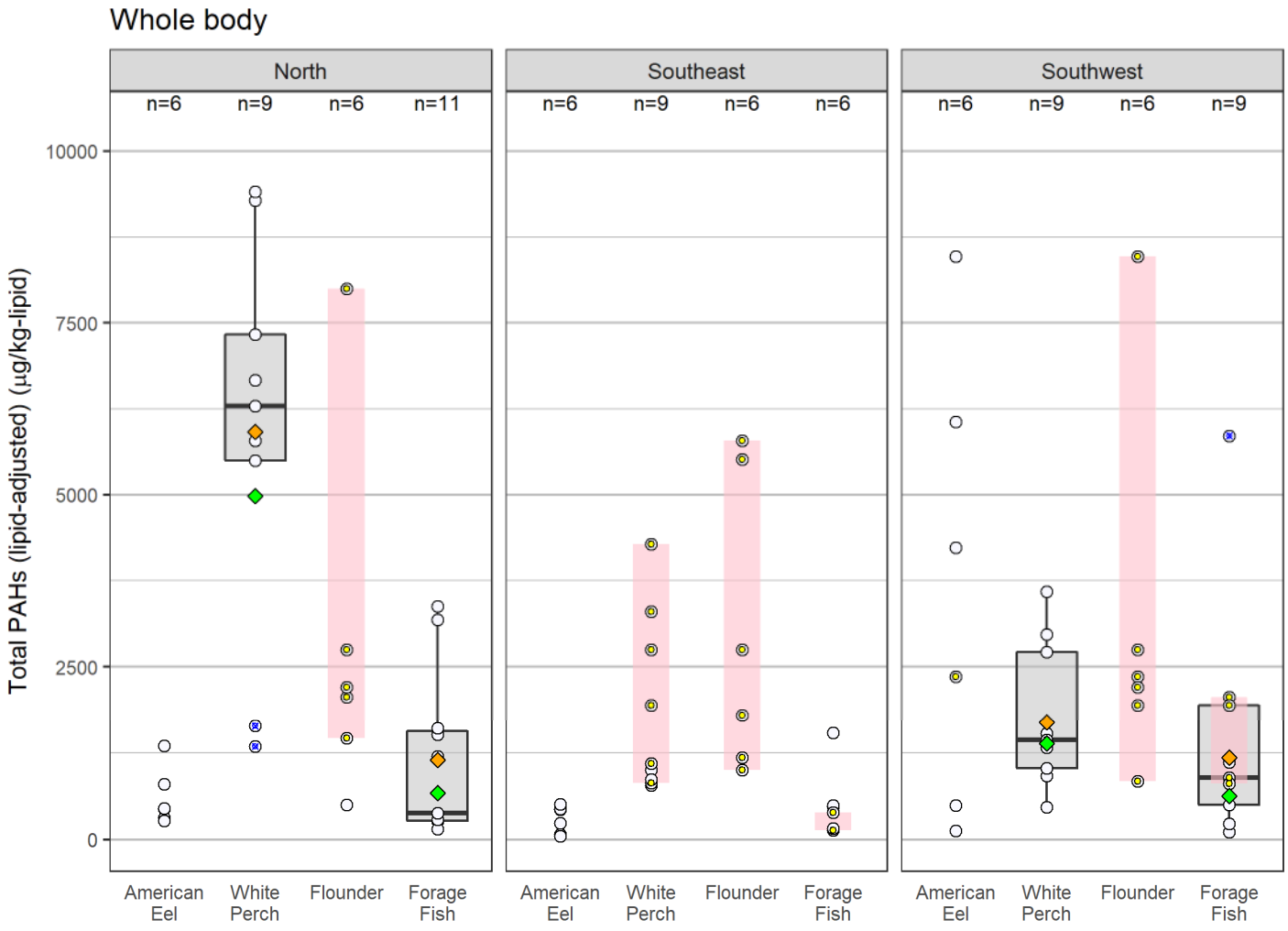
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

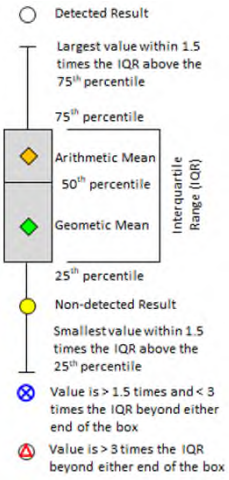
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - HEPTACHLOR EPOXIDE (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-133





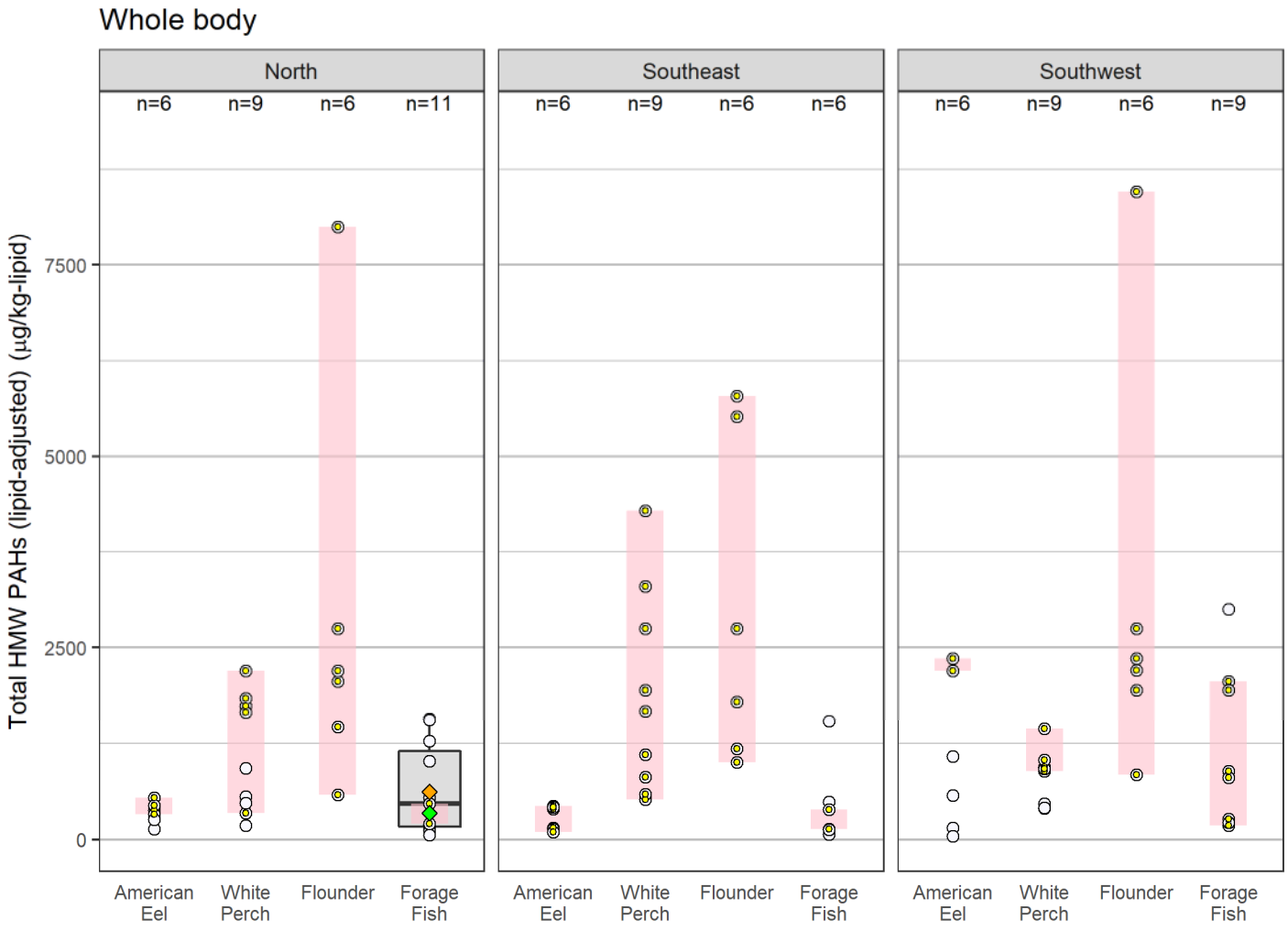
Notes:
n = number of samples
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For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

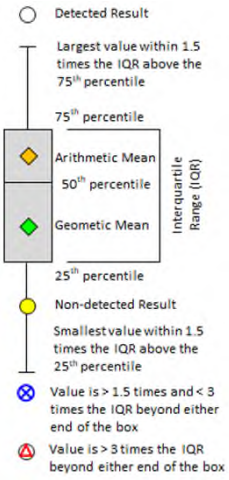
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-134





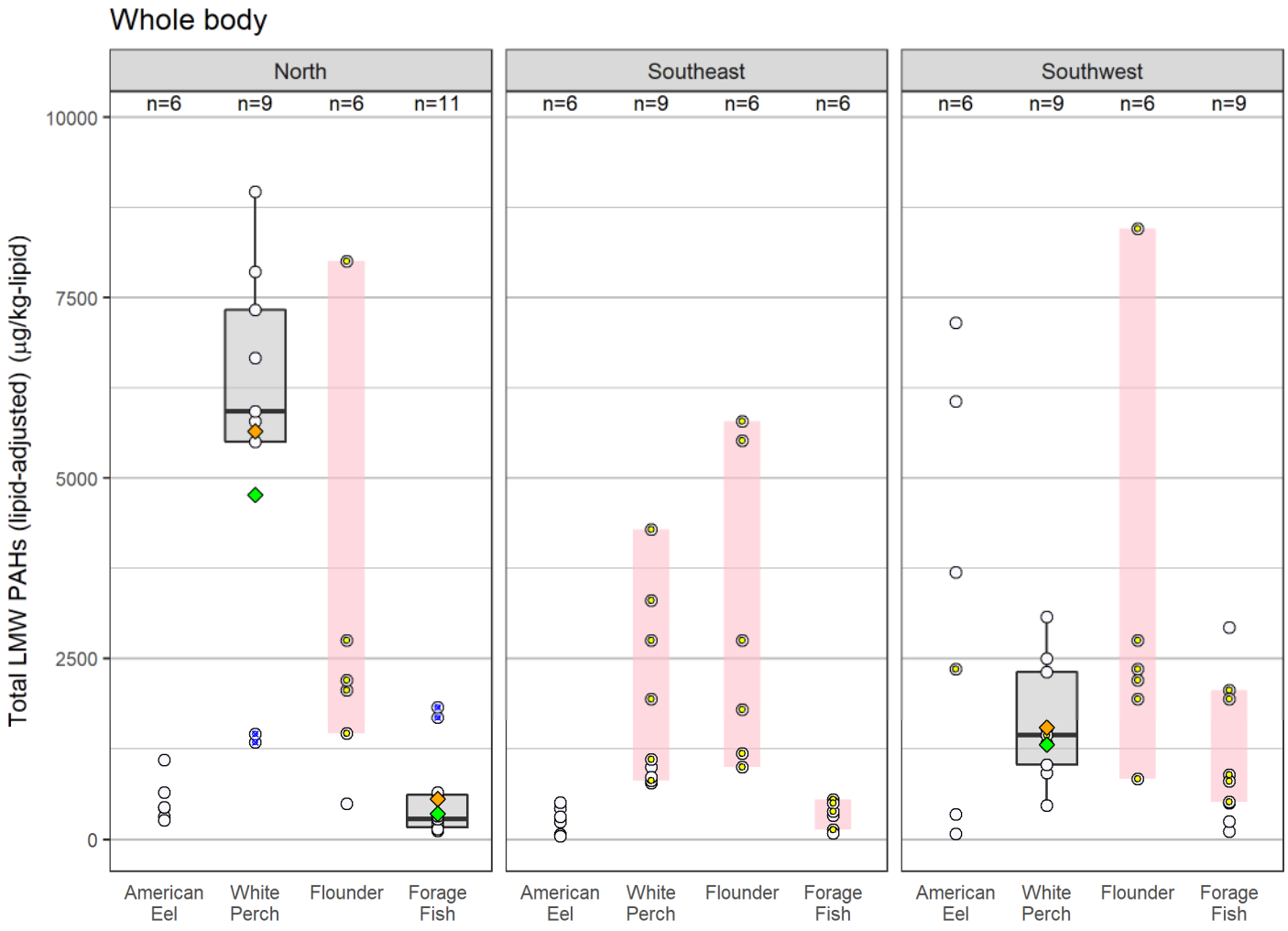
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
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For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
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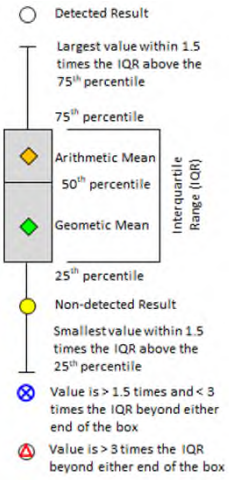
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL HMW PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-135





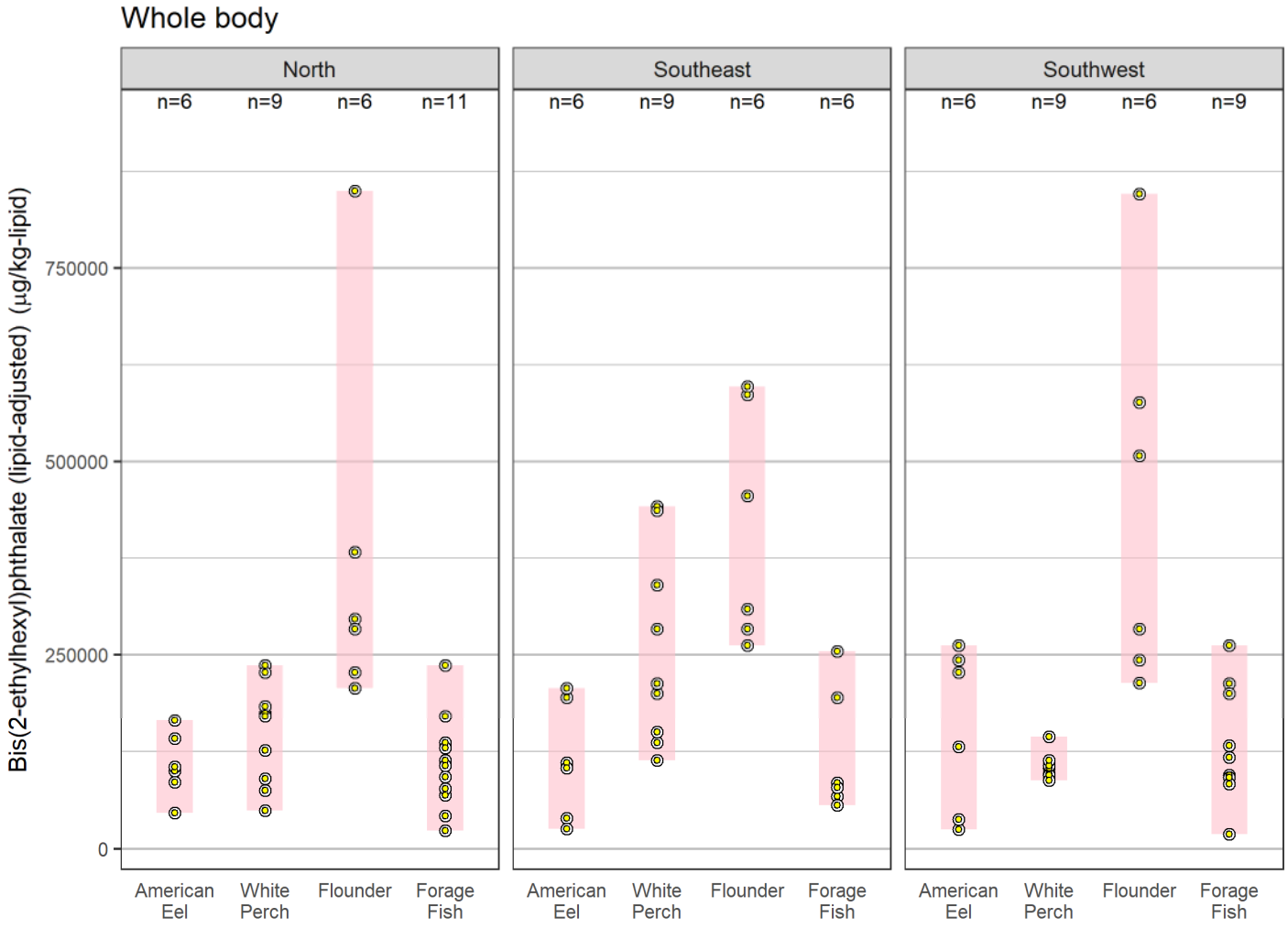
Notes:
n = number of samples
Non-detects plotted at the quantitation limit.
For percentiles, non-detects included at the quantitation limit.
For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

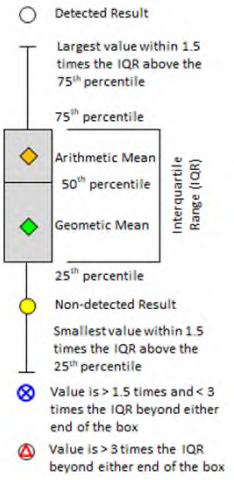
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

FISH RESULTS - TOTAL LMW PAHS (LIPID-ADJUSTED)

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-136





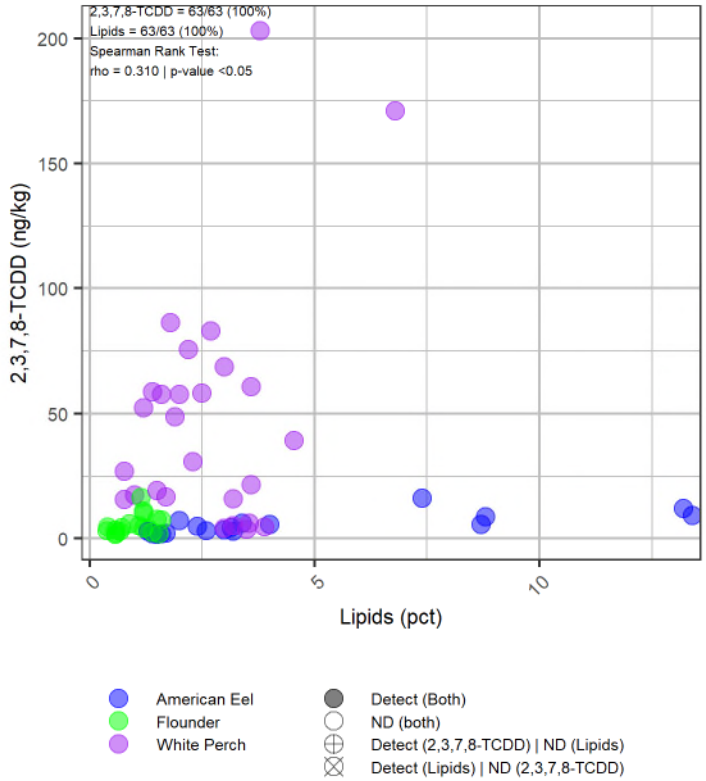
Notes:
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Non-detects plotted at the quantitation limit.
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For arithmetic mean and geometric mean, non-detects included at 1/2 the quantitation limit.
Pink shaded area represents range of non-detect quantitation limits.
Percentiles/mean not estimated for n<8 and/or frequency of detection<50%.

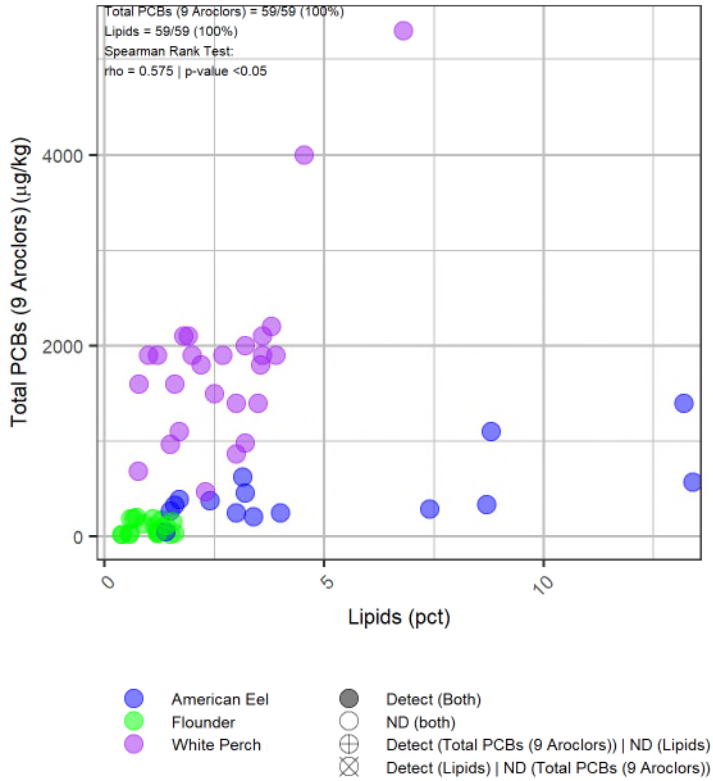
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

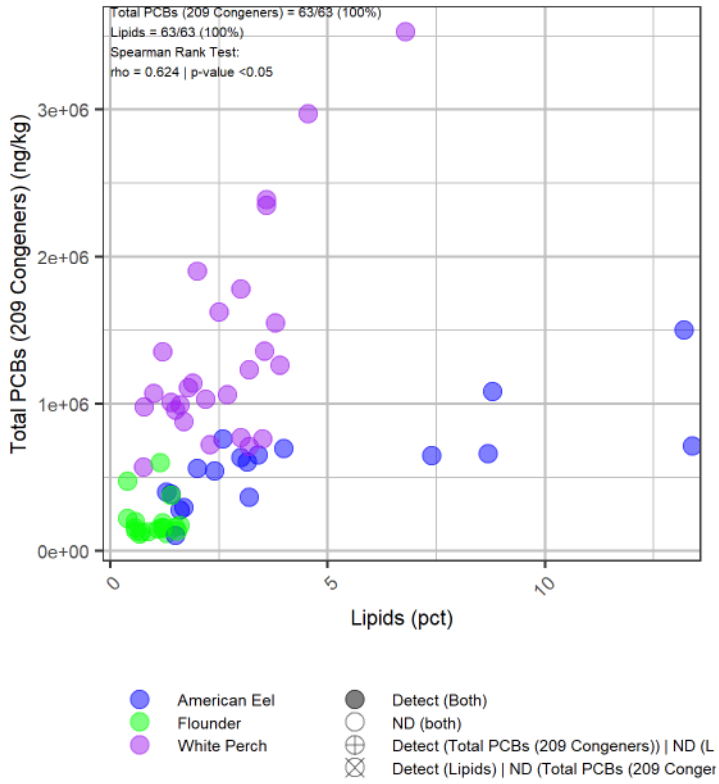
FISH RESULTS - BIS(2-ETHYLHEXYL)PHTHALATE (LIPID-ADJUSTED)

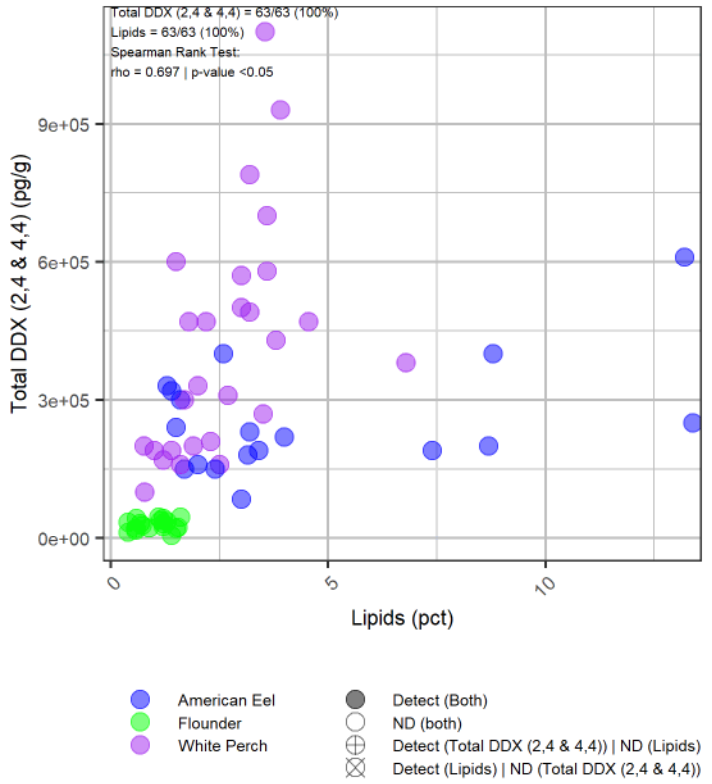
OXY Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-137









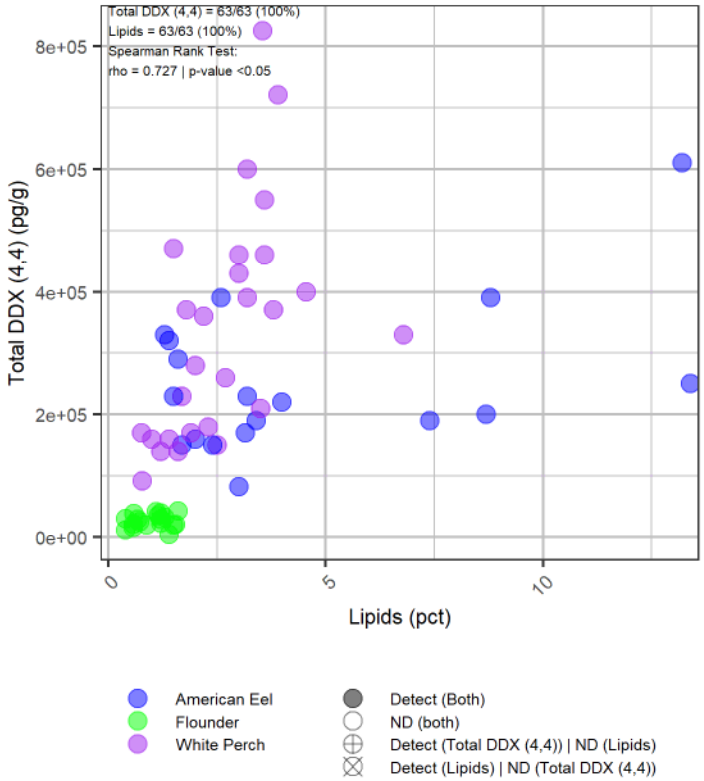
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

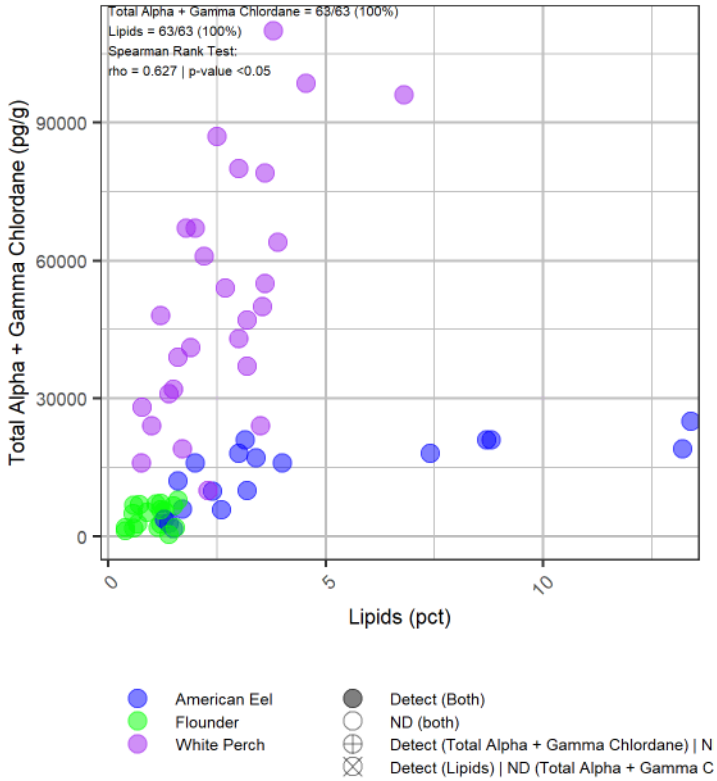
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

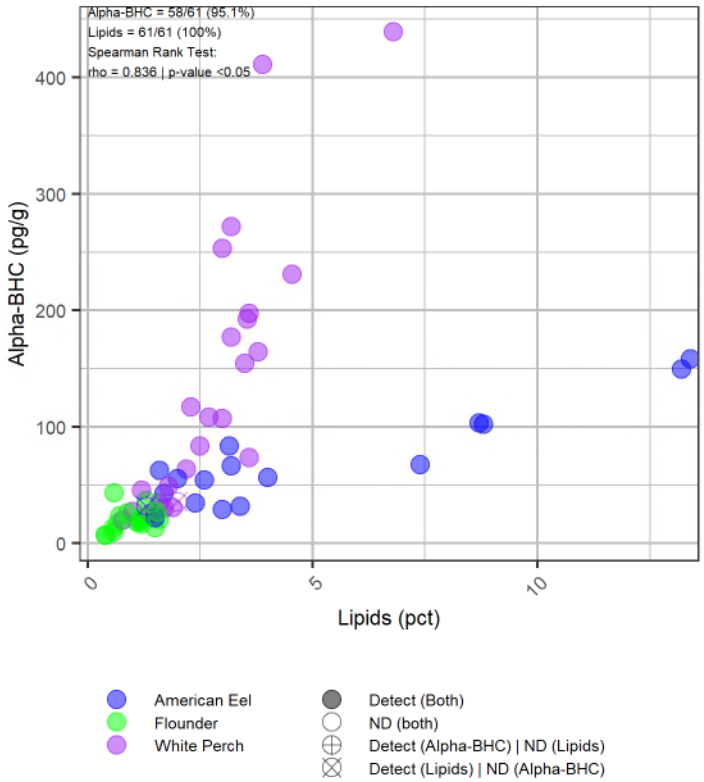
LIPID CORRELATION - WHOLE BODY SPORT FISH

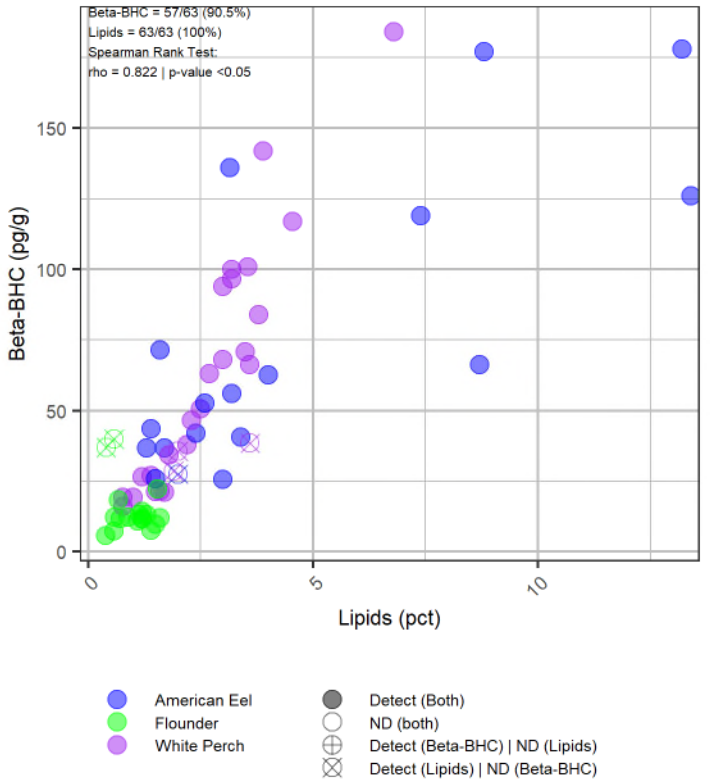
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-138









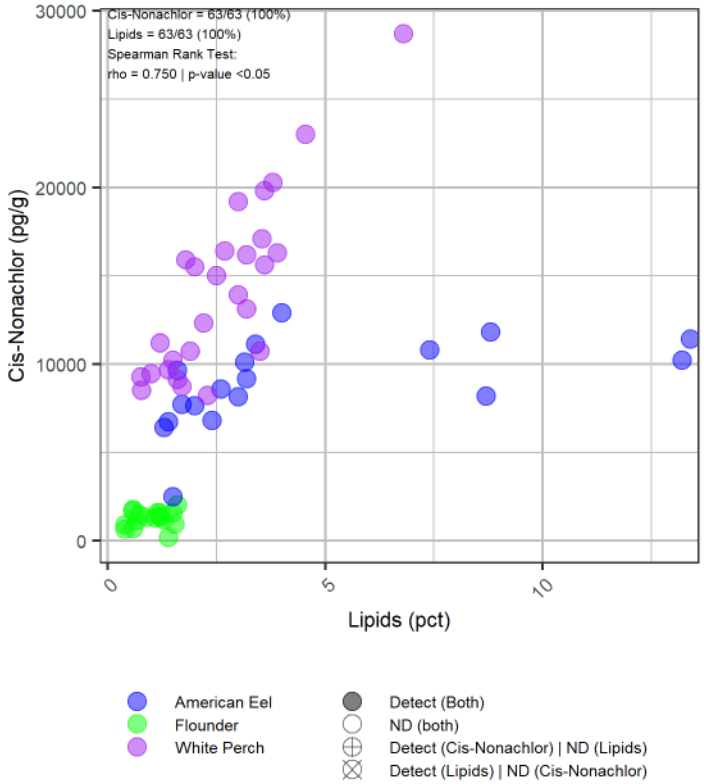
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

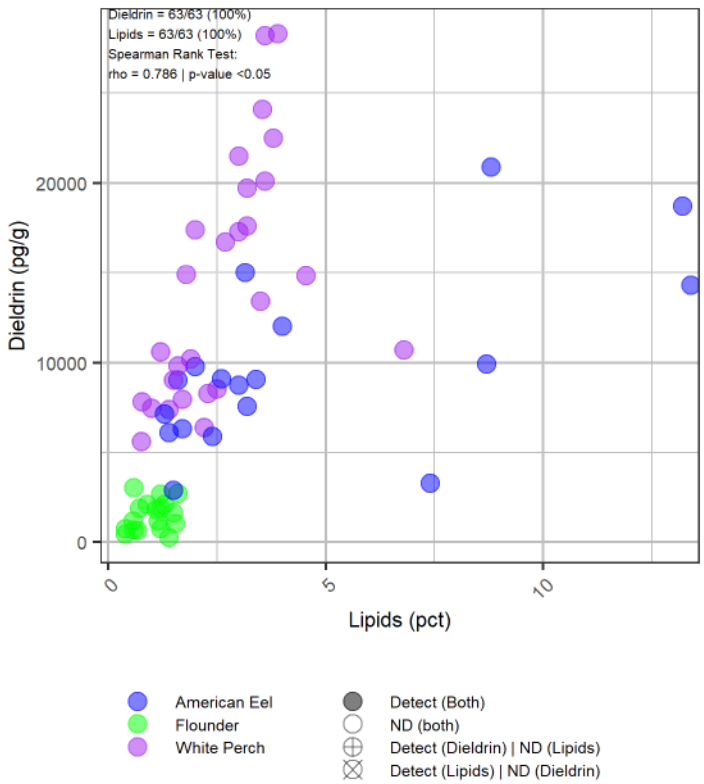
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

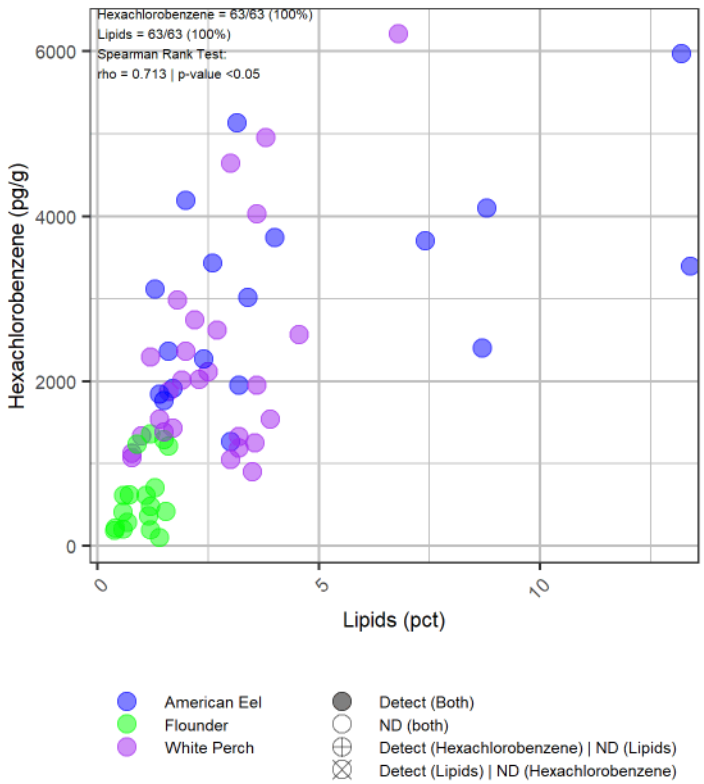
LIPID CORRELATION - WHOLE BODY SPORT FISH

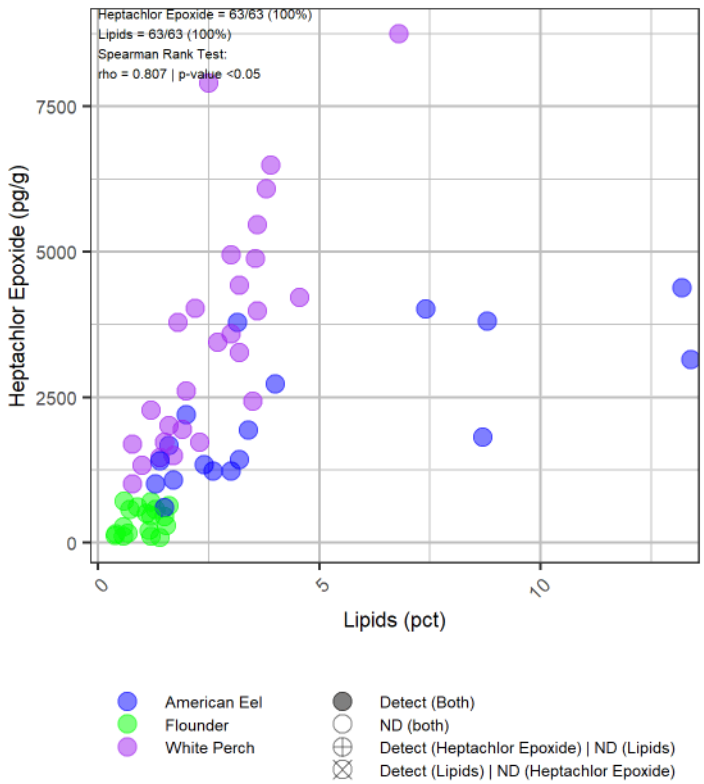
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-139









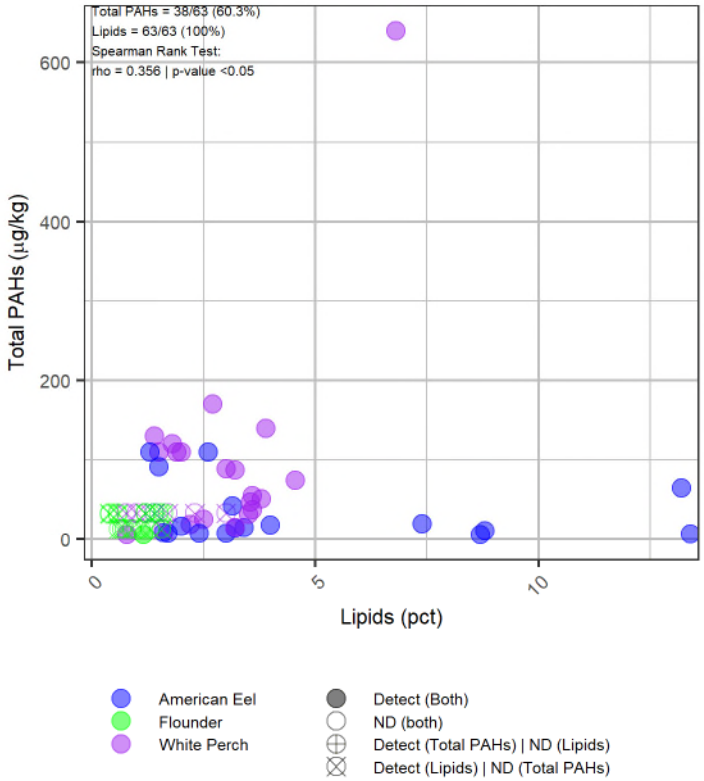
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

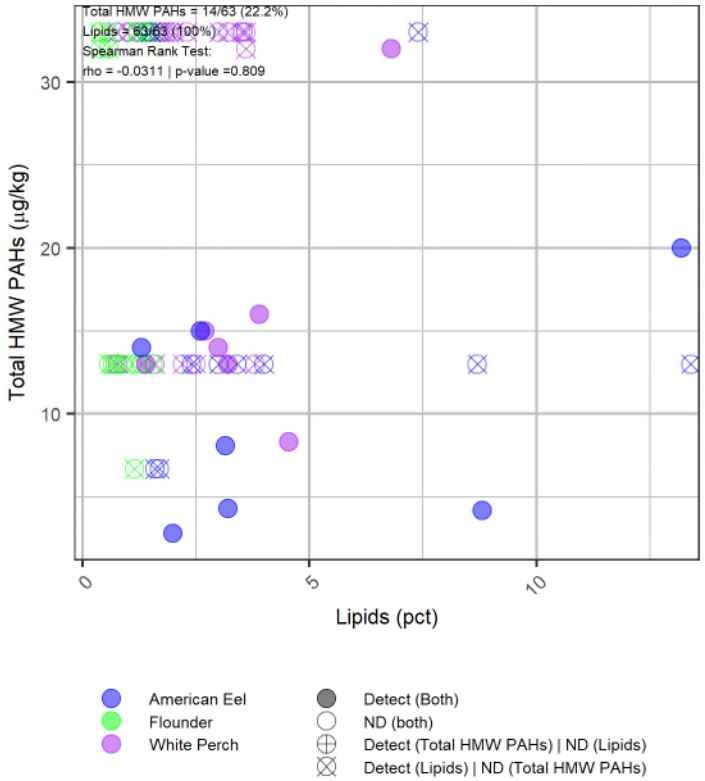
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

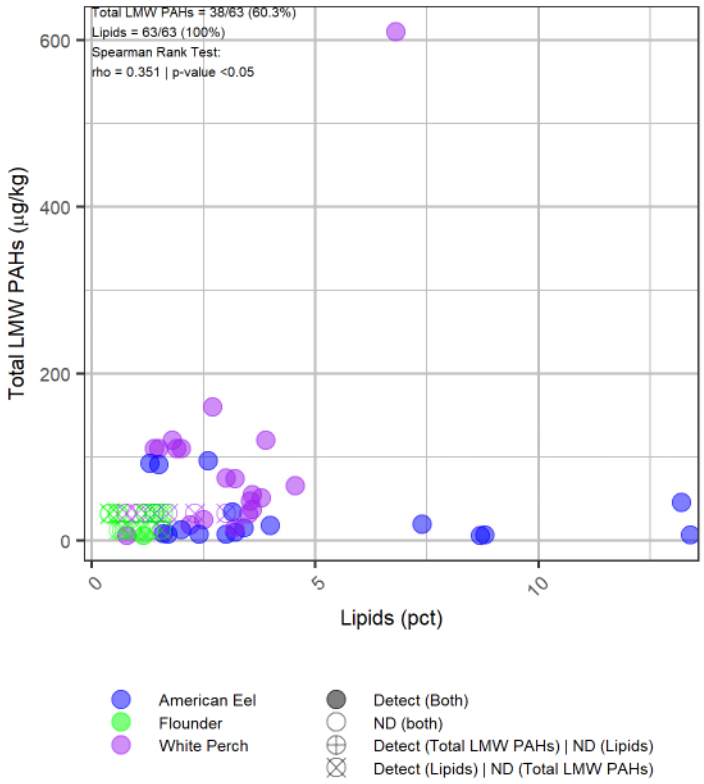
LIPID CORRELATION - WHOLE BODY SPORT FISH

Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-140







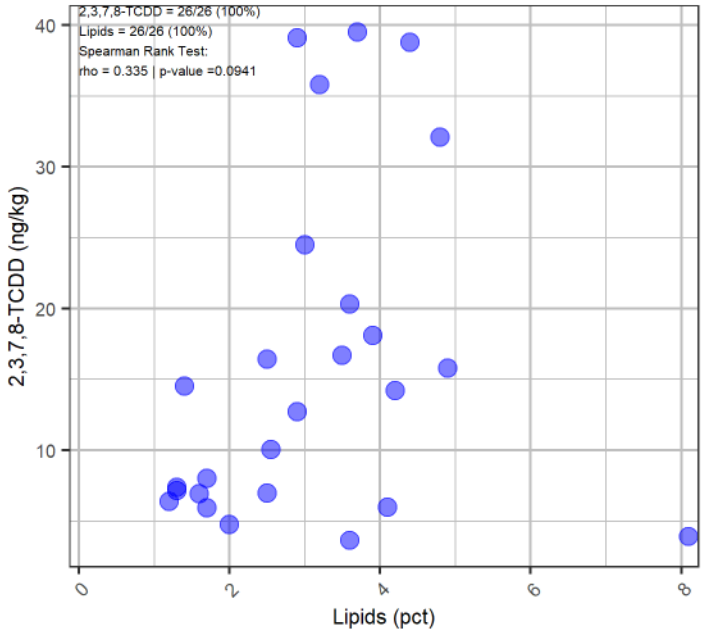
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For correlation analysis, non-detects included at 1/2 the quantitation limit.
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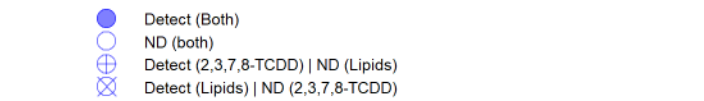
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

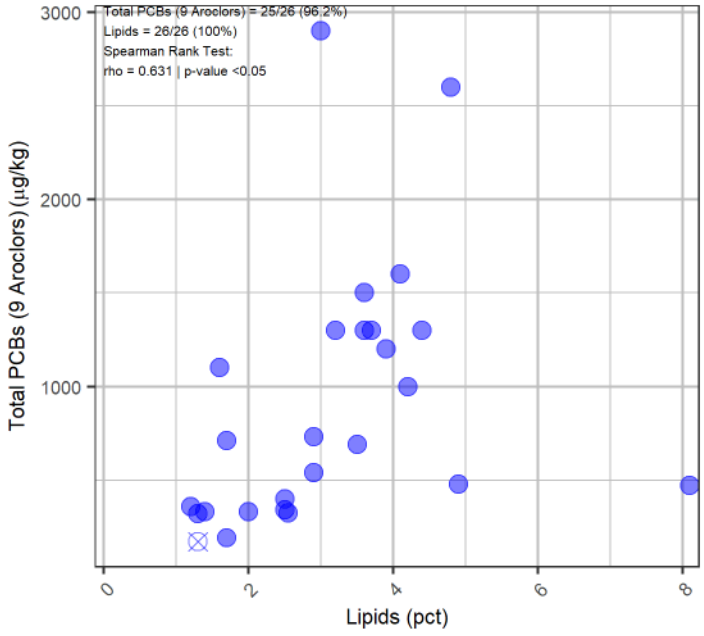
LIPID CORRELATION - WHOLE BODY SPORT FISH

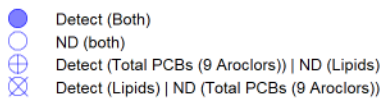
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

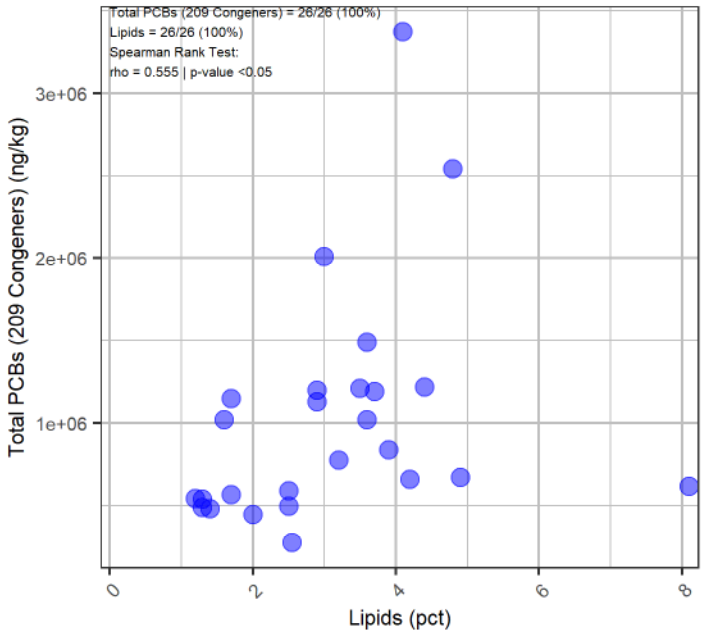
FIGURE
I-141

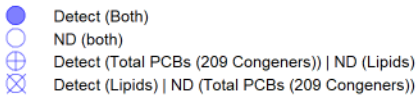


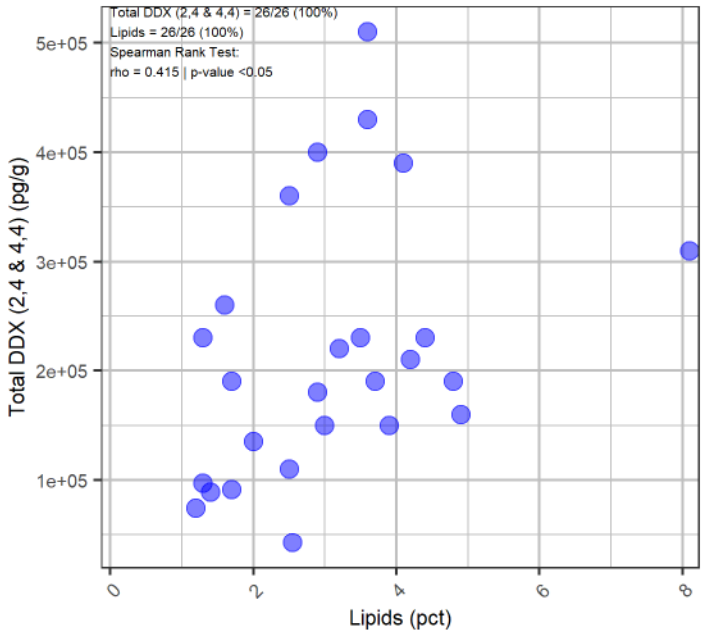


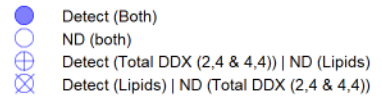












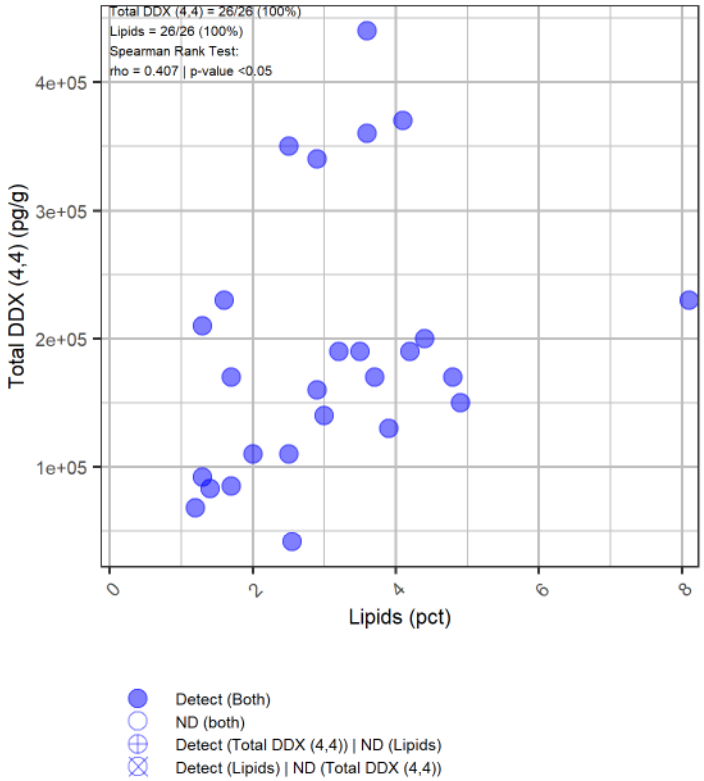
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

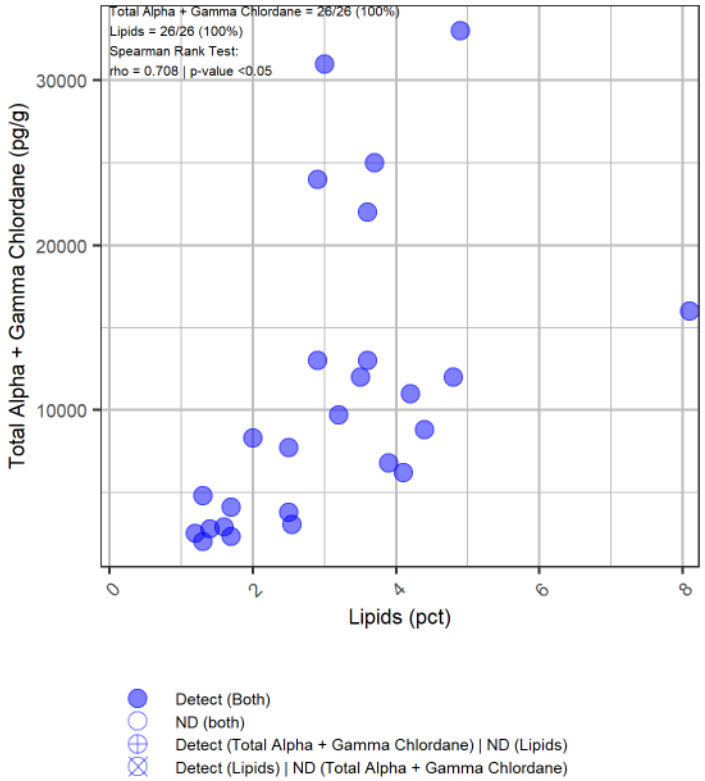
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

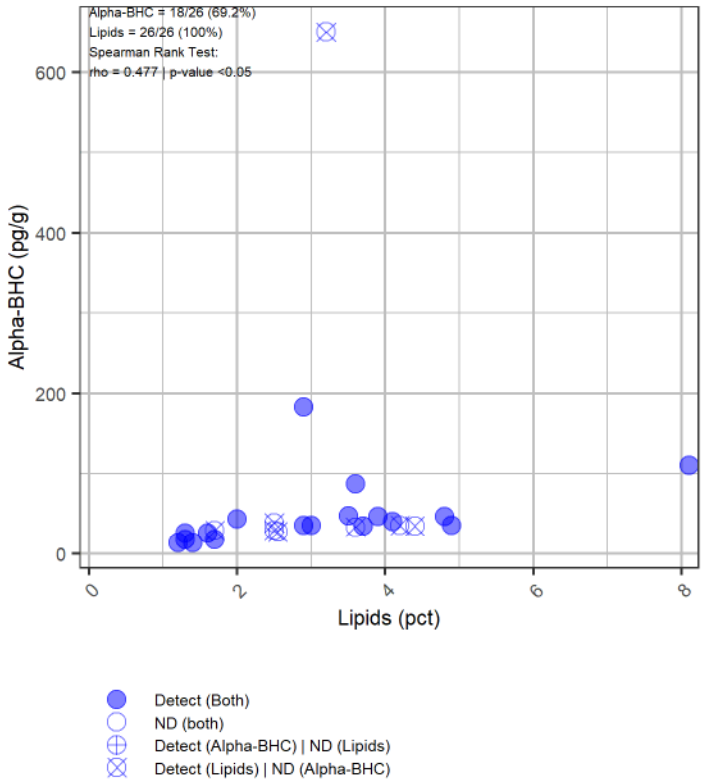
LIPID CORRELATION - WHOLE BODY FORAGE FISH

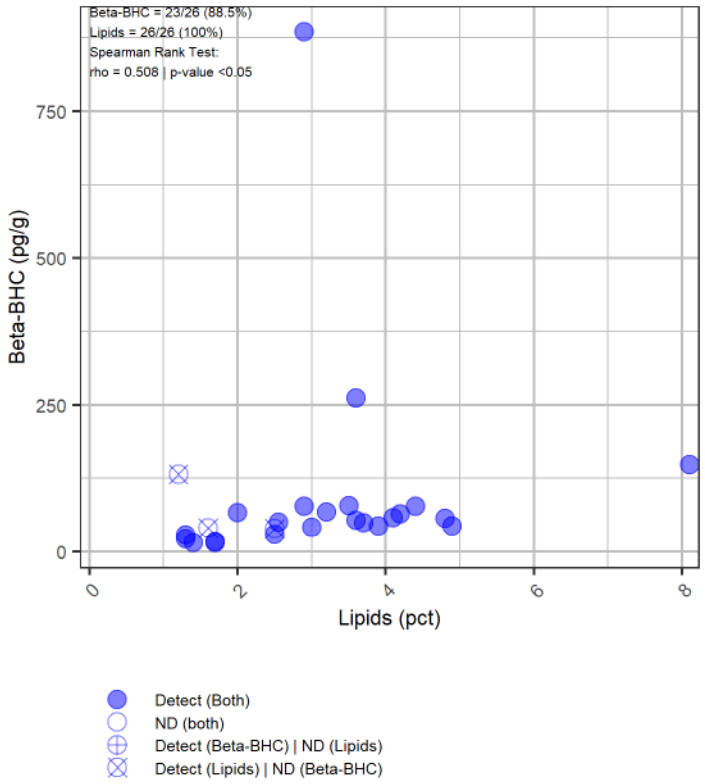
Glenn Springs Holdings, Inc.
A subsidiary of Occidental Petroleum Corporation

FIGURE
I-142









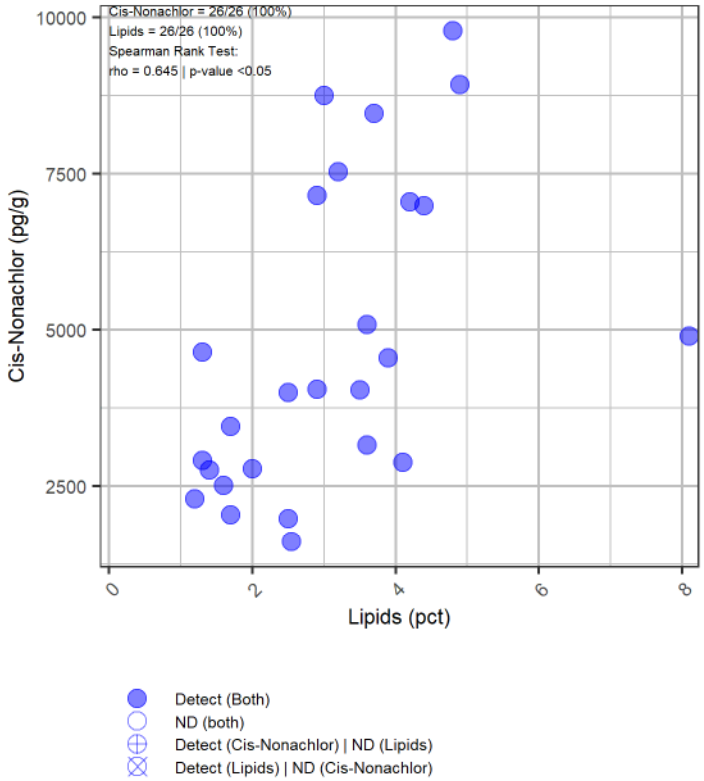
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

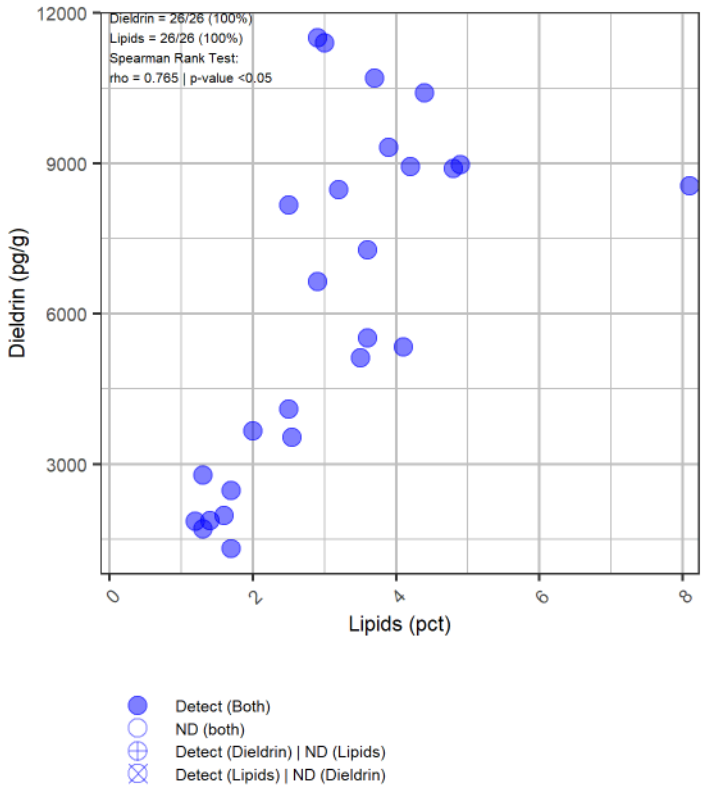
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

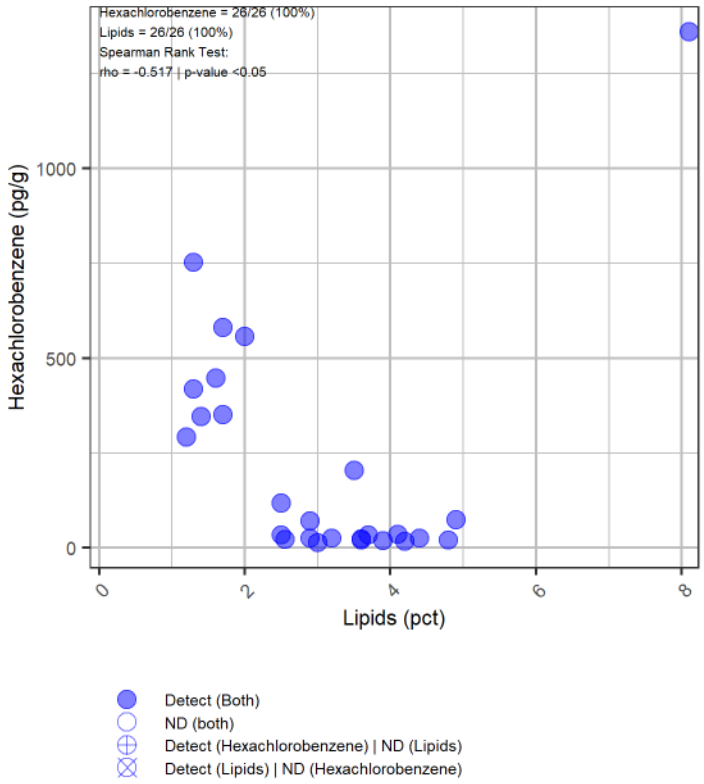
LIPID CORRELATION - WHOLE BODY FORAGE FISH

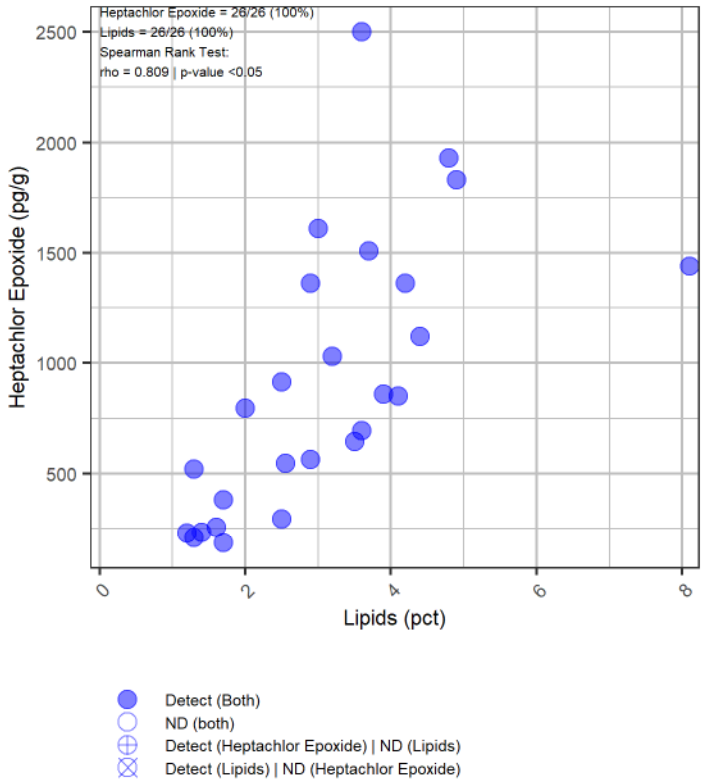
Glenn Springs Holdings, Inc.
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FIGURE
I-143









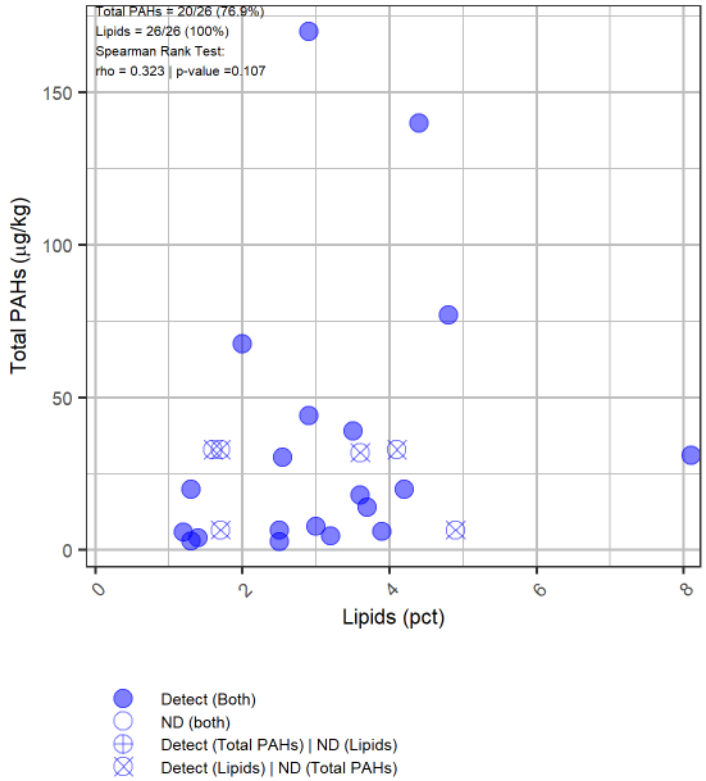
Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

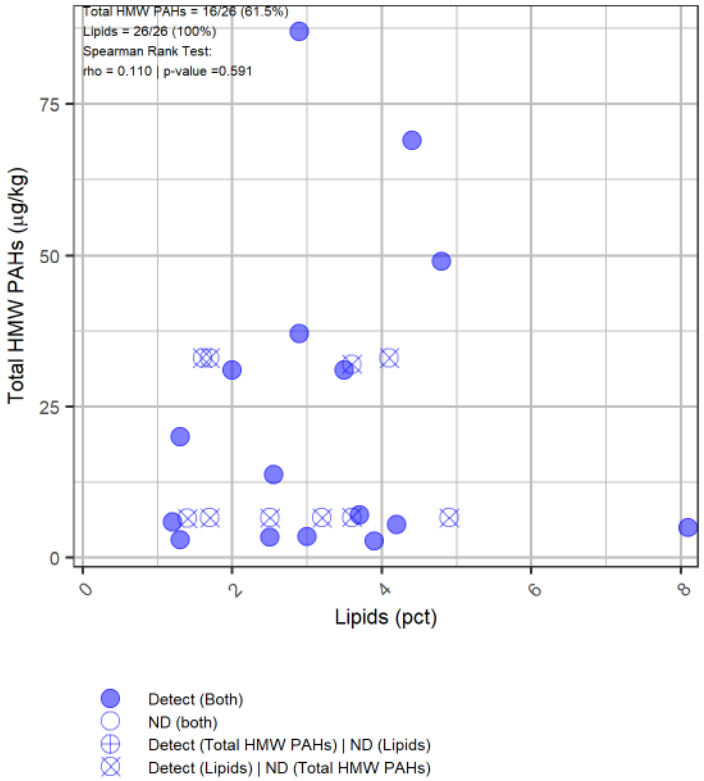
DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

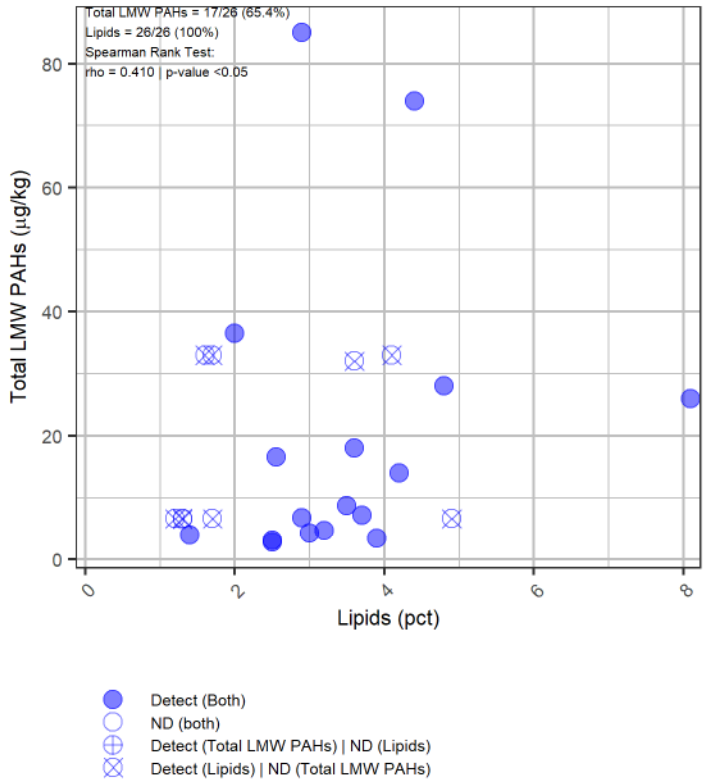
LIPID CORRELATION - WHOLE BODY FORAGE FISH

Glenn Springs Holdings, Inc.
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FIGURE
I-144







Notes:
For correlation analysis, non-detects included at 1/2 the quantitation limit.
Non-detects plotted at the quantitation limit.

DIAMOND ALKALI SUPERFUND SITE
NEWARK BAY STUDY AREA REMEDIAL INVESTIGATION
REMEDIAL INVESTIGATION REPORT

LIPID CORRELATION - WHOLE BODY FORAGE FISH

Glenn Springs Holdings, Inc.
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FIGURE
I-145

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

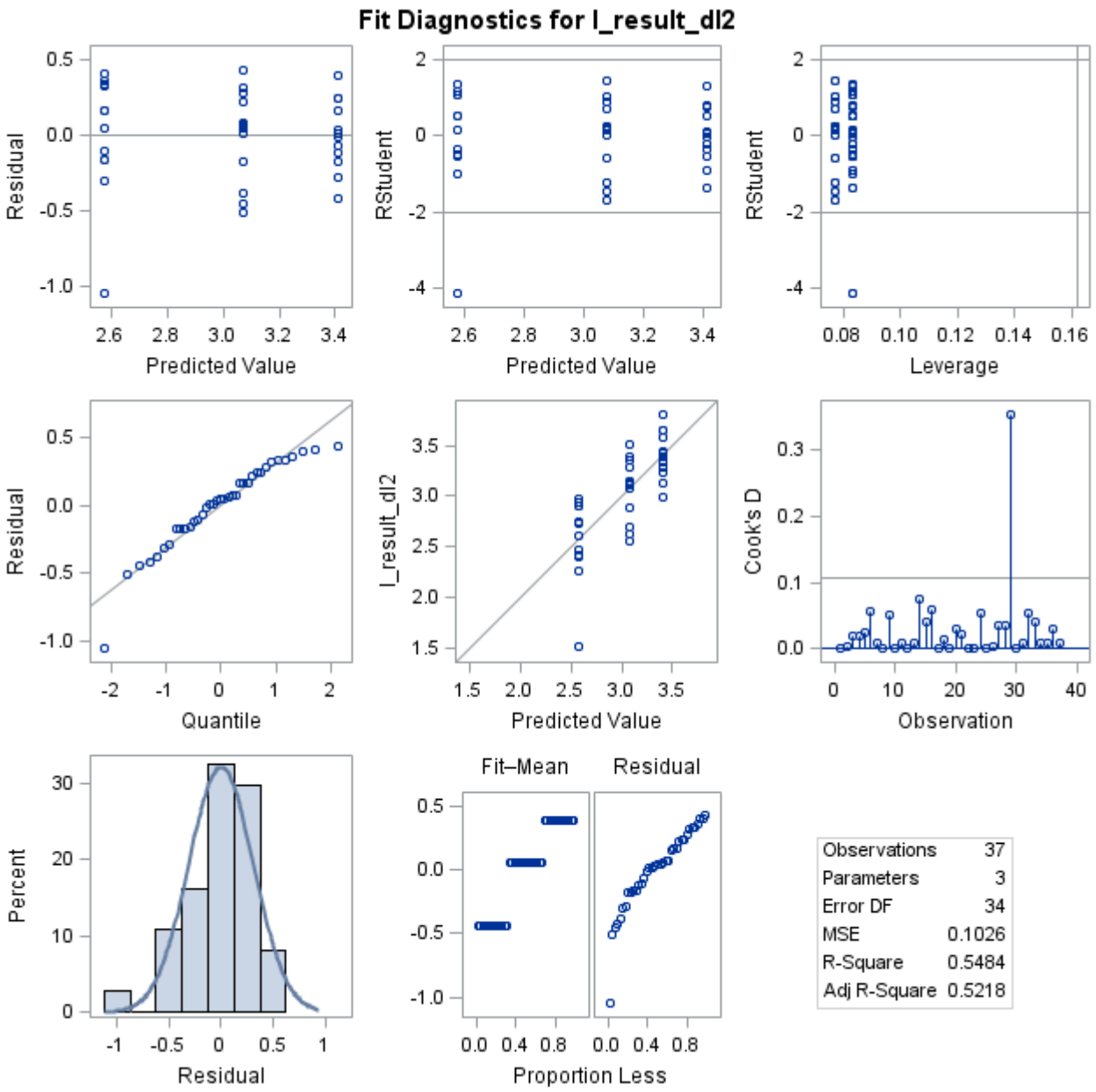
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	4.23692626	2.11846313	20.64	<.0001
Error	34	3.48927191	0.10262564		
Corrected Total	36	7.72619817			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.548384	10.60567	0.320352	3.020576

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	4.23692626	2.11846313	20.64	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	4.23692626	2.11846313	20.64	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.1026
R-Square 0.5484
Adj R-Square 0.5218

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0654	0.0327	0.97	0.3892
Error	34	1.1464	0.0337		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	19.19	<.0001
Error	21.6882		

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	3.40989002	0.23409245
Southeast	**13**	3.07255824	0.29743572
Southwest	**12**	2.57494785	0.40730419

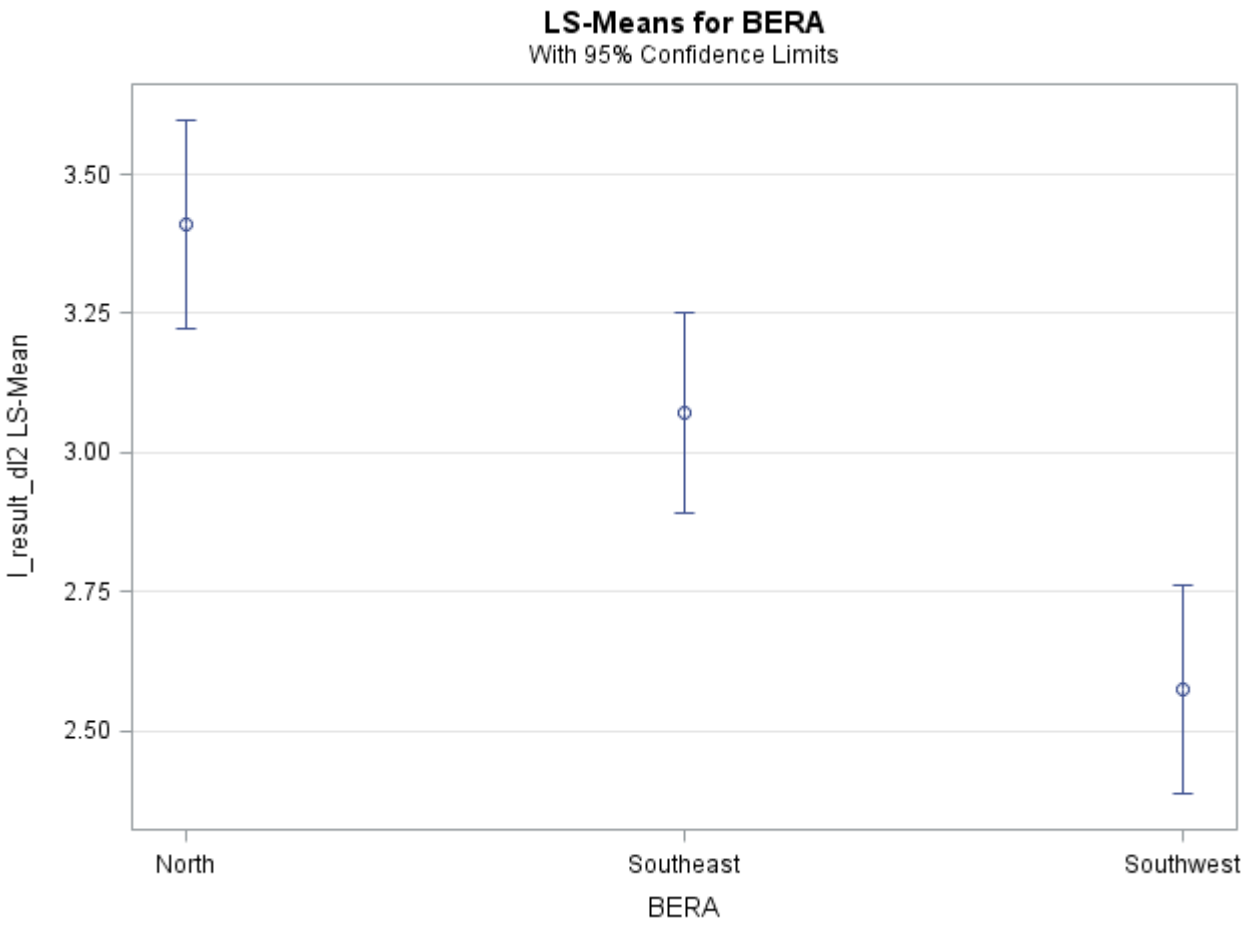
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.40989002	1
Southeast	3.07255824	2
Southwest	2.57494785	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0332	<.0001
2	0.0332		0.0013
3	<.0001	0.0013	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.50
3.25
3.00
2.75
2.50
North
Southeast
Southwest
BERA

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

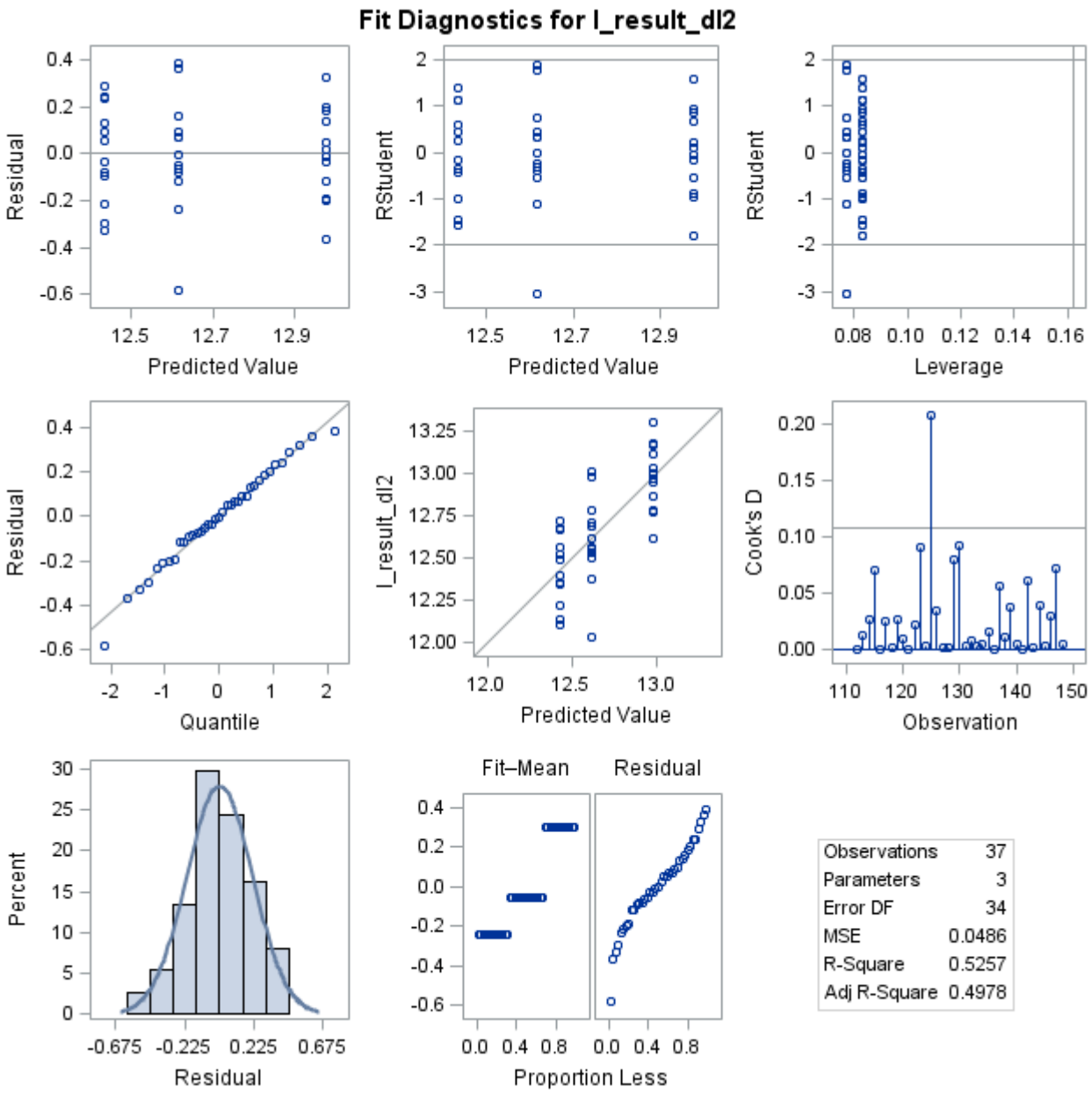
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.83253893	0.91626946	18.84	<.0001
Error	34	1.65331755	0.04862699		
Corrected Total	36	3.48585648			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.525707	1.739908	0.220515	12.67396

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.83253893	0.91626946	18.84	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.83253893	0.91626946	18.84	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0486
R-Square 0.5257
Adj R-Square 0.4978

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00330	0.00165	0.38	0.6898
Error	34	0.1496	0.00440		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	21.60	<.0001
Error	22.6266		

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	12.9760506	0.19686770
Southeast	**13**	12.6173855	0.24907257
Southwest	**12**	12.4331583	0.20944646

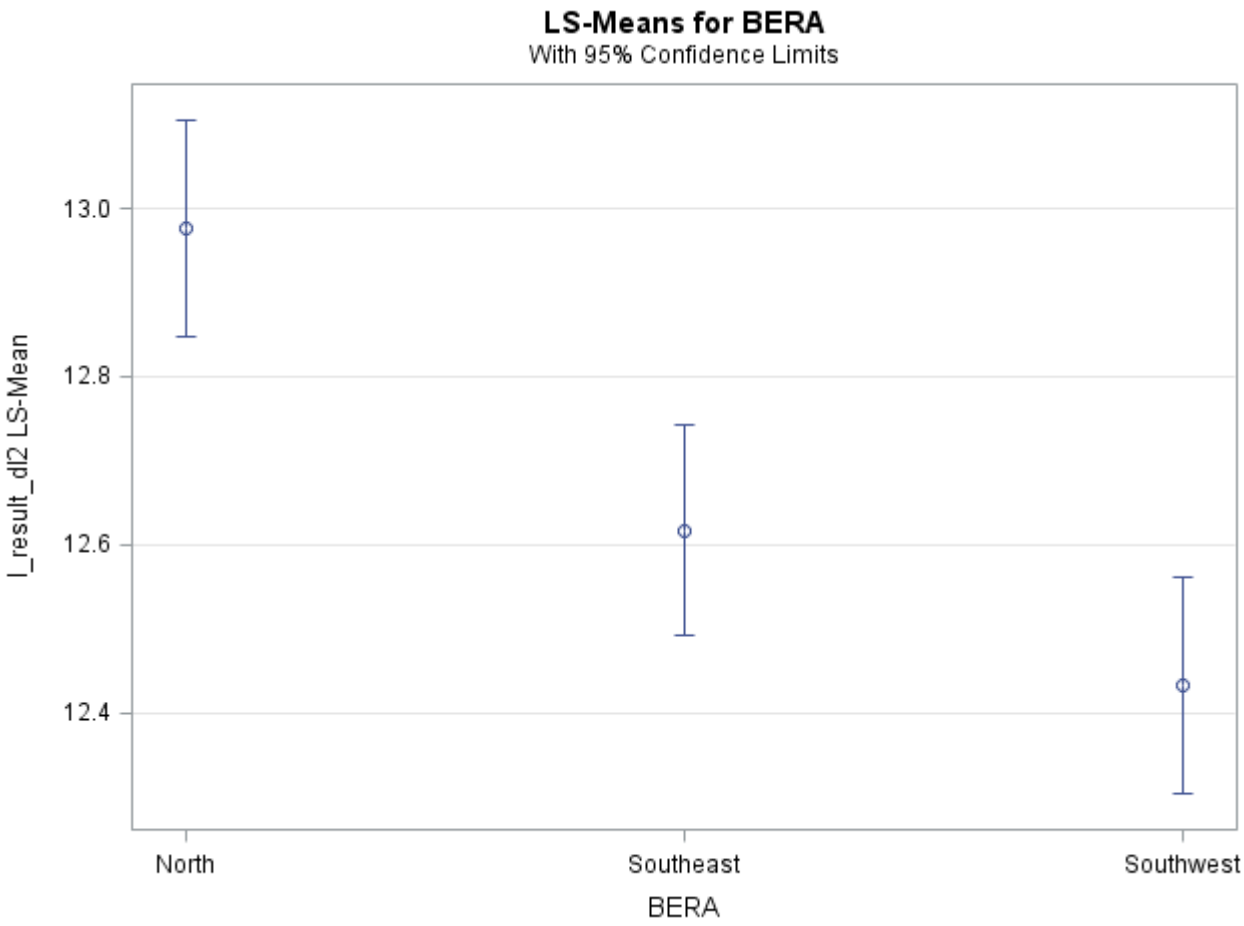
PCBs Total PCBs congener (209 specified)
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.9760506	1
Southeast	12.6173855	2
Southwest	12.4331583	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0008	<.0001
2	0.0008		0.1076
3	<.0001	0.1076	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.8
12.6
12.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	36
Number of Observations Used	36

Pesticides Dieldrin
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

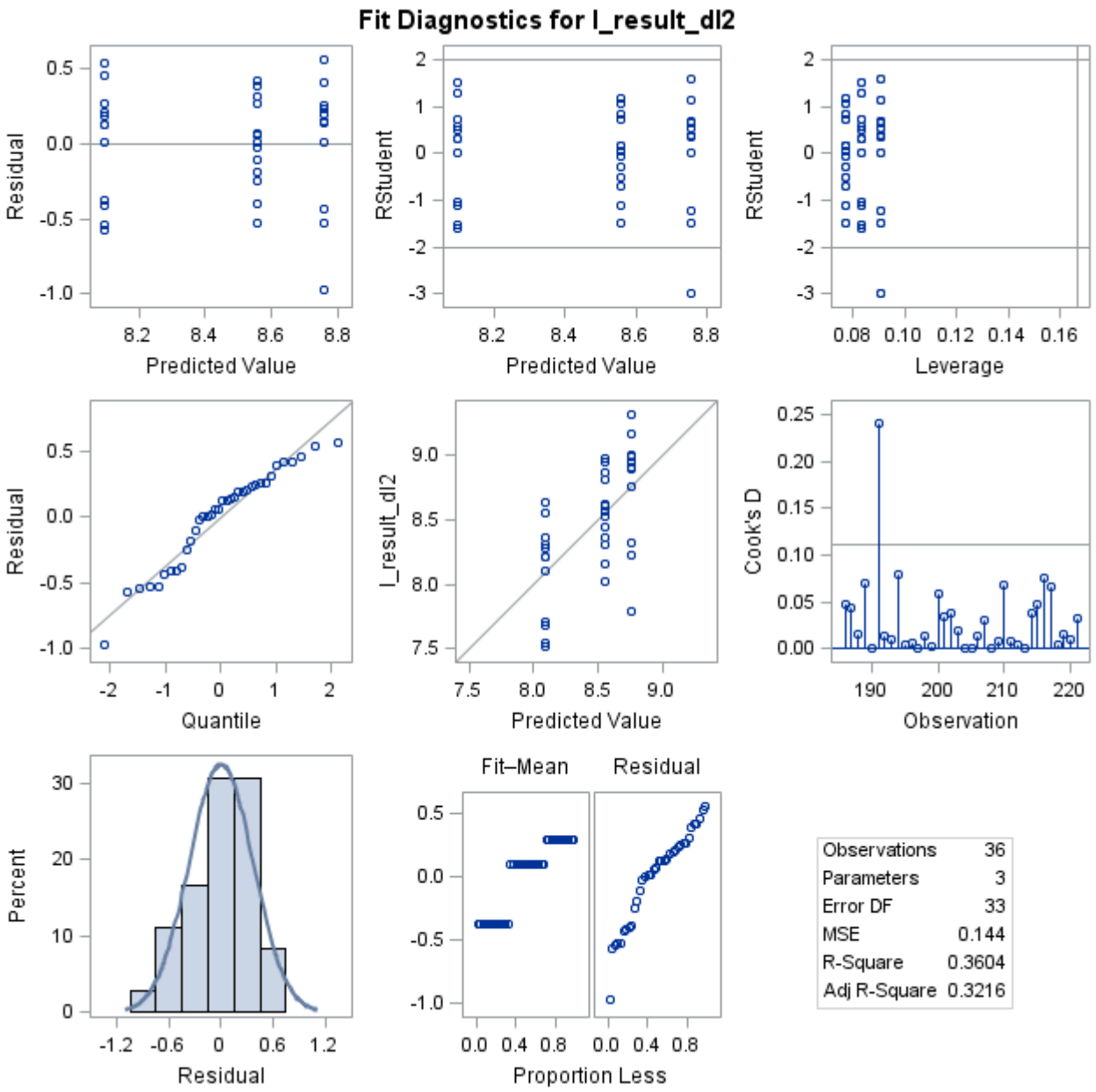
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.67801723	1.33900861	9.30	0.0006
Error	33	4.75296160	0.14402914		
Corrected Total	35	7.43097883			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.360386	4.484270	0.379512	8.463177

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.67801723	1.33900861	9.30	0.0006

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.67801723	1.33900861	9.30	0.0006


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 36
Parameters 3
Error DF 33
MSE 0.144
R-Square 0.3604
Adj R-Square 0.3216

Pesticides Dieldrin
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0705	0.0352	1.16	0.3261
Error	33	1.0031	0.0304		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	8.17	0.0025
Error	20.3667		

Pesticides Dieldrin
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**11**	8.75580740	0.45693384
Southeast	**13**	8.55532186	0.29641302
Southwest	**12**	8.09510993	0.38266388

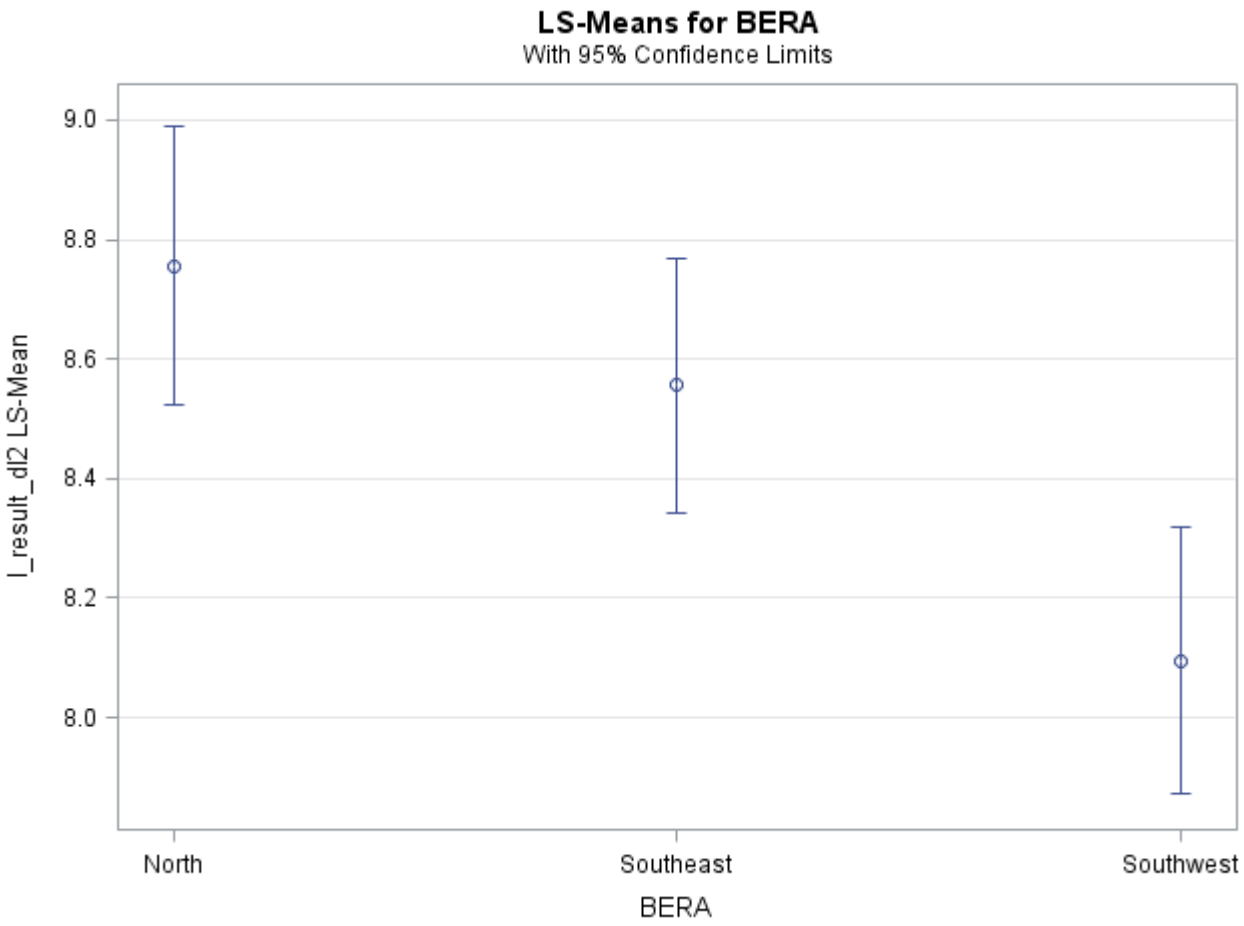
Pesticides Dieldrin
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.75580740	1
Southeast	8.55532186	2
Southwest	8.09510993	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4110	0.0006
2	0.4110		0.0128
3	0.0006	0.0128	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.0
8.8
8.6
8.4
8.2
8.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Heptachlor epoxide
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

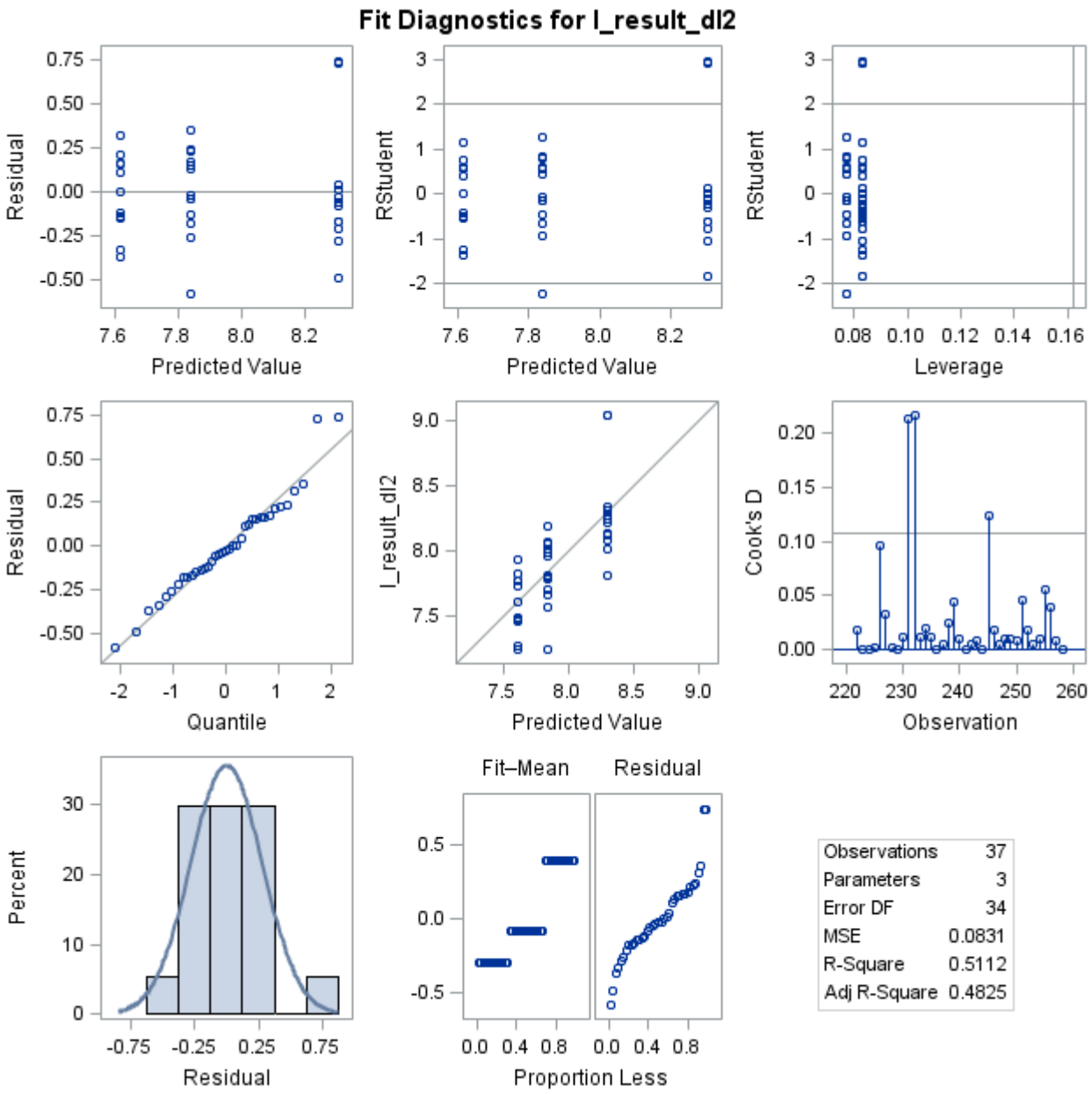
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.95527103	1.47763551	17.78	<.0001
Error	34	2.82560197	0.08310594		
Corrected Total	36	5.78087300			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.511215	3.641537	0.288281	7.916465

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.95527103	1.47763551	17.78	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.95527103	1.47763551	17.78	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0831
R-Square 0.5112
Adj R-Square 0.4825

Pesticides Heptachlor epoxide
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0463	0.0231	1.35	0.2722
Error	34	0.5817	0.0171		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	14.72	<.0001
Error	21.7591		

Pesticides Heptachlor epoxide
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	8.30280823	0.37192112
Southeast	**13**	7.83703433	0.25180915
Southwest	**12**	7.61617099	0.22220573

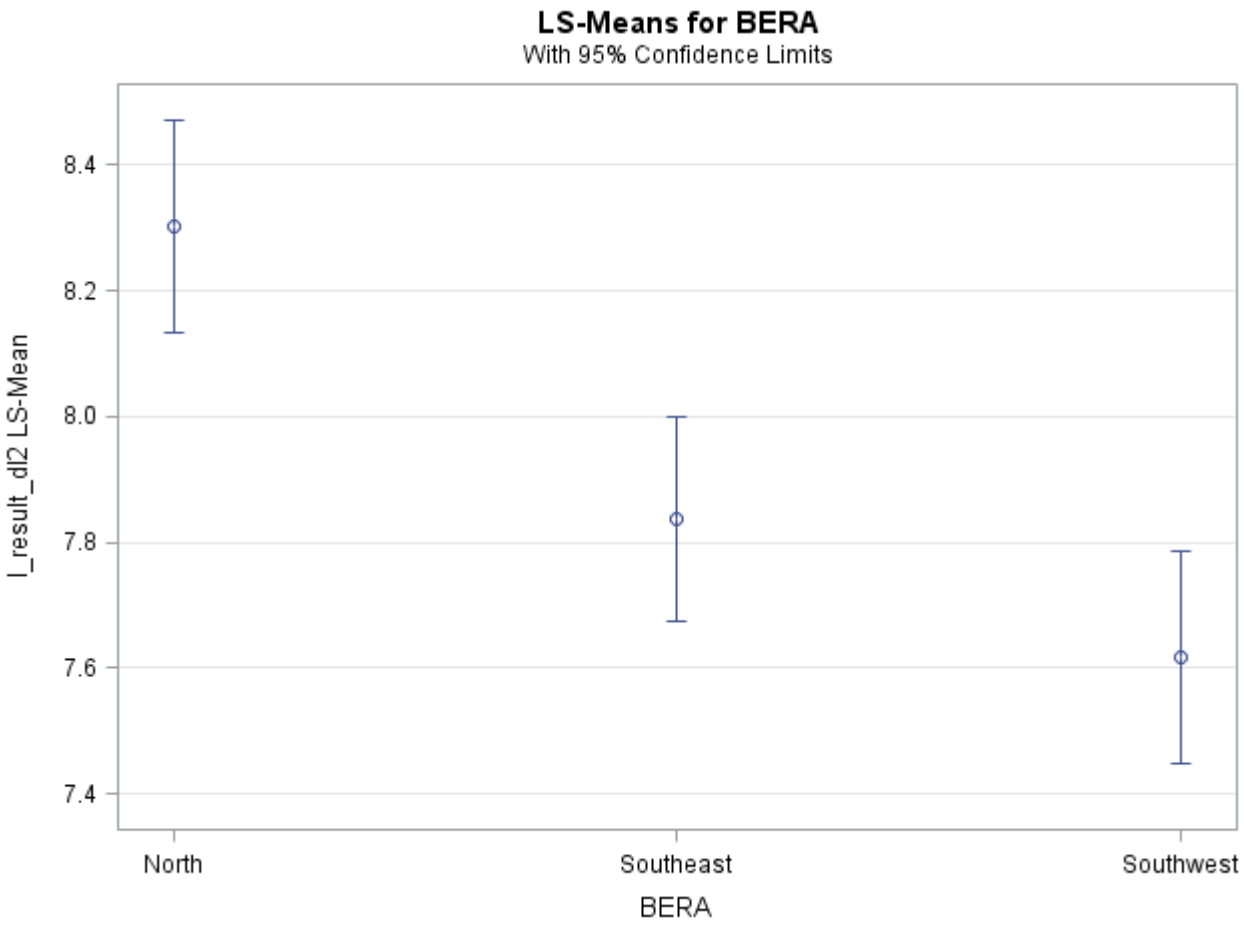
Pesticides Heptachlor epoxide
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.30280823	1
Southeast	7.83703433	2
Southwest	7.61617099	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0008	<.0001
2	0.0008		0.1502
3	<.0001	0.1502	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
8.4
8.2
8.0
7.8
7.6
7.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Hexachlorobenzene
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

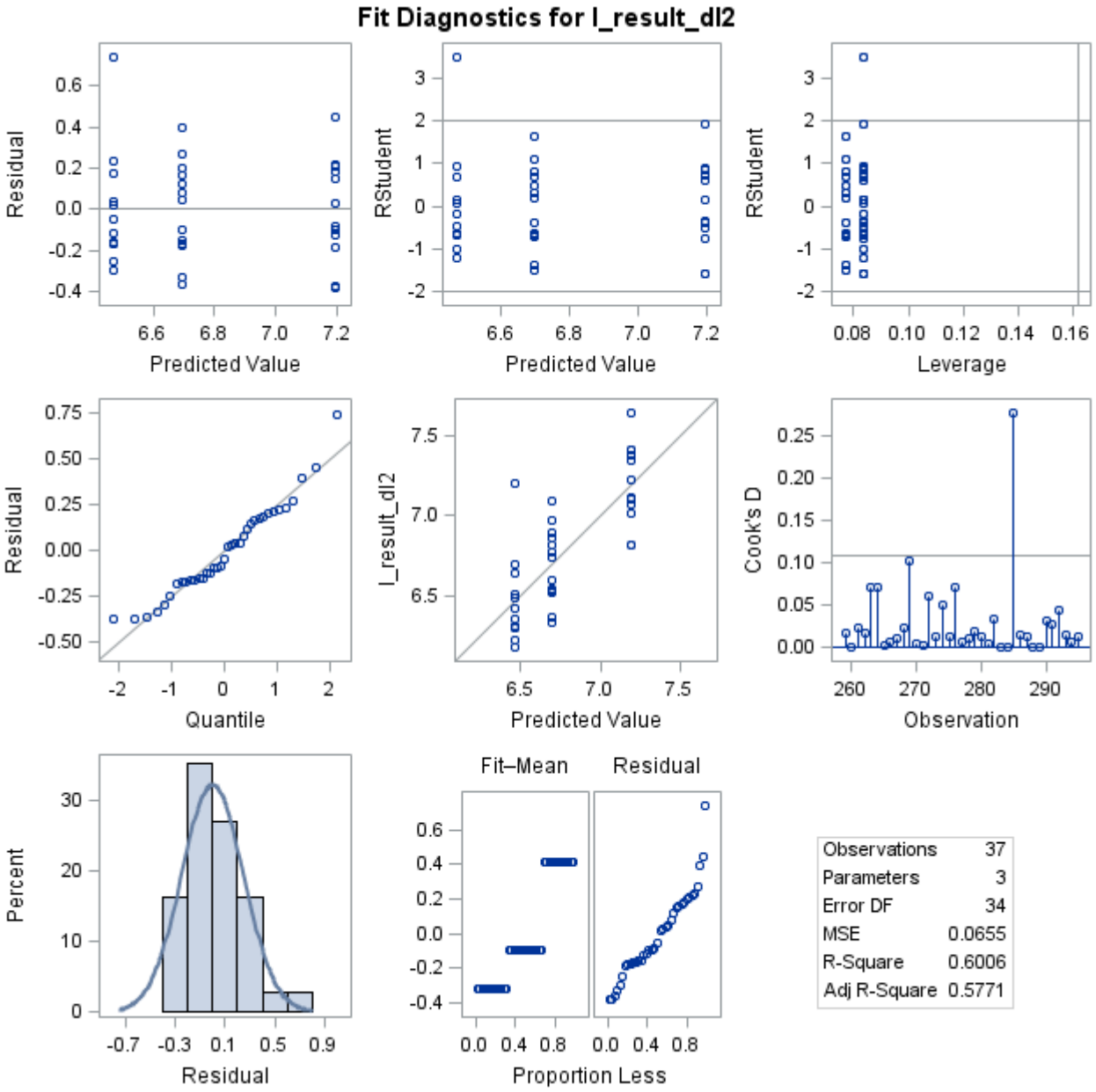
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.34773777	1.67386888	25.56	<.0001
Error	34	2.22645935	0.06548410		
Corrected Total	36	5.57419711			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.600578	3.772053	0.255899	6.784067

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.34773777	1.67386888	25.56	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.34773777	1.67386888	25.56	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0655
R-Square 0.6006
Adj R-Square 0.5771

Pesticides Hexachlorobenzene
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00345	0.00172	0.18	0.8387
Error	34	0.3312	0.00974		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	23.80	<.0001
Error	22.2764		

Pesticides Hexachlorobenzene
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	7.19686455	0.25176553
Southeast	**13**	6.69486202	0.23277285
Southwest	**12**	6.46790932	0.28268458

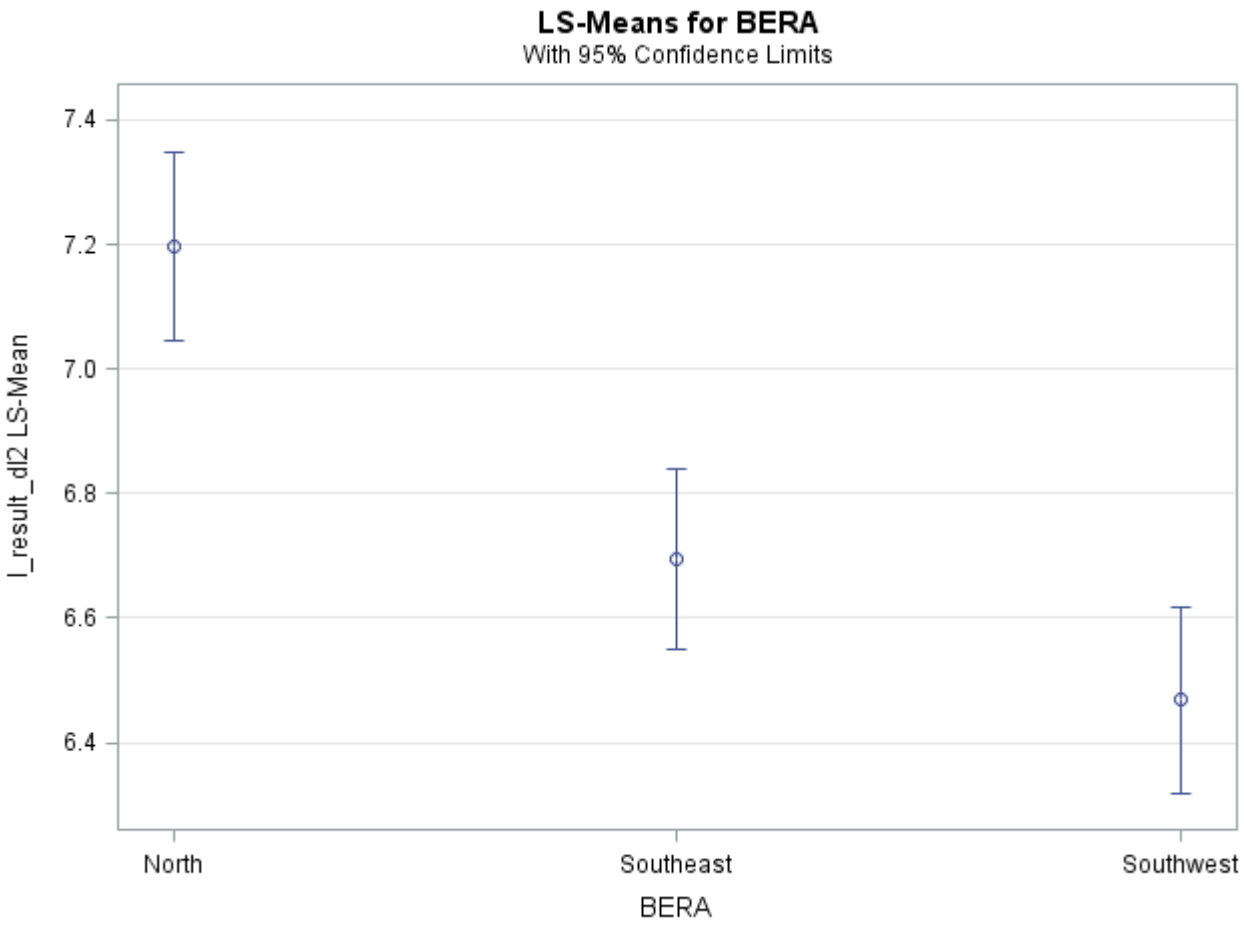
Pesticides Hexachlorobenzene
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.19686455	1
Southeast	6.69486202	2
Southwest	6.46790932	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		<.0001	<.0001
2	<.0001		0.0829
3	<.0001	0.0829	


LS-Means for BERA
With 95% Confidence Limits
7.4
7.2
7.0
6.8
6.6
6.4
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

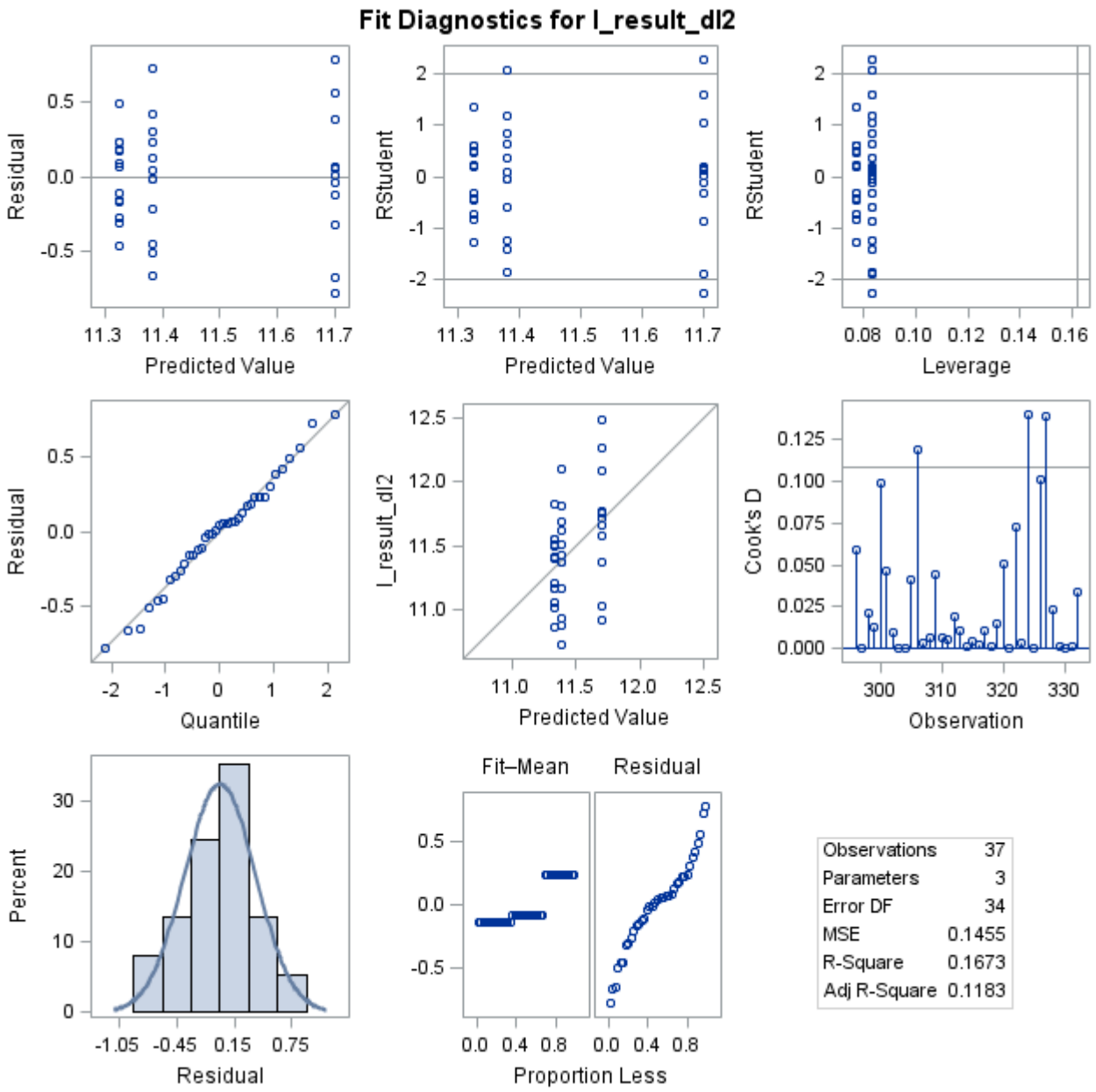
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.99384351	0.49692175	3.42	0.0445
Error	34	4.94564836	0.14546025		
Corrected Total	36	5.93949186			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.167328	3.326524	0.381393	11.46520

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.99384351	0.49692175	3.42	0.0445

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.99384351	0.49692175	3.42	0.0445


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.1455
R-Square 0.1673
Adj R-Square 0.1183

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0993	0.0497	1.58	0.2217
Error	34	1.0717	0.0315		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	3.01	0.0713
Error	20.7925		

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	11.3819153	0.40594016
Southeast	**13**	11.3258719	0.26825006
Southwest	**12**	11.6994092	0.45422158

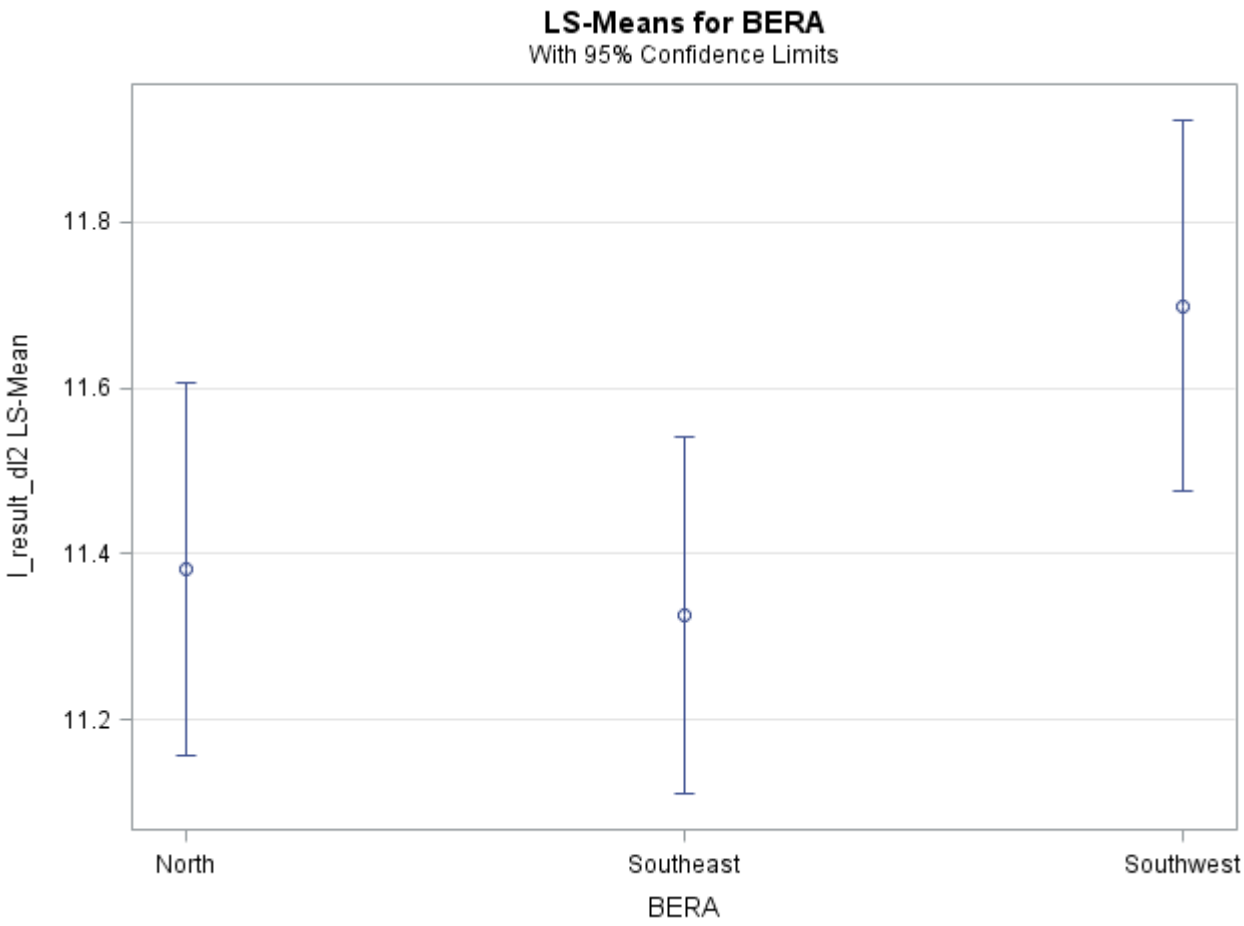
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.3819153	1
Southeast	11.3258719	2
Southwest	11.6994092	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9286	0.1183
2	0.9286		0.0504
3	0.1183	0.0504	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
11.8
11.6
11.4
11.2
North
Southeast
Southwest
BERA

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

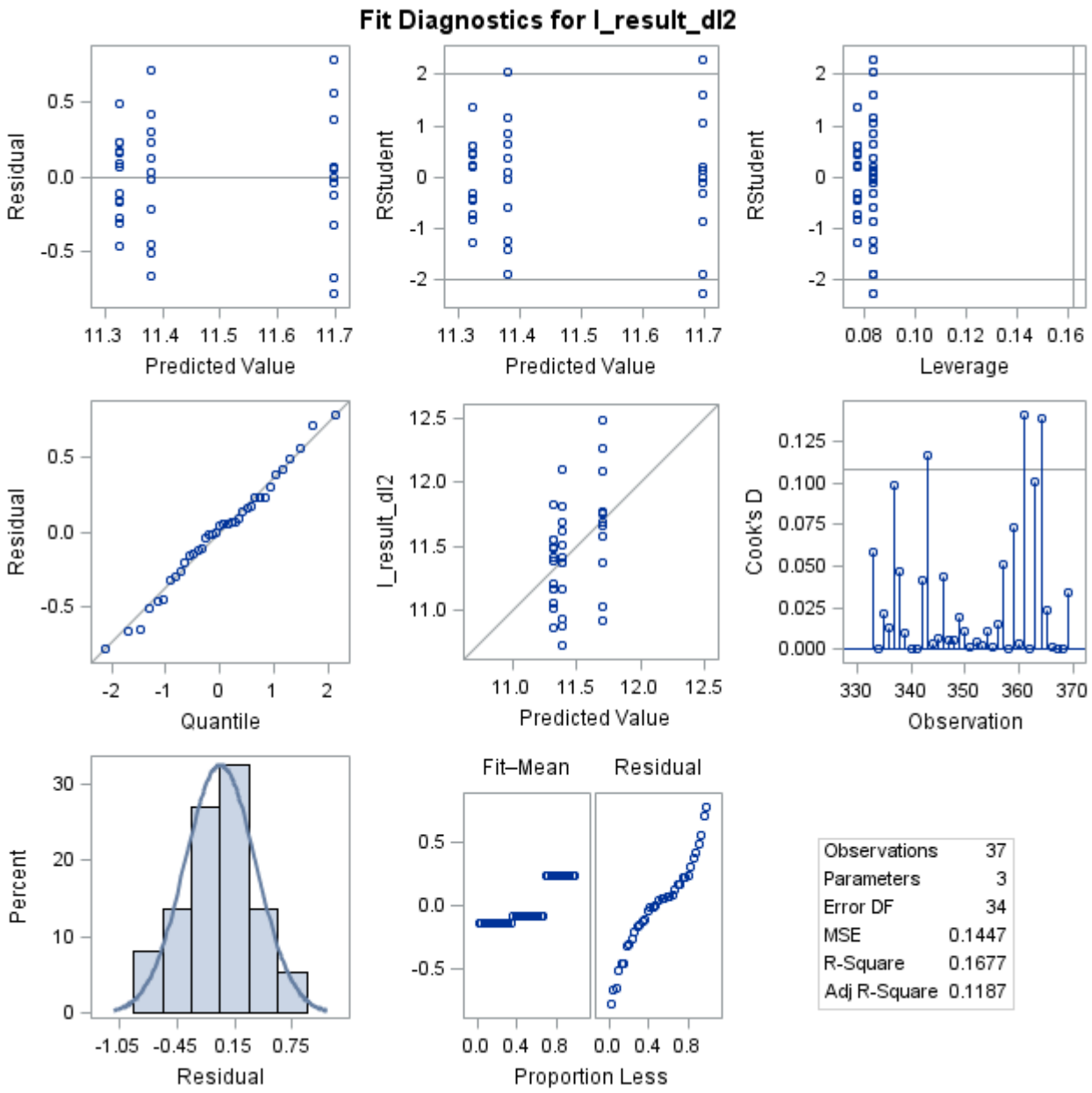
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.99118199	0.49559099	3.42	0.0442
Error	34	4.92052153	0.14472122		
Corrected Total	36	5.91170351			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.167664	3.318541	0.380422	11.46354

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.99118199	0.49559099	3.42	0.0442

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.99118199	0.49559099	3.42	0.0442


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.1447
R-Square 0.1677
Adj R-Square 0.1187

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0997	0.0499	1.60	0.2170
Error	34	1.0602	0.0312		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	3.01	0.0712
Error	20.7797		

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	11.3808066	0.40412680
Southeast	**13**	11.3240682	0.26702051
Southwest	**12**	11.6973781	0.45411442

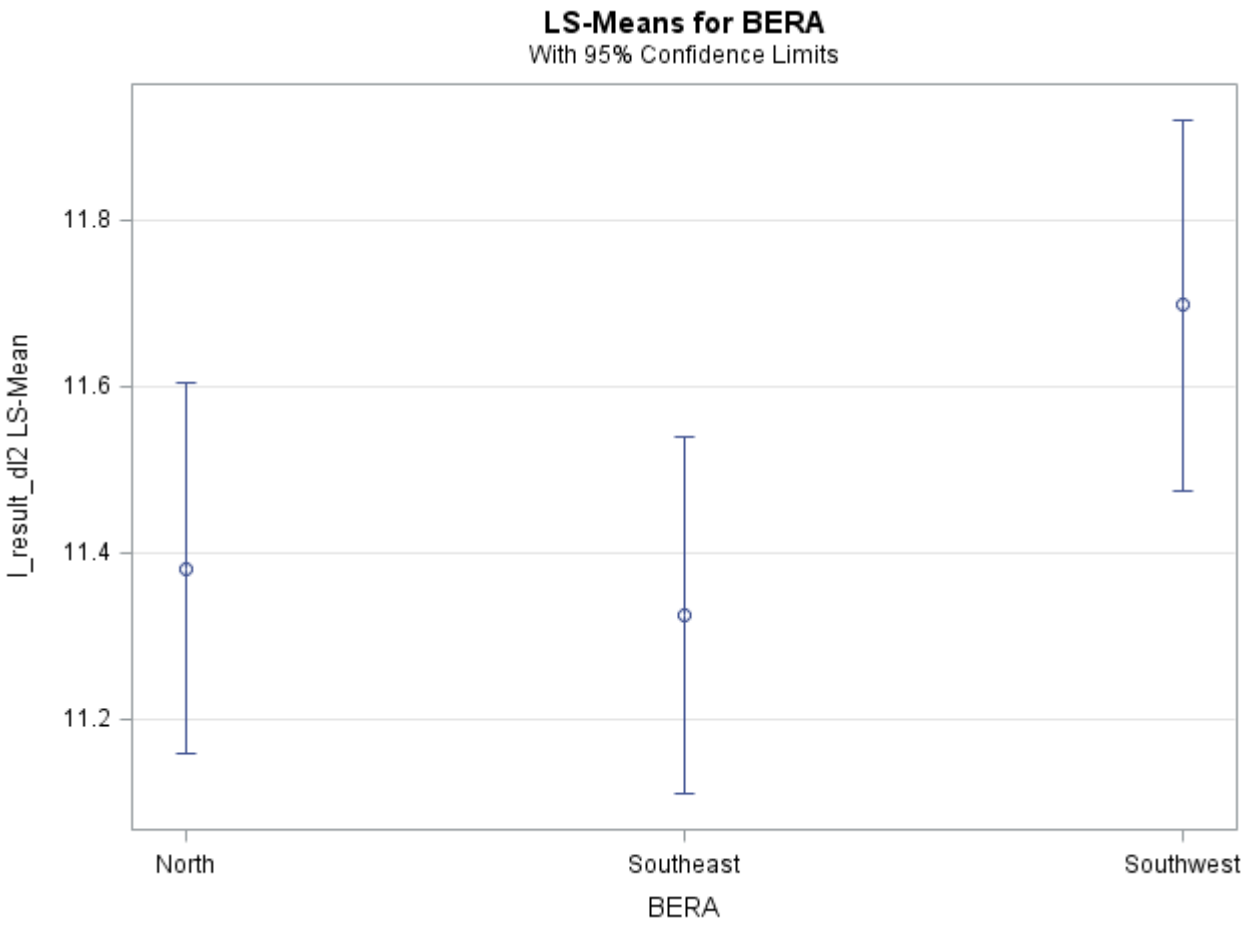
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.3808066	1
Southeast	11.3240682	2
Southwest	11.6973781	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9265	0.1184
2	0.9265		0.0499
3	0.1184	0.0499	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
11.8
11.6
11.4
11.2
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

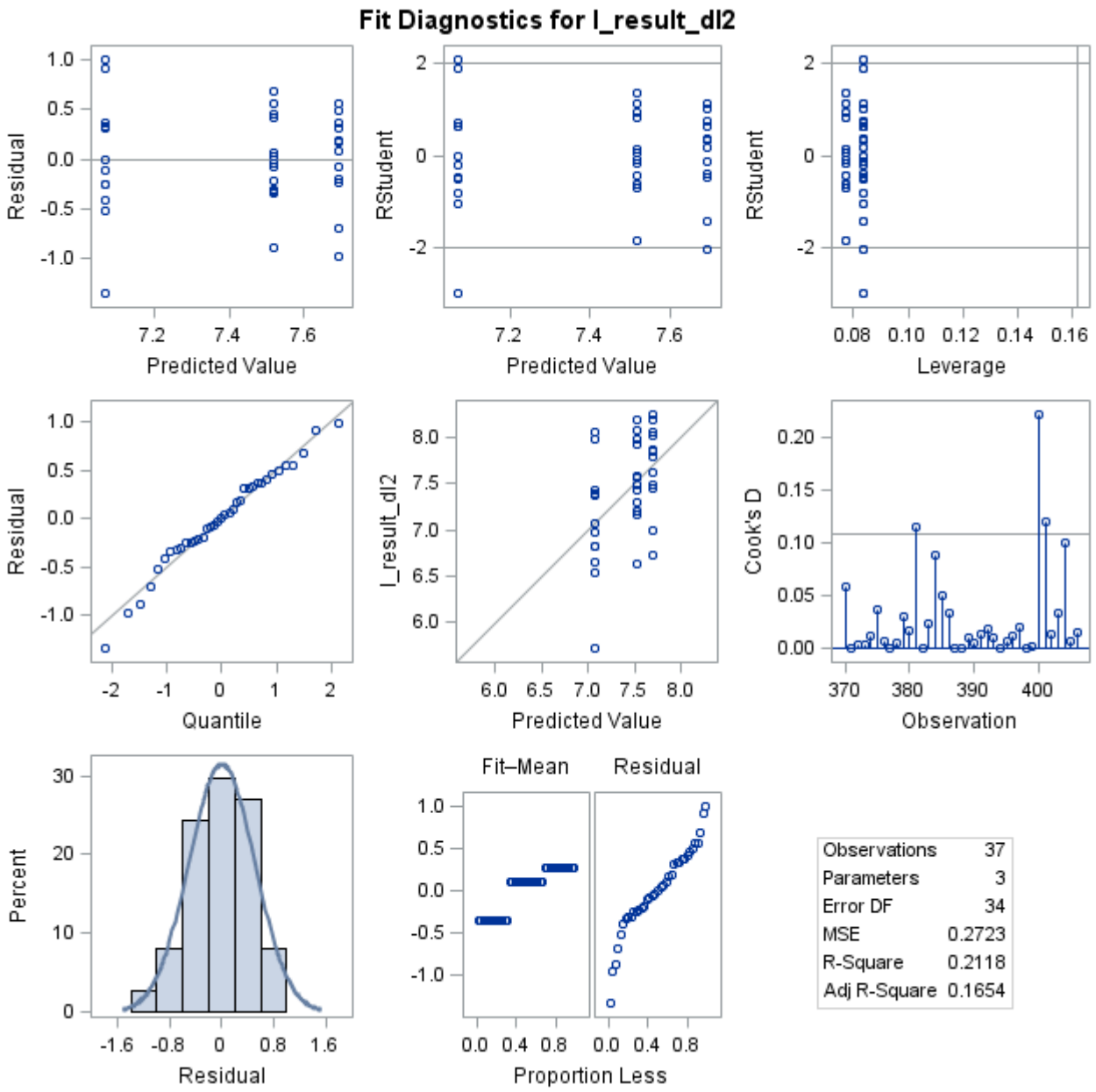
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.48779086	1.24389543	4.57	0.0175
Error	34	9.25817877	0.27229938		
Corrected Total	36	11.74596962			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.211800	7.023950	0.521823	7.429198

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.48779086	1.24389543	4.57	0.0175

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.48779086	1.24389543	4.57	0.0175


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.2723
R-Square 0.2118
Adj R-Square 0.1654

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2950	0.1475	1.03	0.3678
Error	34	4.8684	0.1432		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	3.61	0.0440
Error	21.8819		

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	7.69208671	0.46611880
Southeast	**13**	7.51873569	0.44023002
Southwest	**12**	7.06930864	0.64262353

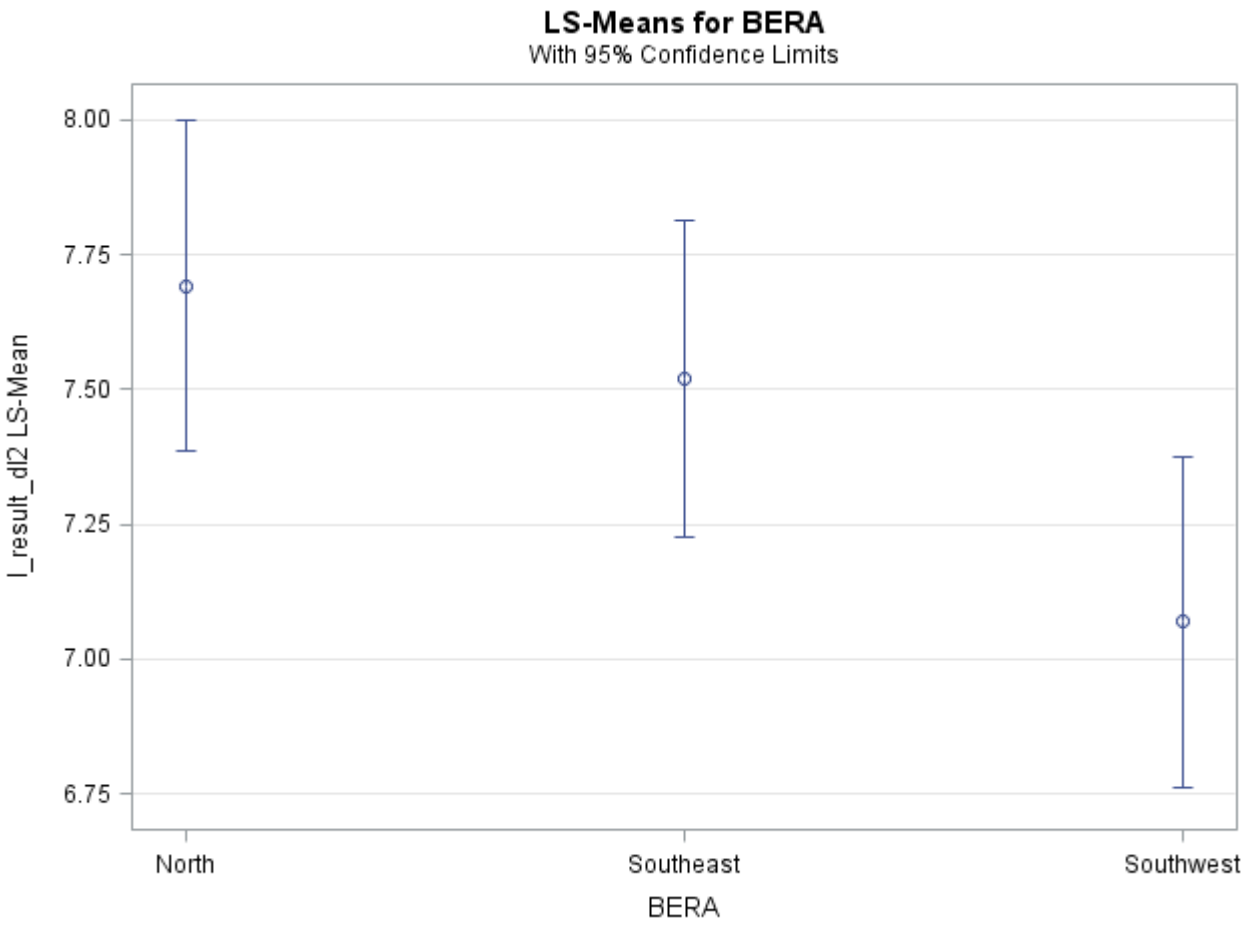
Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.69208671	1
Southeast	7.51873569	2
Southwest	7.06930864	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6873	0.0164
2	0.6873		0.0945
3	0.0164	0.0945	


LS-Means for BERA
With 95% Confidence Limits
8.00
7.75
7.50
7.25
7.00
6.75
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides alpha-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 35

Number of Observations Used 35

Pesticides alpha-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

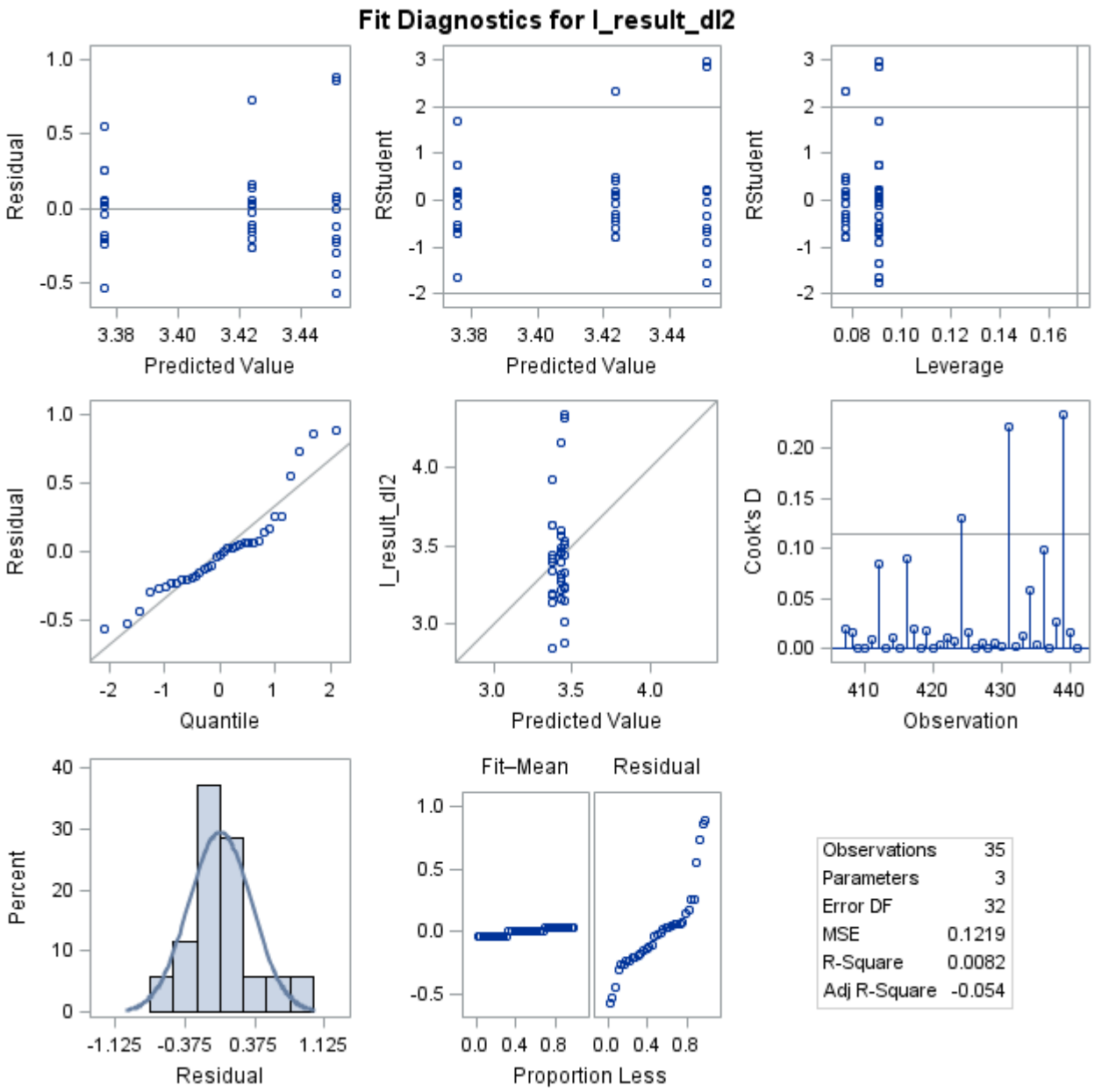
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.03225601	0.01612801	0.13	0.8766
Error	32	3.90232070	0.12194752		
Corrected Total	34	3.93457671			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.008198	10.21908	0.349210	3.417235

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.03225601	0.01612801	0.13	0.8766

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.03225601	0.01612801	0.13	0.8766


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 35
Parameters 3
Error DF 32
MSE 0.1219
R-Square 0.0082
Adj R-Square -0.054

Pesticides alpha-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1378	0.0689	1.83	0.1768
Error	32	1.2052	0.0377		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.13	0.8771
Error	19.4995		

Pesticides alpha-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	11	3.37564951	0.29006052
Southeast	13	3.42368012	0.26123672
Southwest	11	3.45120439	0.47350124

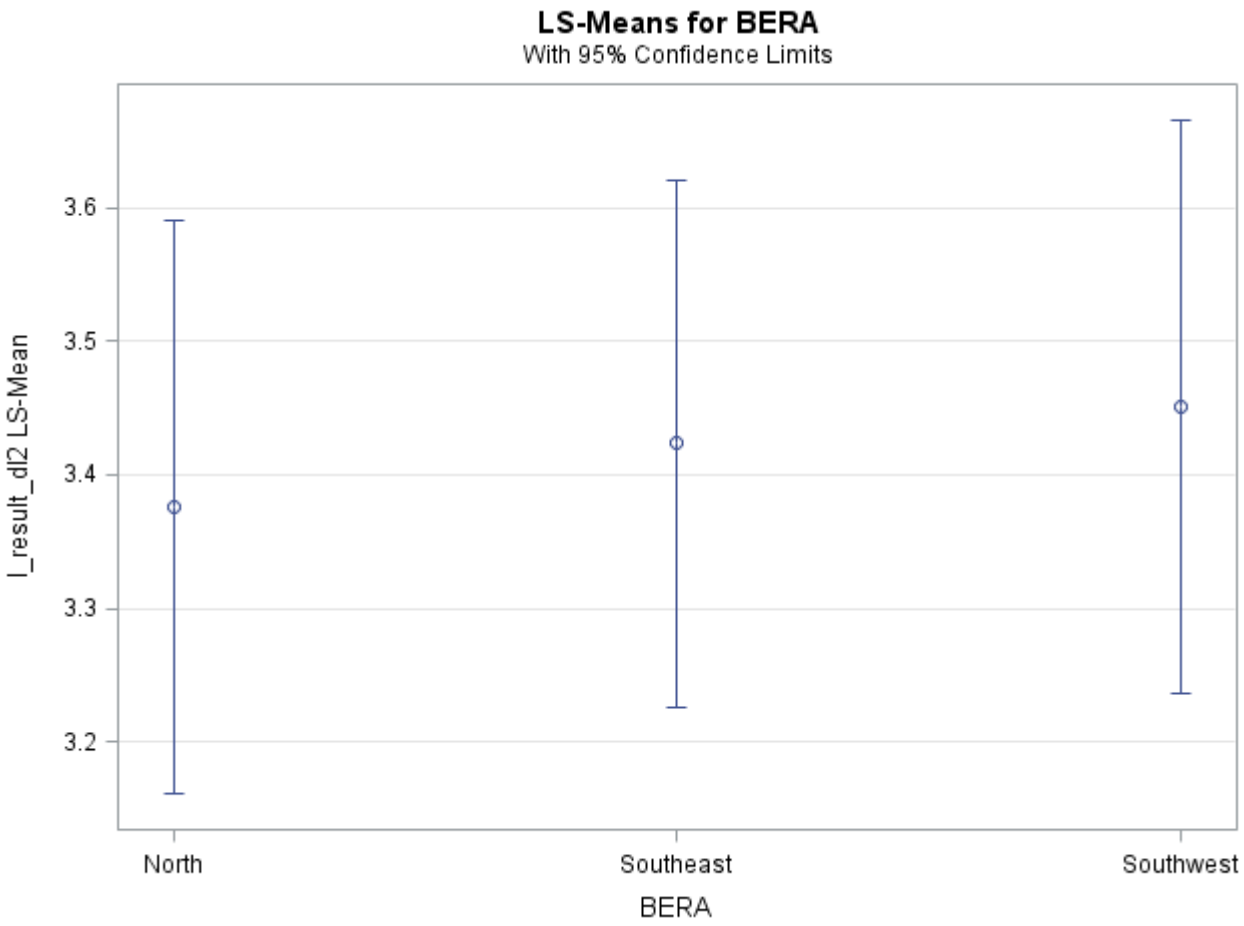
Pesticides alpha-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.37564951	1
Southeast	3.42368012	2
Southwest	3.45120439	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9399	0.8683
2	0.9399		0.9798
3	0.8683	0.9798	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.6
3.5
3.4
3.3
3.2
North
Southeast
Southwest
BERA

Pesticides beta-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides beta-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

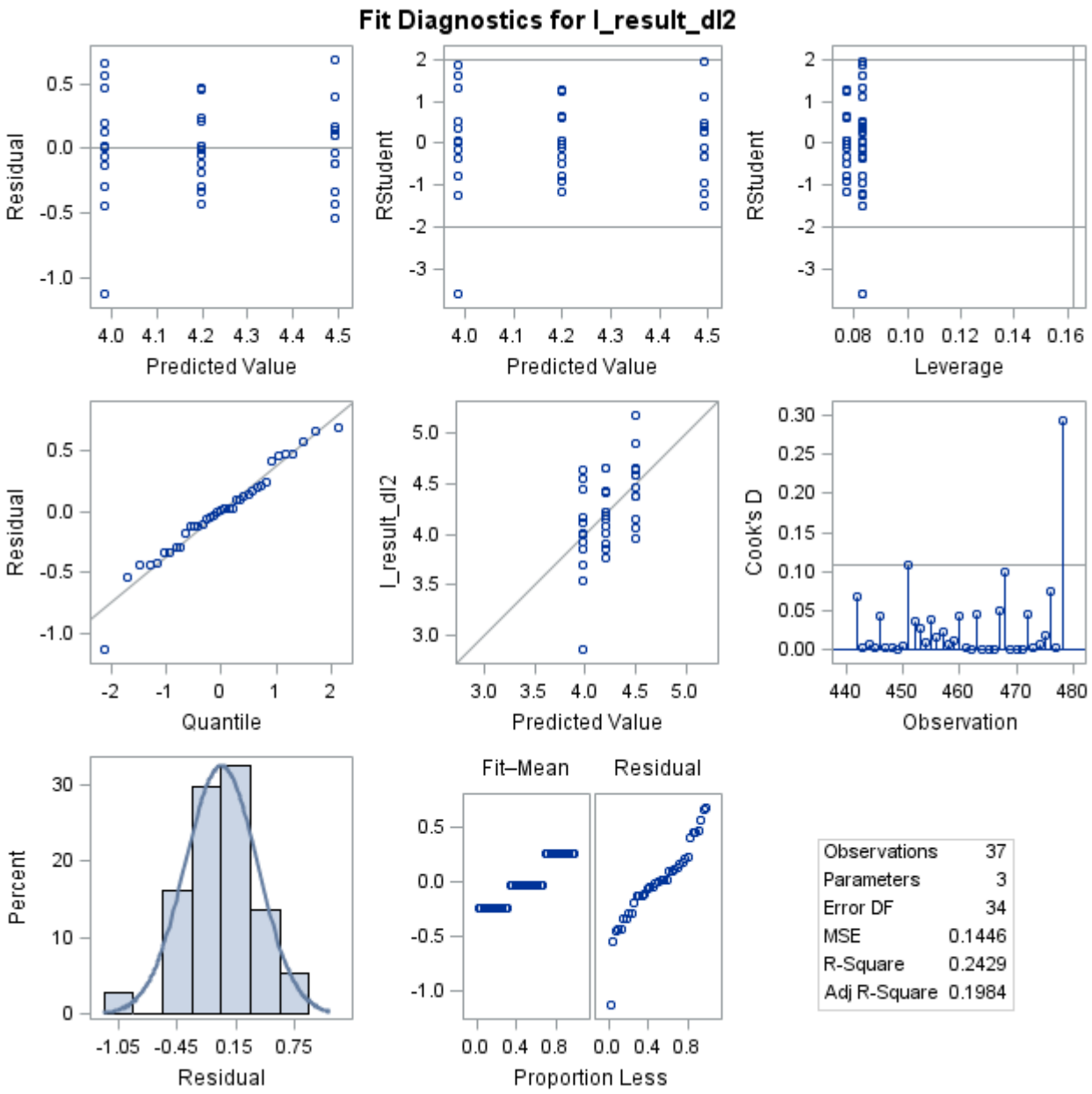
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.57712765	0.78856383	5.45	0.0088
Error	34	4.91572254	0.14458007		
Corrected Total	36	6.49285019			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.242902	9.000760	0.380237	4.224497

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.57712765	0.78856383	5.45	0.0088

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.57712765	0.78856383	5.45	0.0088


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.1446
R-Square 0.2429
Adj R-Square 0.1984

Pesticides beta-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1389	0.0695	1.32	0.2797
Error	34	1.7855	0.0525		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	4.77	0.0194
Error	21.2558		

Pesticides beta-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	12	4.49348688	0.34881660
Southeast	13	4.19923328	0.28233523
Southwest	12	3.98287684	0.48810963

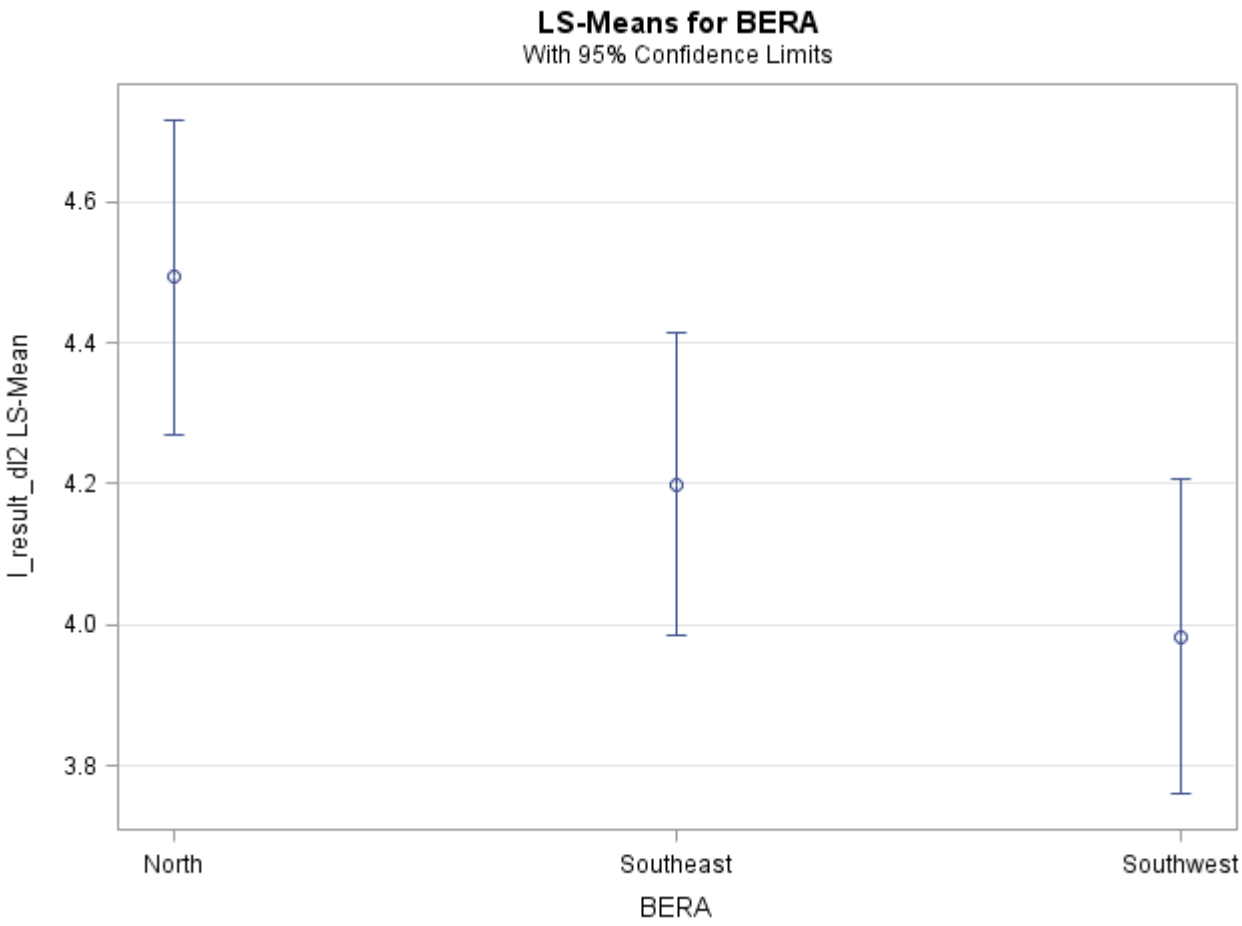
Pesticides beta-BHC
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.49348688	1
Southeast	4.19923328	2
Southwest	3.98287684	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1449	0.0065
2	0.1449		0.3414
3	0.0065	0.3414	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.6
4.4
4.2
4.0
3.8
North
Southeast
Southwest
BERA

Pesticides cis-Nonachlor
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides cis-Nonachlor
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

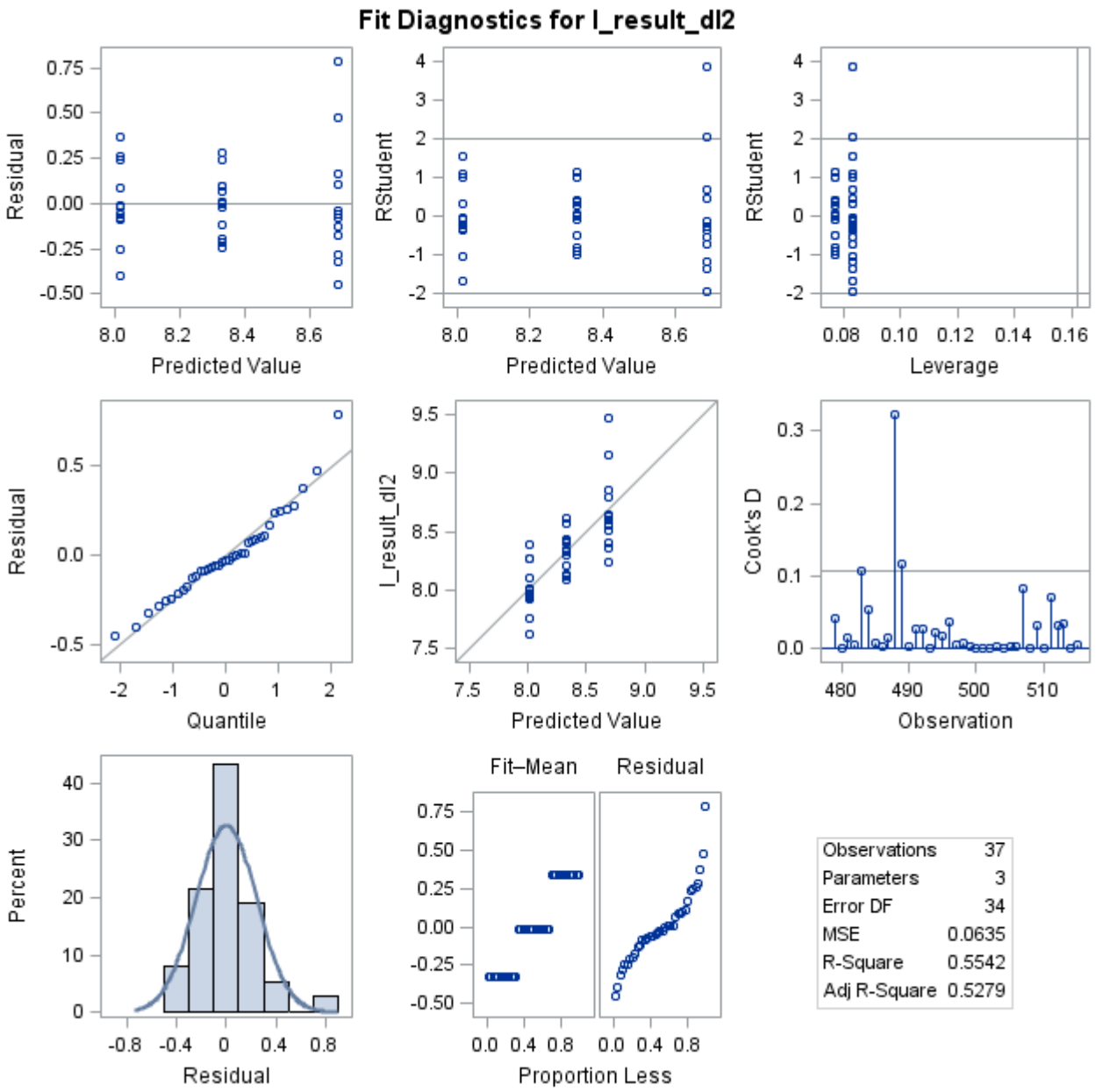
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.68482507	1.34241253	21.13	<.0001
Error	34	2.15999527	0.06352927		
Corrected Total	36	4.84482034			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.554164	3.020604	0.252050	8.344361

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.68482507	1.34241253	21.13	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.68482507	1.34241253	21.13	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0635
R-Square 0.5542
Adj R-Square 0.5279

Pesticides cis-Nonachlor
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0512	0.0256	2.23	0.1232
Error	34	0.3907	0.0115		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	17.13	<.0001
Error	20.5407		

Pesticides cis-Nonachlor
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	8.68572641	0.34790038
Southeast	**13**	8.33122658	0.16215422
Southwest	**12**	8.01722465	0.21597264

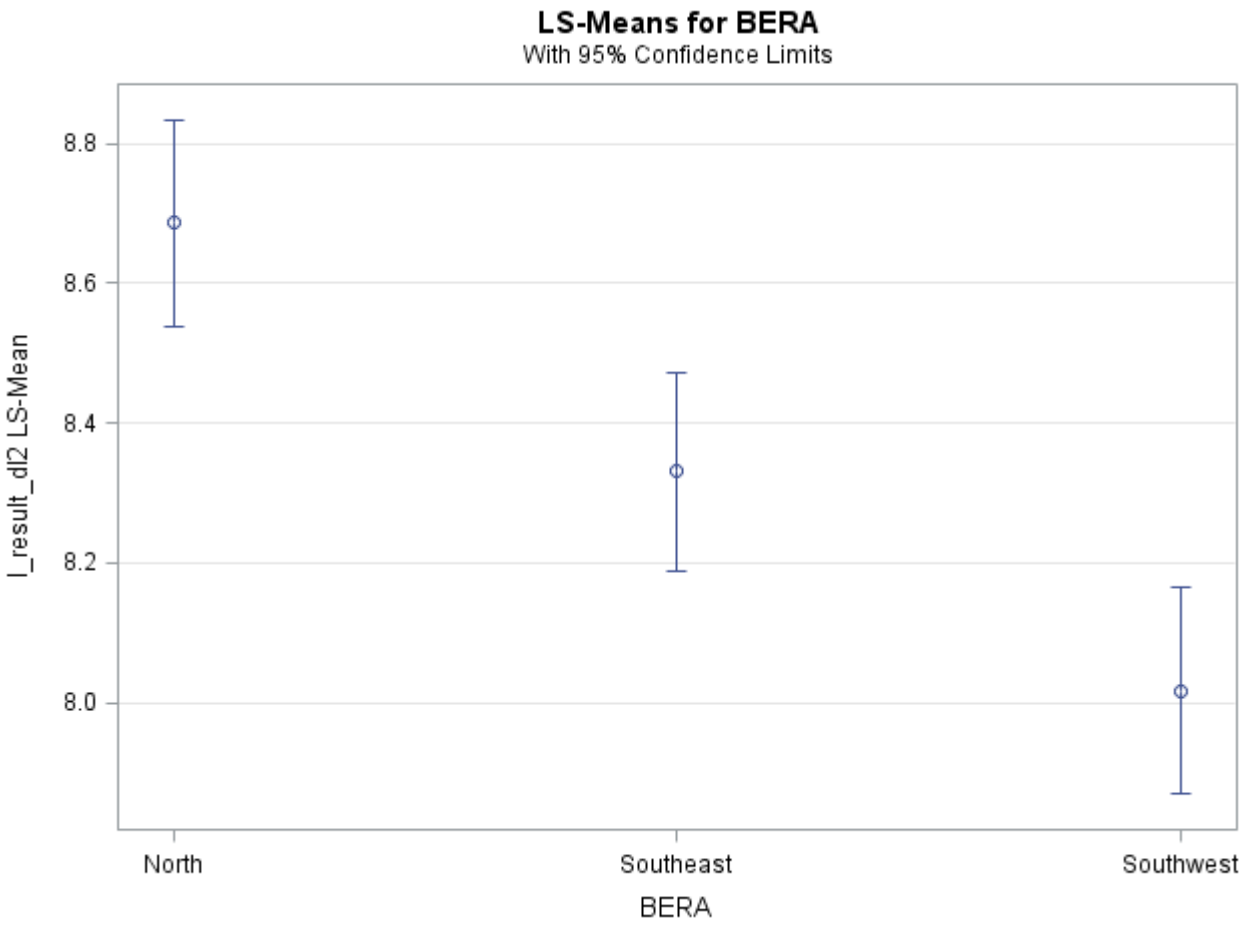
Pesticides cis-Nonachlor
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.68572641	1
Southeast	8.33122658	2
Southwest	8.01722465	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0036	<.0001
2	0.0036		0.0102
3	<.0001	0.0102	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
8.8
8.6
8.4
8.2
8.0
North
Southeast
Southwest
BERA

PAHs Total Alkylated PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PAHs Total Alkylated PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

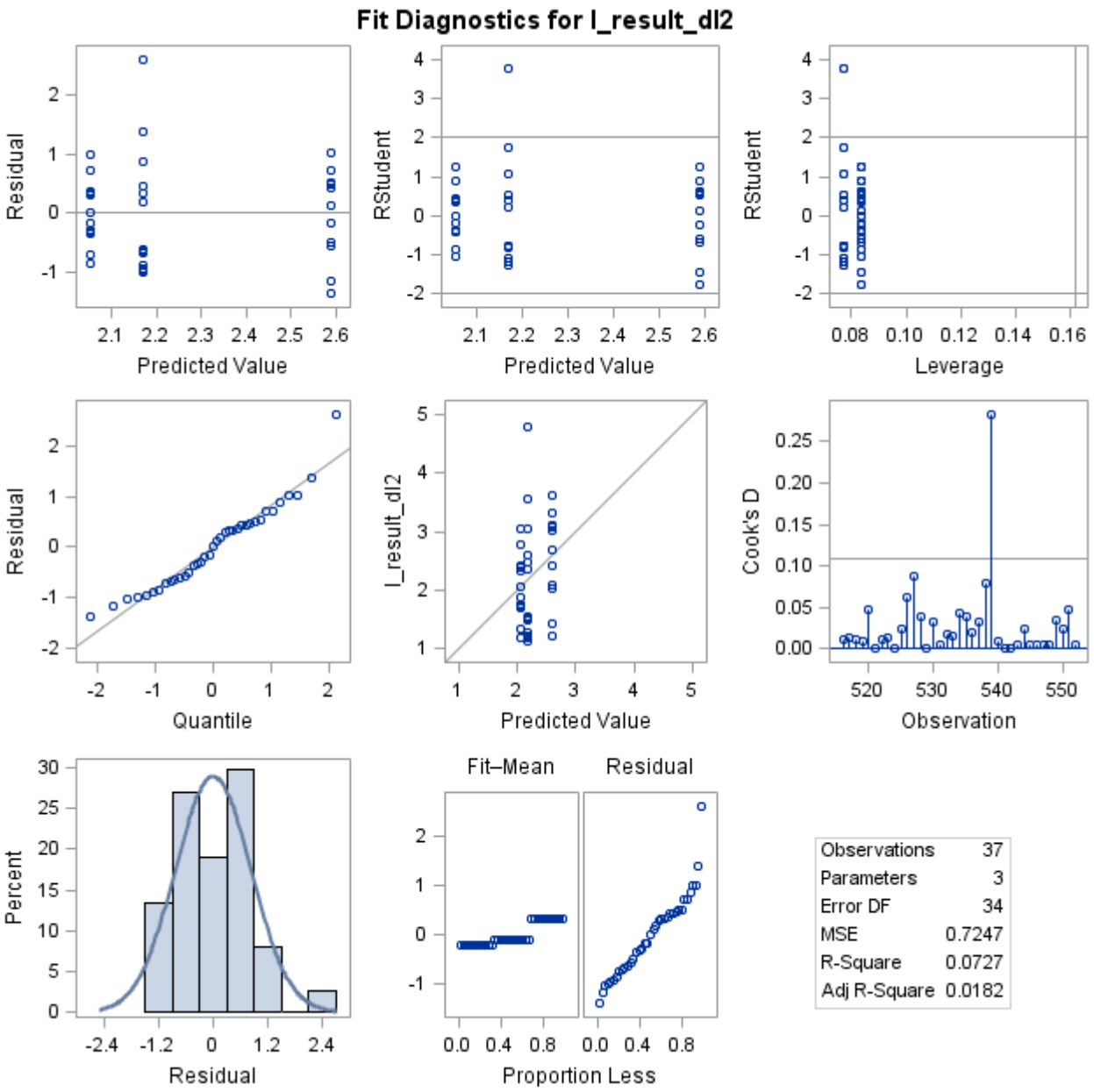
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.93194530	0.96597265	1.33	0.2771
Error	34	24.64073060	0.72472737		
Corrected Total	36	26.57267589			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.072704	37.54458	0.851309	2.267462

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.93194530	0.96597265	1.33	0.2771

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.93194530	0.96597265	1.33	0.2771


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.7247
R-Square 0.0727
Adj R-Square 0.0182

PAHs Total Alkylated PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	4.8710	2.4355	1.93	0.1604
Error	34	42.8575	1.2605		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.91	0.1720
Error	21.6486		

PAHs Total Alkylated PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	2.58989975	0.76081833
Southeast	**13**	2.16888313	1.11160663
Southwest	**12**	2.05181940	0.55965974

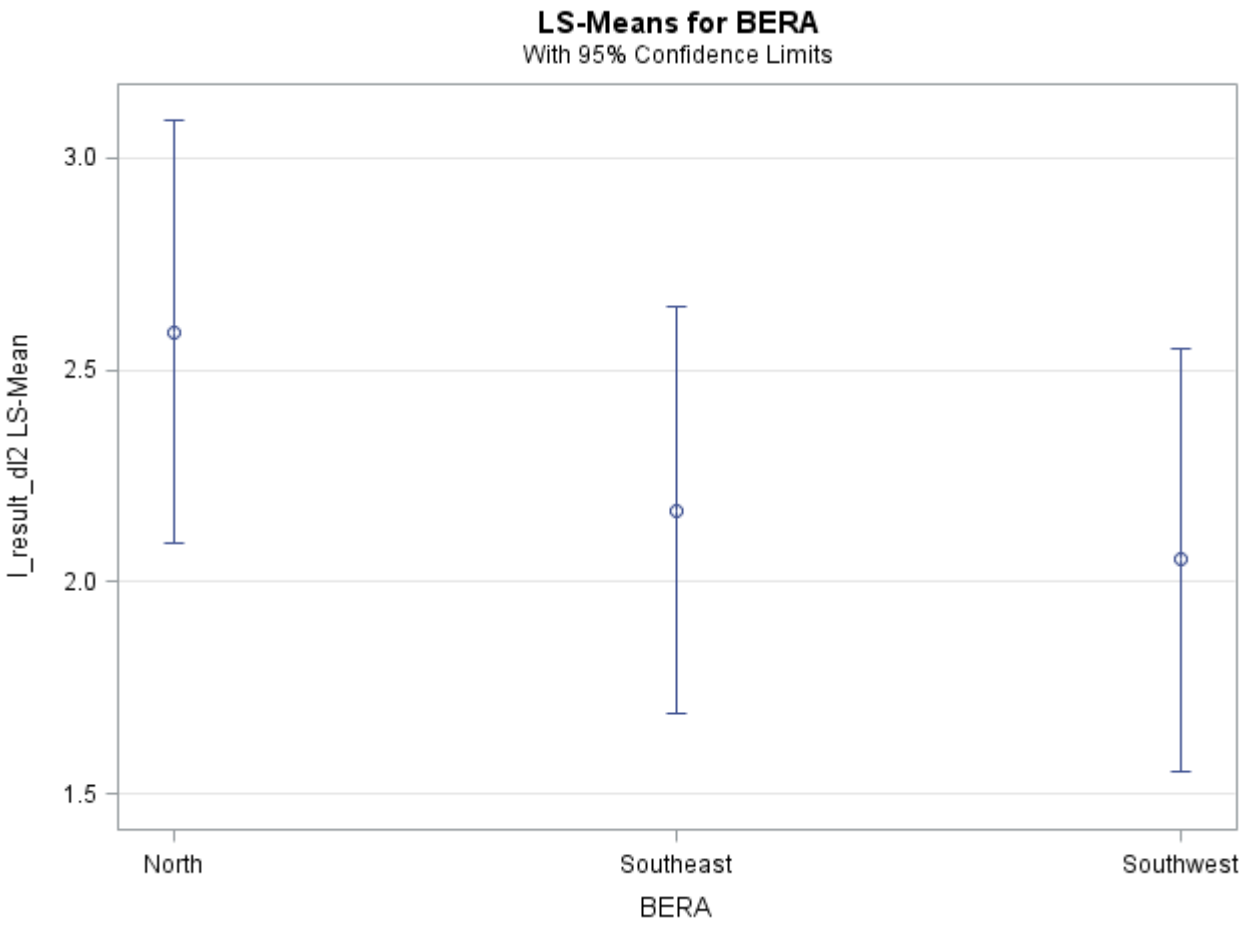
PAHs Total Alkylated PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.58989975	1
Southeast	2.16888313	2
Southwest	2.05181940	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4410	0.2817
2	0.4410		0.9372
3	0.2817	0.9372	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.0
2.5
2.0
1.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	37
Number of Observations Used	37

PAHs Total HMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

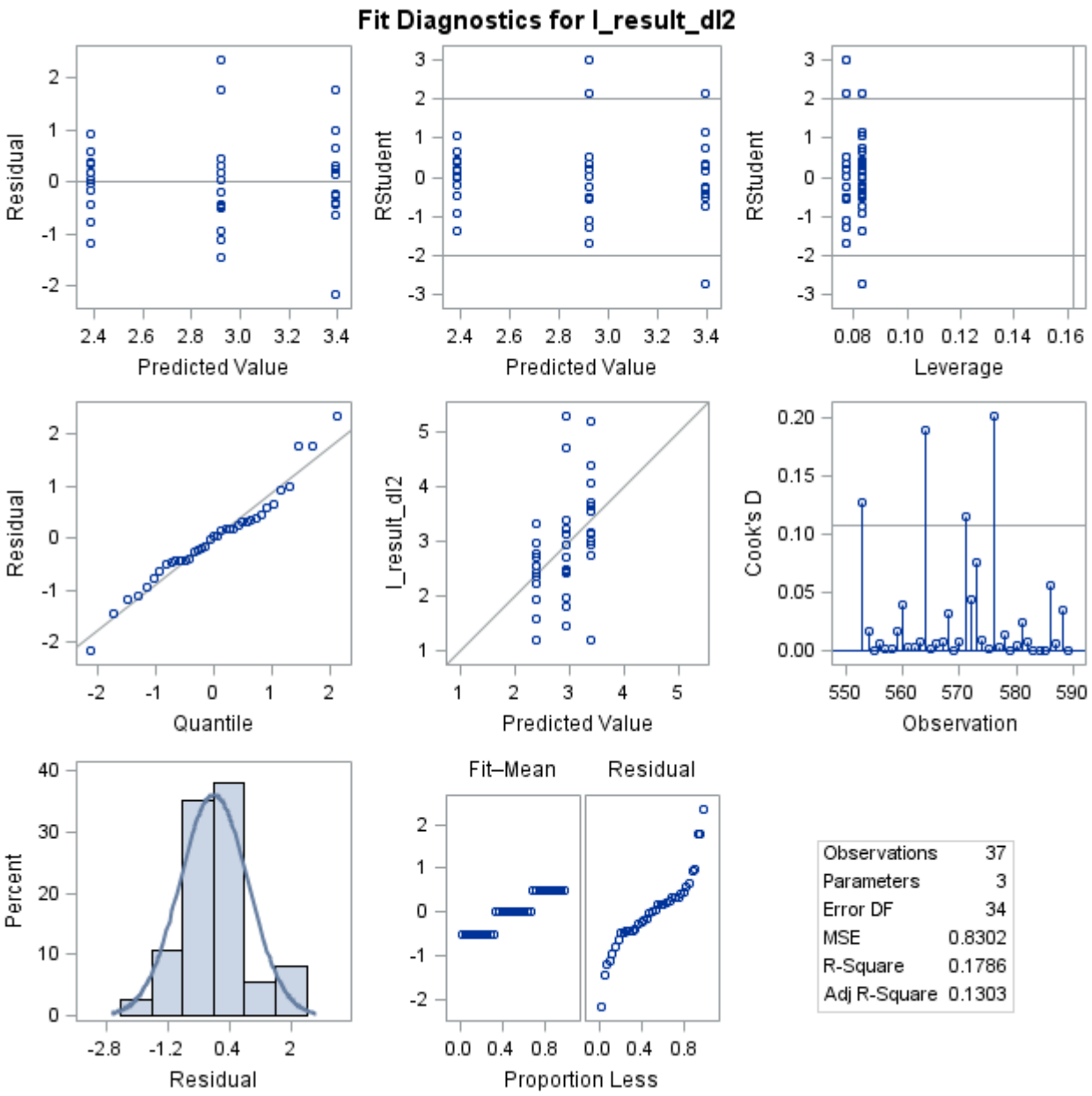
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	6.13717695	3.06858847	3.70	0.0353
Error	34	28.22756221	0.83022242		
Corrected Total	36	34.36473916			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.178589	31.43437	0.911165	2.898628

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	6.13717695	3.06858847	3.70	0.0353

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	6.13717695	3.06858847	3.70	0.0353


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.8302
R-Square 0.1786
Adj R-Square 0.1303

PAHs Total HMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	3.8430	1.9215	1.09	0.3482
Error	34	60.0173	1.7652		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	4.92	0.0176
Error	21.2228		

PAHs Total HMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	3.39156174	0.97476248
Southeast	**13**	2.92137538	1.08036892
Southwest	**12**	2.38104981	0.58538389

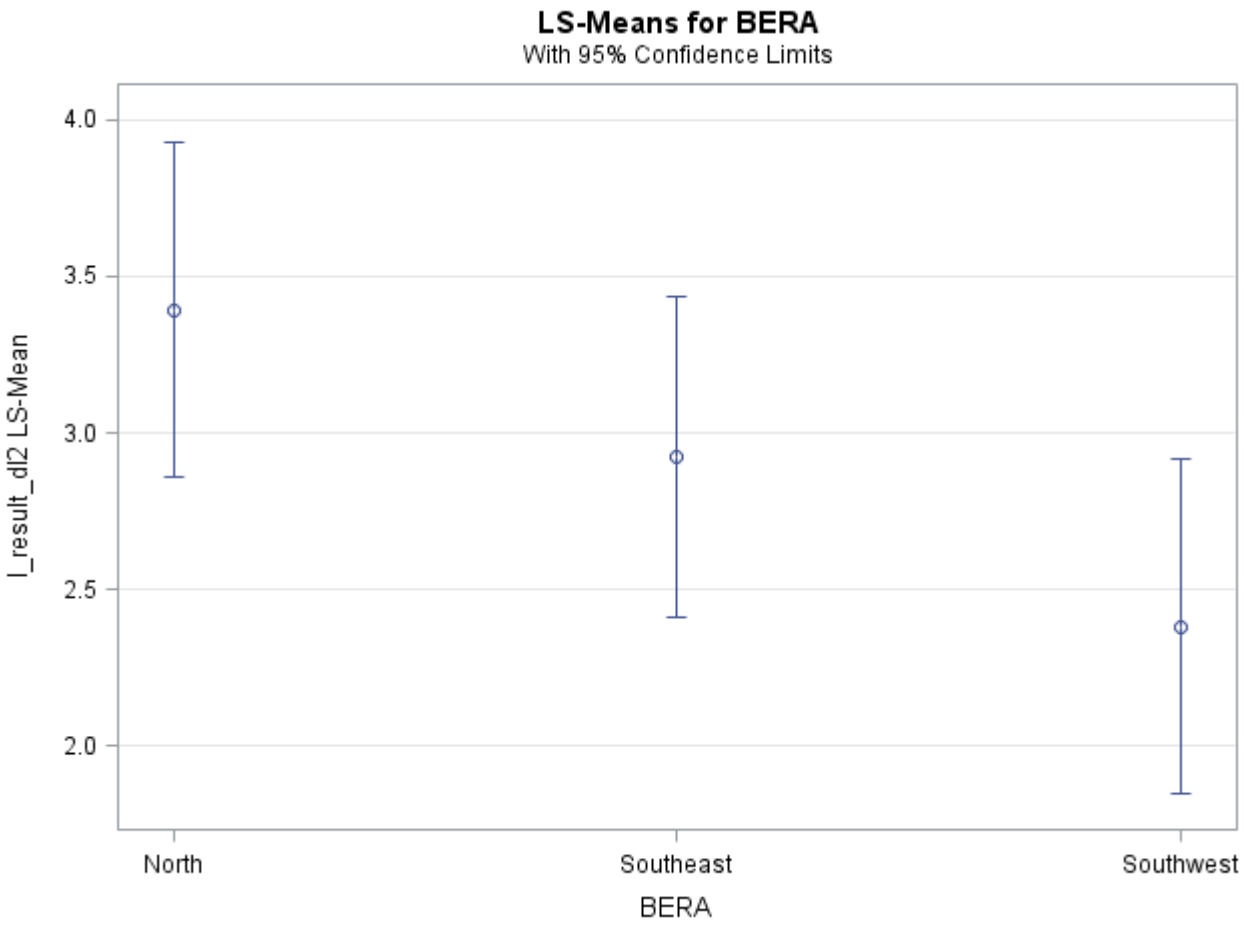
PAHs Total HMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.39156174	1
Southeast	2.92137538	2
Southwest	2.38104981	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4110	0.0271
2	0.4110		0.3123
3	0.0271	0.3123	


LS-Means for BERA
With 95% Confidence Limits
4.0
3.5
3.0
2.5
2.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

PAHs Total LMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PAHs Total LMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

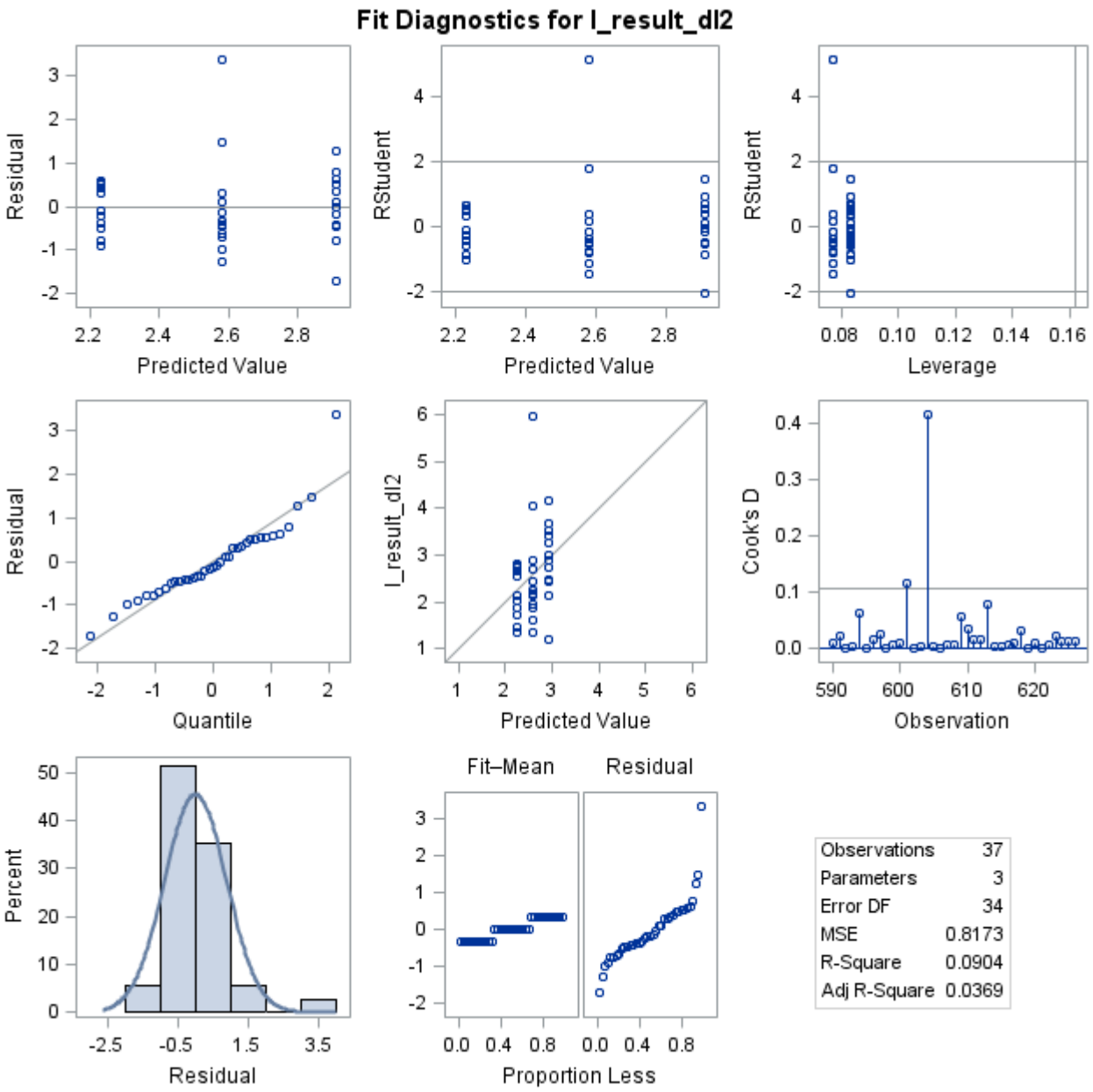
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.76056637	1.38028319	1.69	0.1999
Error	34	27.78735532	0.81727516		
Corrected Total	36	30.54792170			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.090368	35.11169	0.904033	2.574734

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.76056637	1.38028319	1.69	0.1999

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.76056637	1.38028319	1.69	0.1999


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.8173
R-Square 0.0904
Adj R-Square 0.0369

PAHs Total LMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	7.9406	3.9703	1.11	0.3405
Error	34	121.4	3.5698		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.97	0.0728
Error	21.2660		

PAHs Total LMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	2.91077328	0.78816226
Southeast	**13**	2.58040695	1.21349277
Southwest	**12**	2.23254994	0.54634169

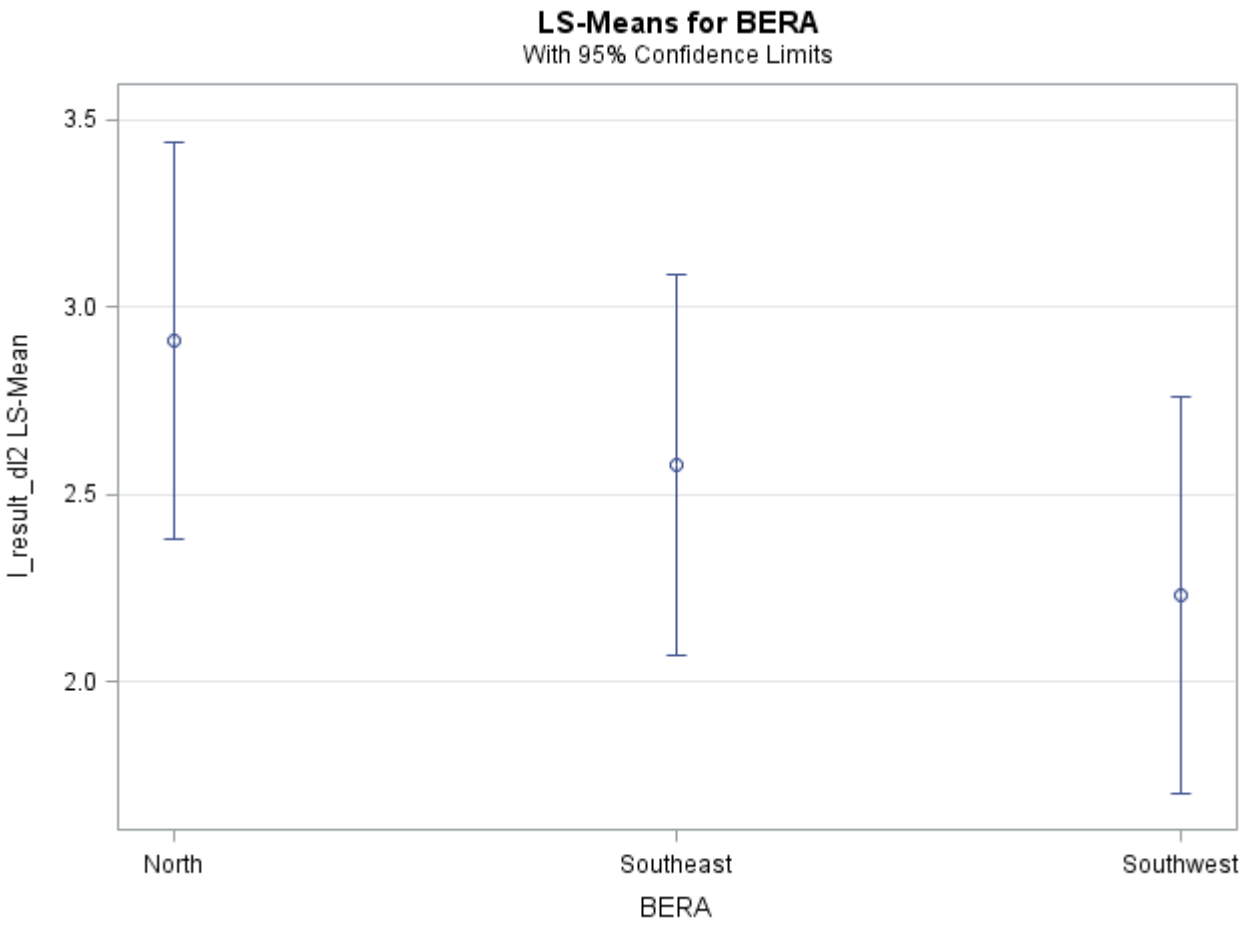
PAHs Total LMW PAHs
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.91077328	1
Southeast	2.58040695	2
Southwest	2.23254994	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6360	0.1728
2	0.6360		0.6060
3	0.1728	0.6060	


LS-Means for BERA
With 95% Confidence Limits
3.5
3.0
2.5
2.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

PAHs Total PAH
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PAHs Total PAH
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

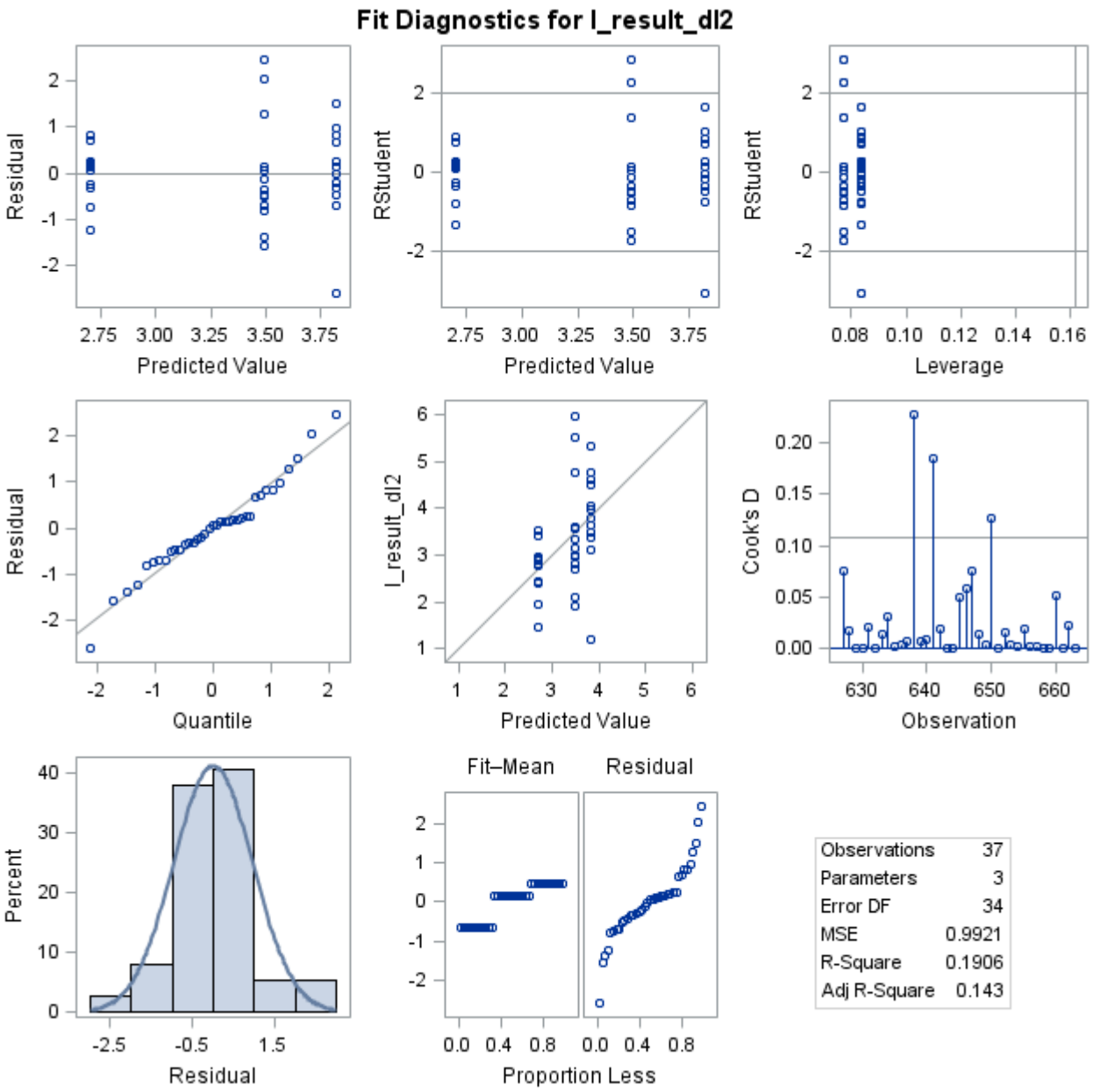
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	7.94324241	3.97162120	4.00	0.0275
Error	34	33.73218031	0.99212295		
Corrected Total	36	41.67542272			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.190598	29.81680	0.996054	3.340579

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	7.94324241	3.97162120	4.00	0.0275

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	7.94324241	3.97162120	4.00	0.0275


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.9921
R-Square 0.1906
Adj R-Square 0.143

PAHs Total PAH
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	7.5002	3.7501	1.49	0.2408
Error	34	85.8511	2.5250		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	6.09	0.0084
Error	20.6018		

PAHs Total PAH
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	3.81855967	1.04553028
Southeast	**13**	3.48992527	1.22687626
Southwest	**12**	2.70080689	0.57564246

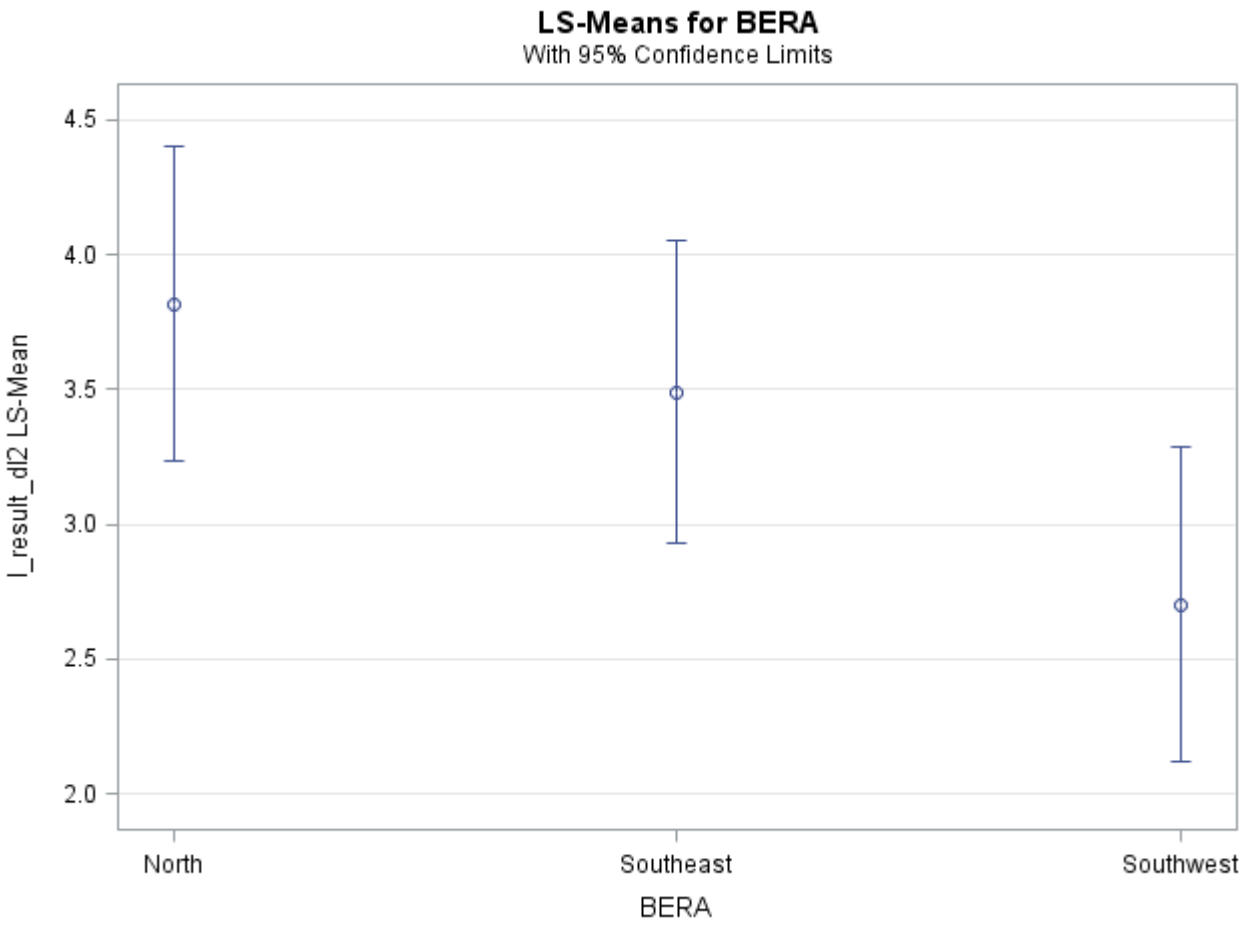
PAHs Total PAH
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.81855967	1
Southeast	3.48992527	2
Southwest	2.70080689	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6908	0.0251
2	0.6908		0.1328
3	0.0251	0.1328	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.5
4.0
3.5
3.0
2.5
2.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Lipids Lipids
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

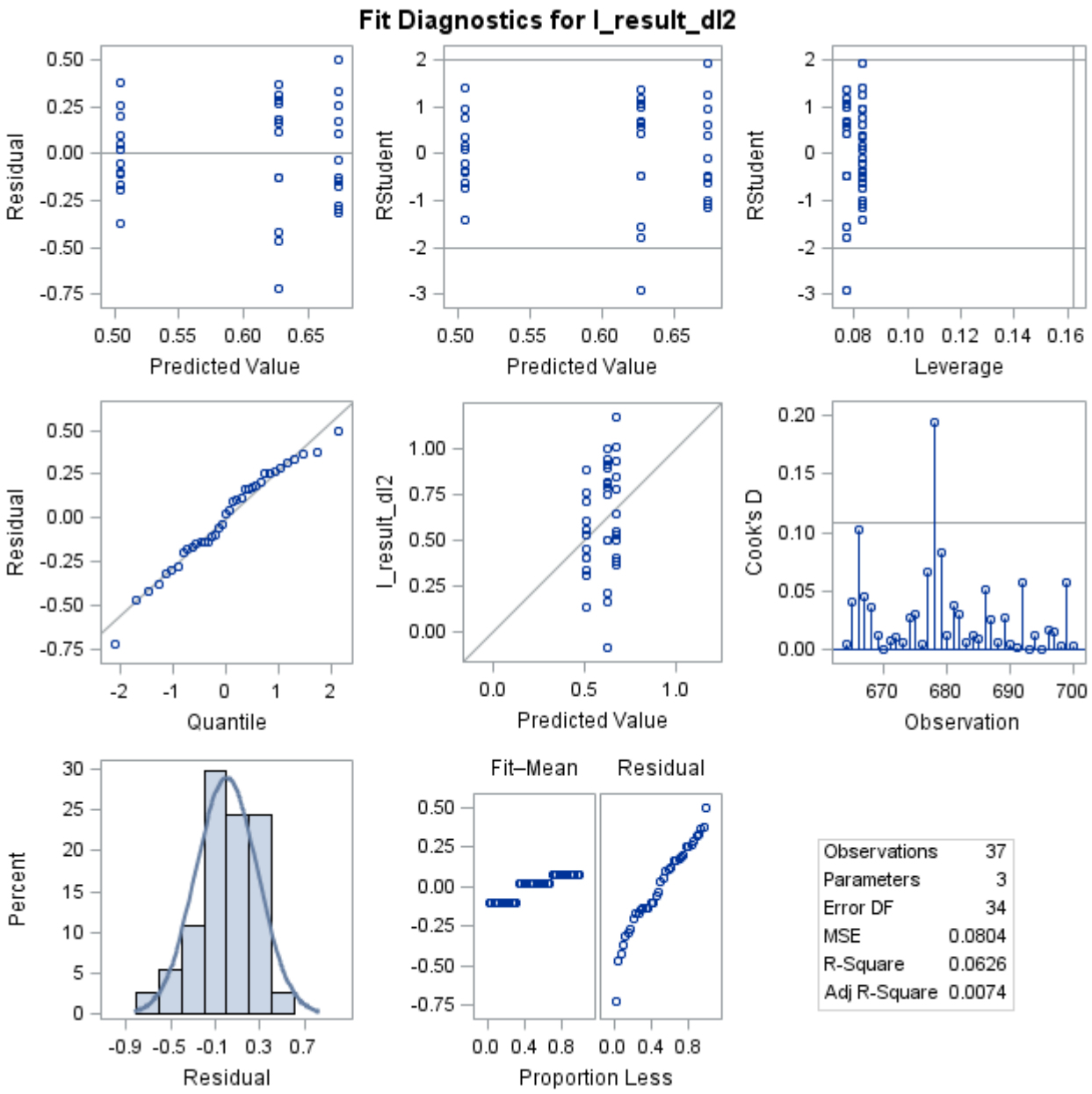
Dependent Variable: l_result_dl2
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.18257395	0.09128698	1.14	0.3333
Error	34	2.73449038	0.08042619		
Corrected Total	36	2.91706433			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.062588	47.04552	0.283595	0.602810

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.18257395	0.09128698	1.14	0.3333

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.18257395	0.09128698	1.14	0.3333


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0804
R-Square 0.0626
Adj R-Square 0.0074

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0319	0.0160	1.74	0.1915
Error	34	0.3124	0.00919		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.55	0.2336
Error	22.1333		

Lipids Lipids
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	0.67366374	0.26933145
Southeast	**13**	0.62752959	0.34717101
Southwest	**12**	0.50517669	0.21110621

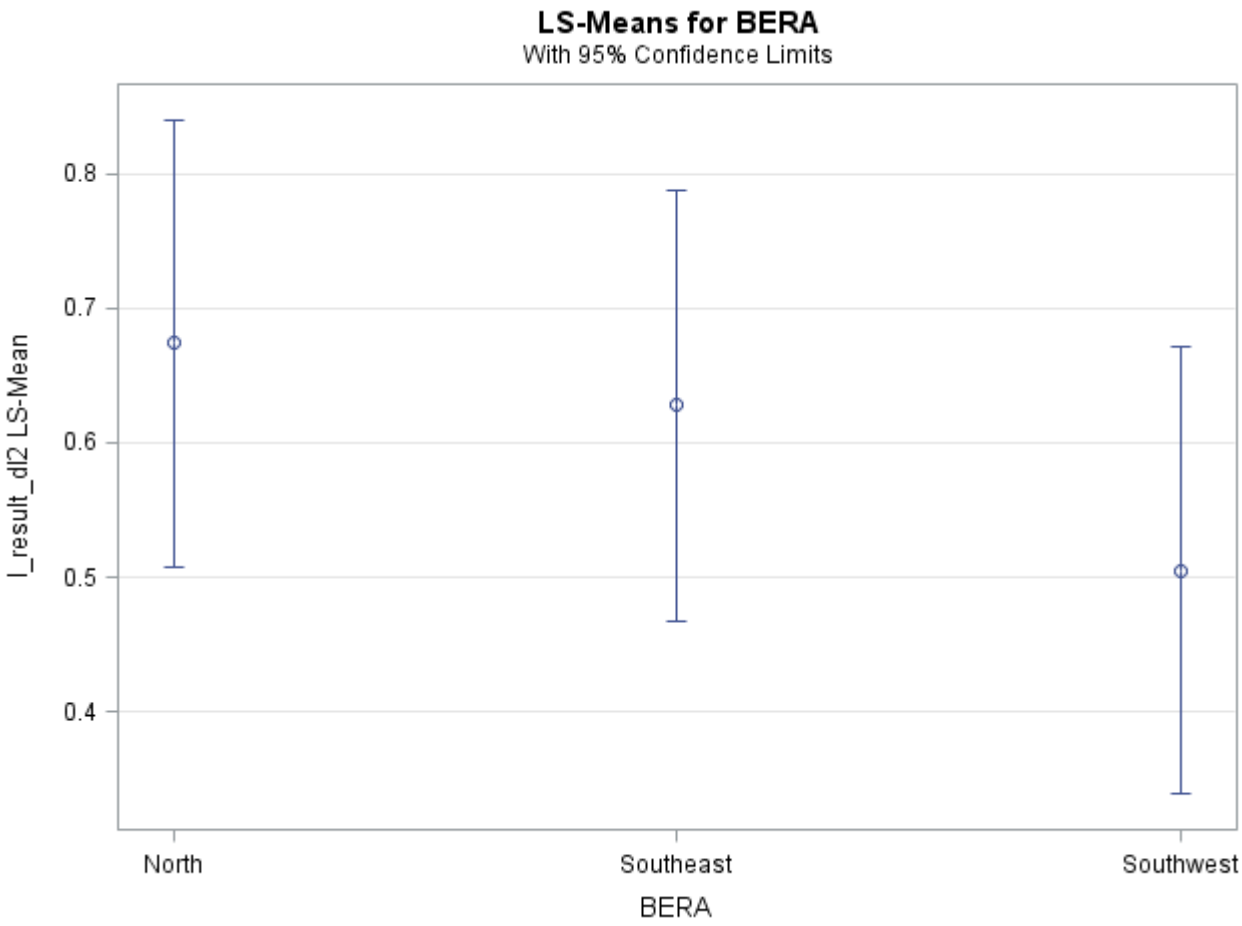
Lipids Lipids
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	0.67366374	1
Southeast	0.62752959	2
Southwest	0.50517669	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9132	0.3248
2	0.9132		0.5342
3	0.3248	0.5342	


LS-Means for BERA
With 95% Confidence Limits
0.8
0.7
0.6
0.5
0.4
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Arsenic
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

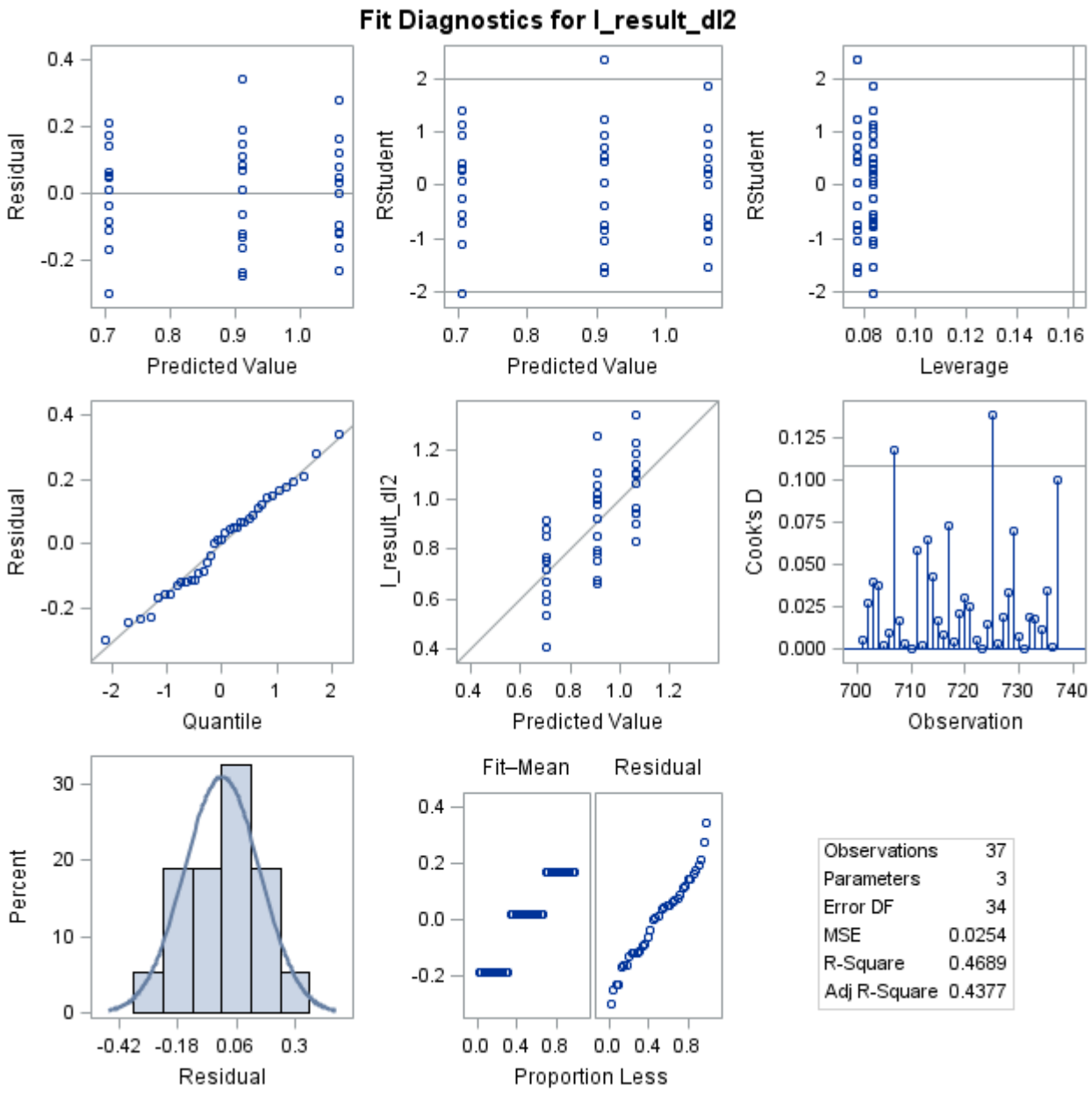
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.76300909	0.38150454	15.01	<.0001
Error	34	0.86409470	0.02541455		
Corrected Total	36	1.62710379			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.468937	17.85481	0.159419	0.892865

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.76300909	0.38150454	15.01	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.76300909	0.38150454	15.01	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0254
R-Square 0.4689
Adj R-Square 0.4377

Metals Arsenic
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.000615	0.000307	0.40	0.6736
Error	34	0.0261	0.000769		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	16.66	<.0001
Error	22.6599		

Metals Arsenic
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	0.70543714	0.14907964
Southeast	**13**	0.91116213	0.17691818
Southwest	**12**	1.06047229	0.14894235

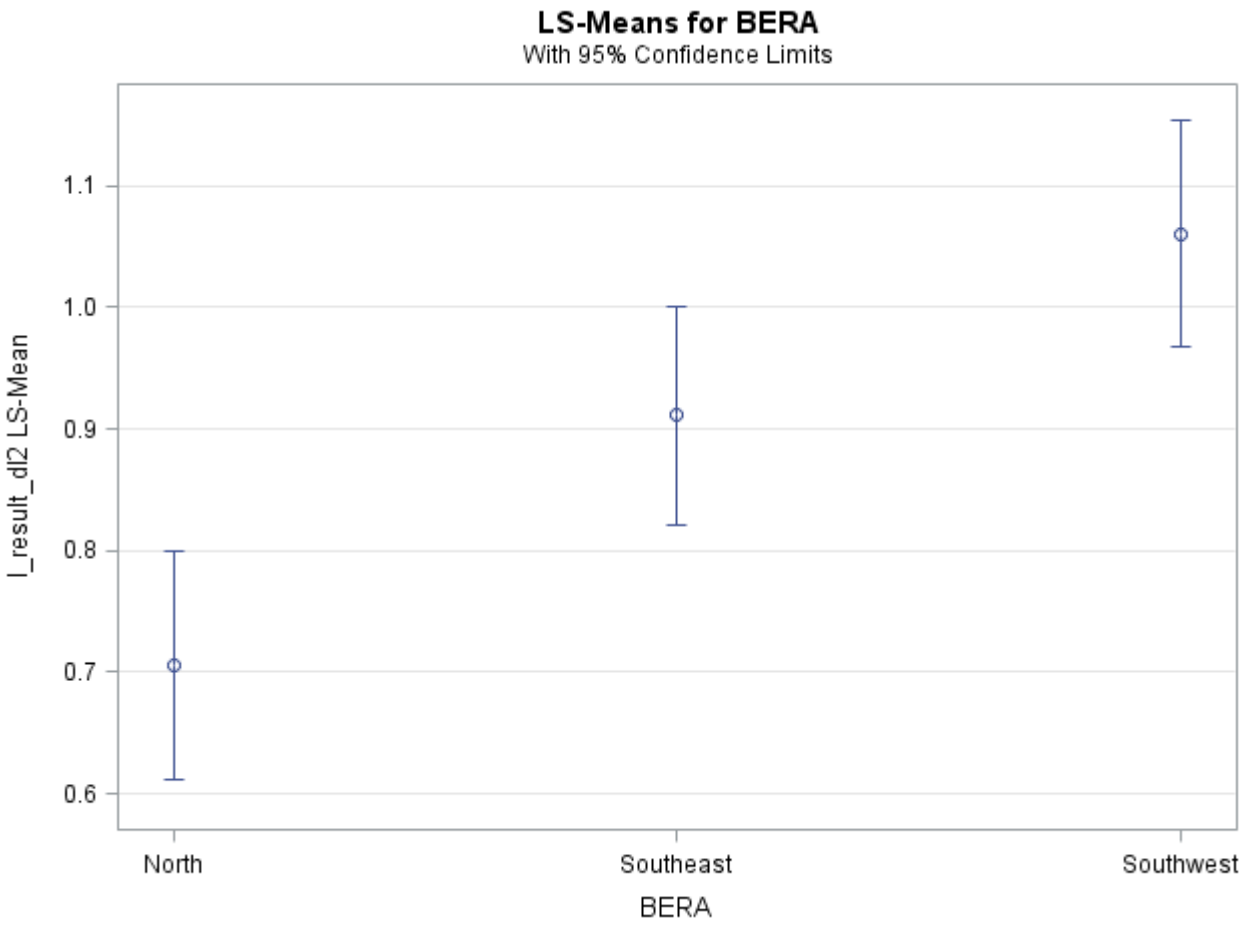
Metals Arsenic
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	0.70543714	1
Southeast	0.91116213	2
Southwest	1.06047229	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0077	<.0001
2	0.0077		0.0637
3	<.0001	0.0637	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
1.1
1.0
0.9
0.8
0.7
0.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Cadmium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Cadmium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

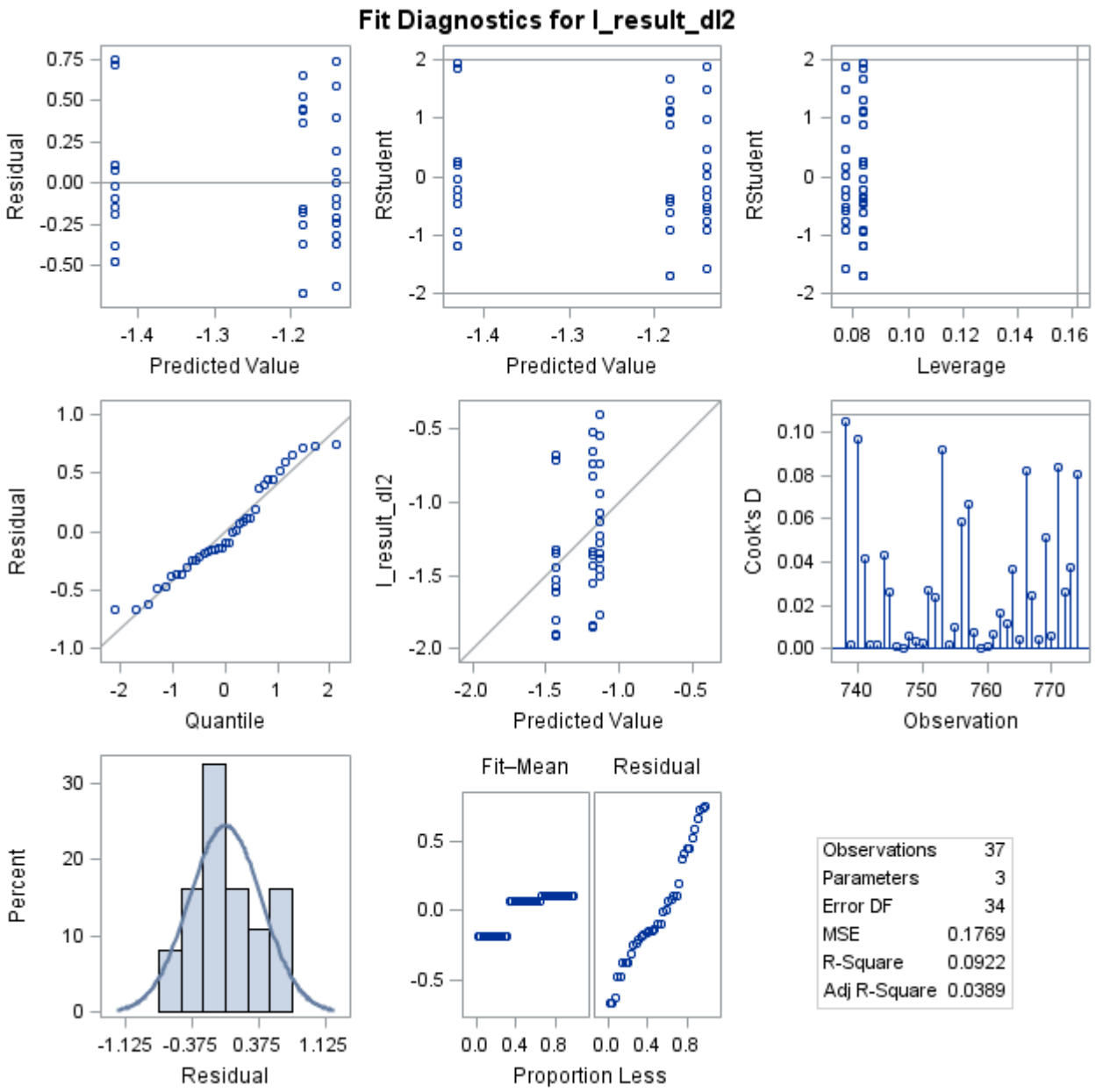
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Cadmium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.61105114	0.30552557	1.73	0.1930
Error	34	6.01298475	0.17685249		
Corrected Total	36	6.62403590			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.092248	-33.68949	0.420538	-1.248278

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.61105114	0.30552557	1.73	0.1930

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.61105114	0.30552557	1.73	0.1930


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.1769
R-Square 0.0922
Adj R-Square 0.0389

Metals Cadmium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Cadmium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0254	0.0127	0.39	0.6801
Error	34	1.1069	0.0326		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.83	0.1841
Error	22.3477		

Metals Cadmium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Cadmium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	12	-1.43194746	0.40026343
Southeast	13	-1.13913278	0.39243270
Southwest	12	-1.18284823	0.46735472

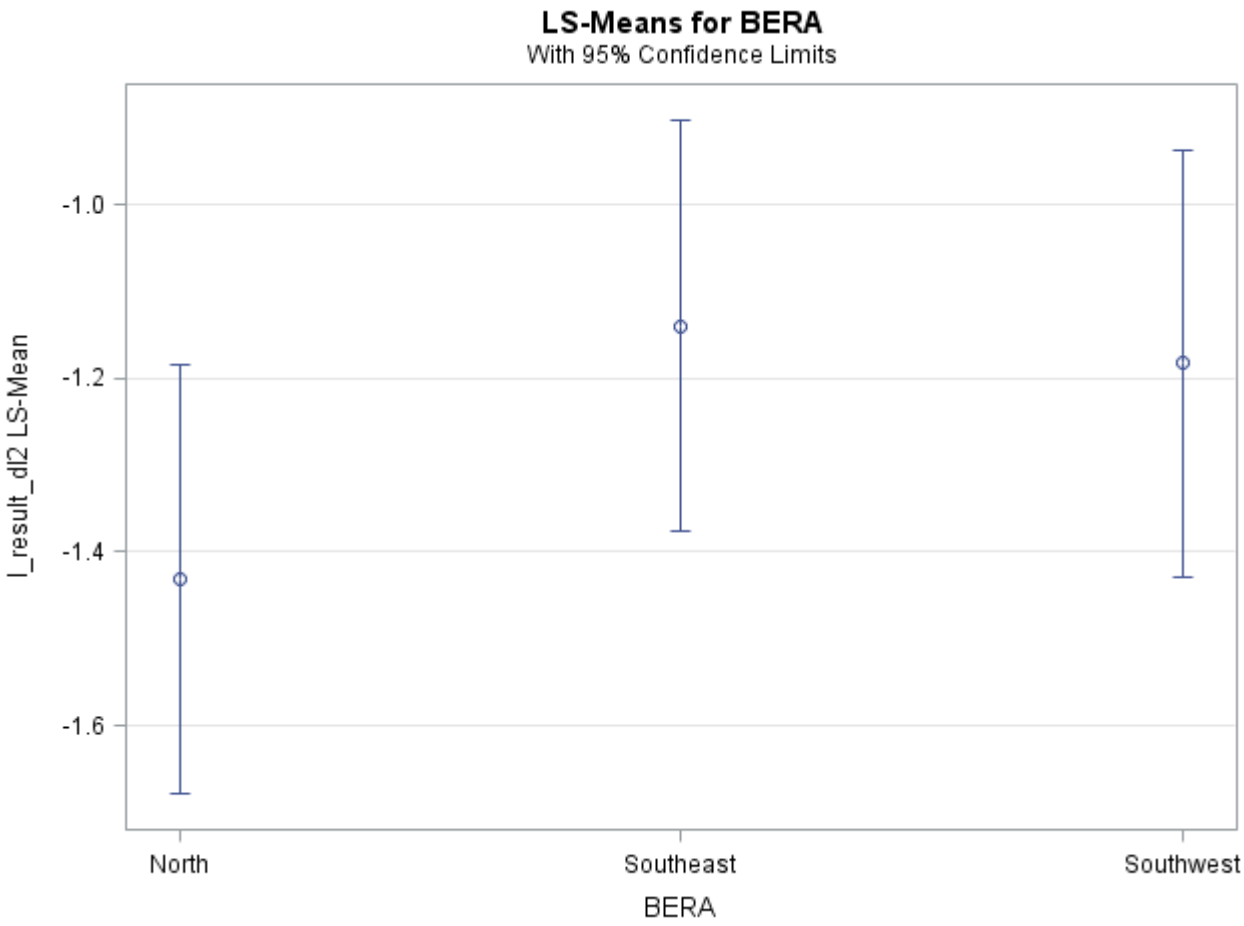
Metals Cadmium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Cadmium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.43194746	1
Southeast	-1.13913278	2
Southwest	-1.18284823	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2056	0.3269
2	0.2056		0.9636
3	0.3269	0.9636	


LS-Means for BERA
With 95% Confidence Limits
-1.0
-1.2
-1.4
-1.6
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Chromium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Chromium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

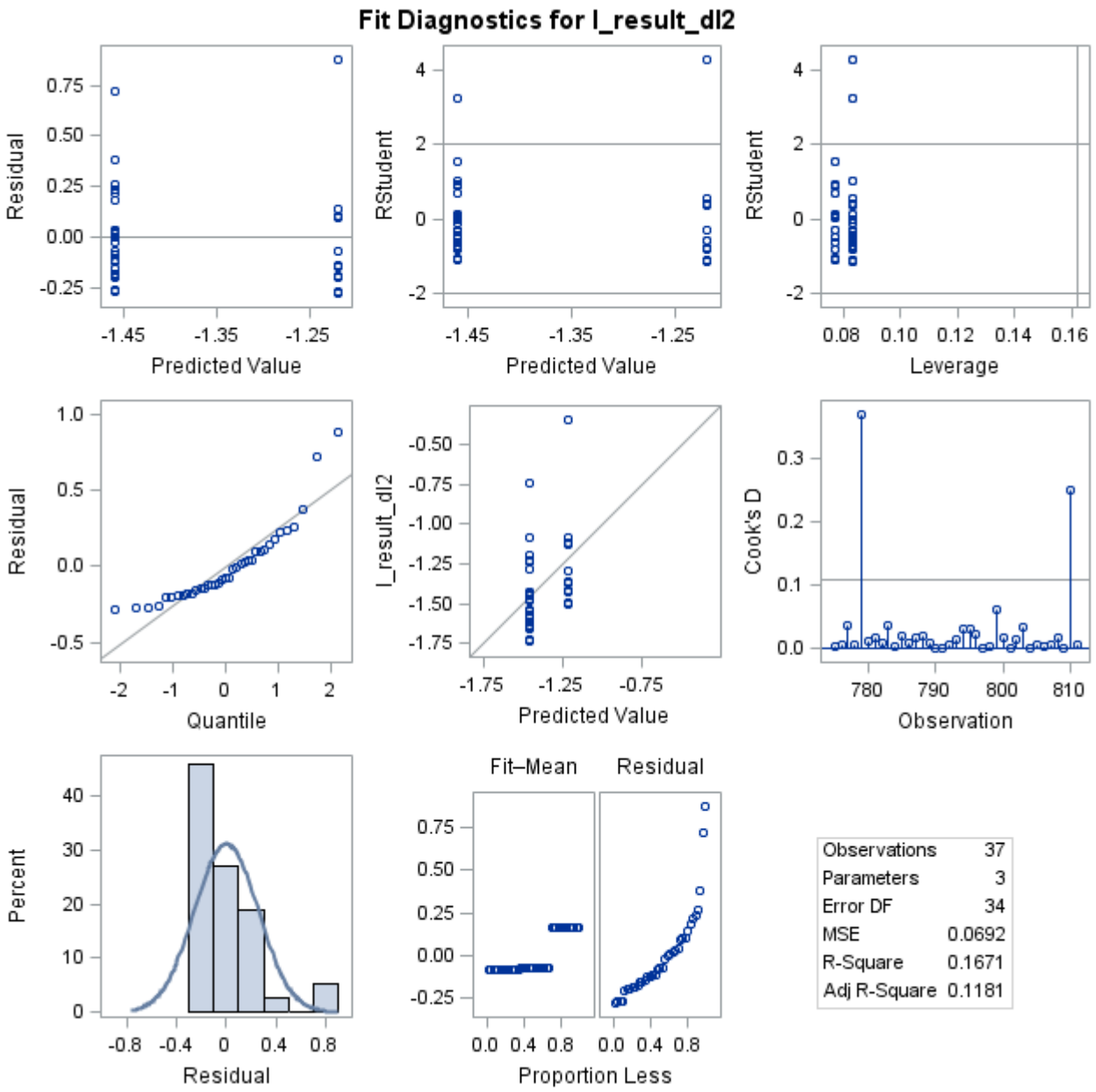
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.47237164	0.23618582	3.41	0.0447
Error	34	2.35427566	0.06924340		
Corrected Total	36	2.82664731			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.167114	-19.03682	0.263141	-1.382276

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.47237164	0.23618582	3.41	0.0447

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.47237164	0.23618582	3.41	0.0447


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0692
R-Square 0.1671
Adj R-Square 0.1181

Metals Chromium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0175	0.00875	0.39	0.6805
Error	34	0.7644	0.0225		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.71	0.0889
Error	21.5068		

Metals Chromium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	-1.21918921	0.31663848
Southeast	**13**	-1.46083821	0.20558103
Southwest	**12**	-1.46025449	0.26011427

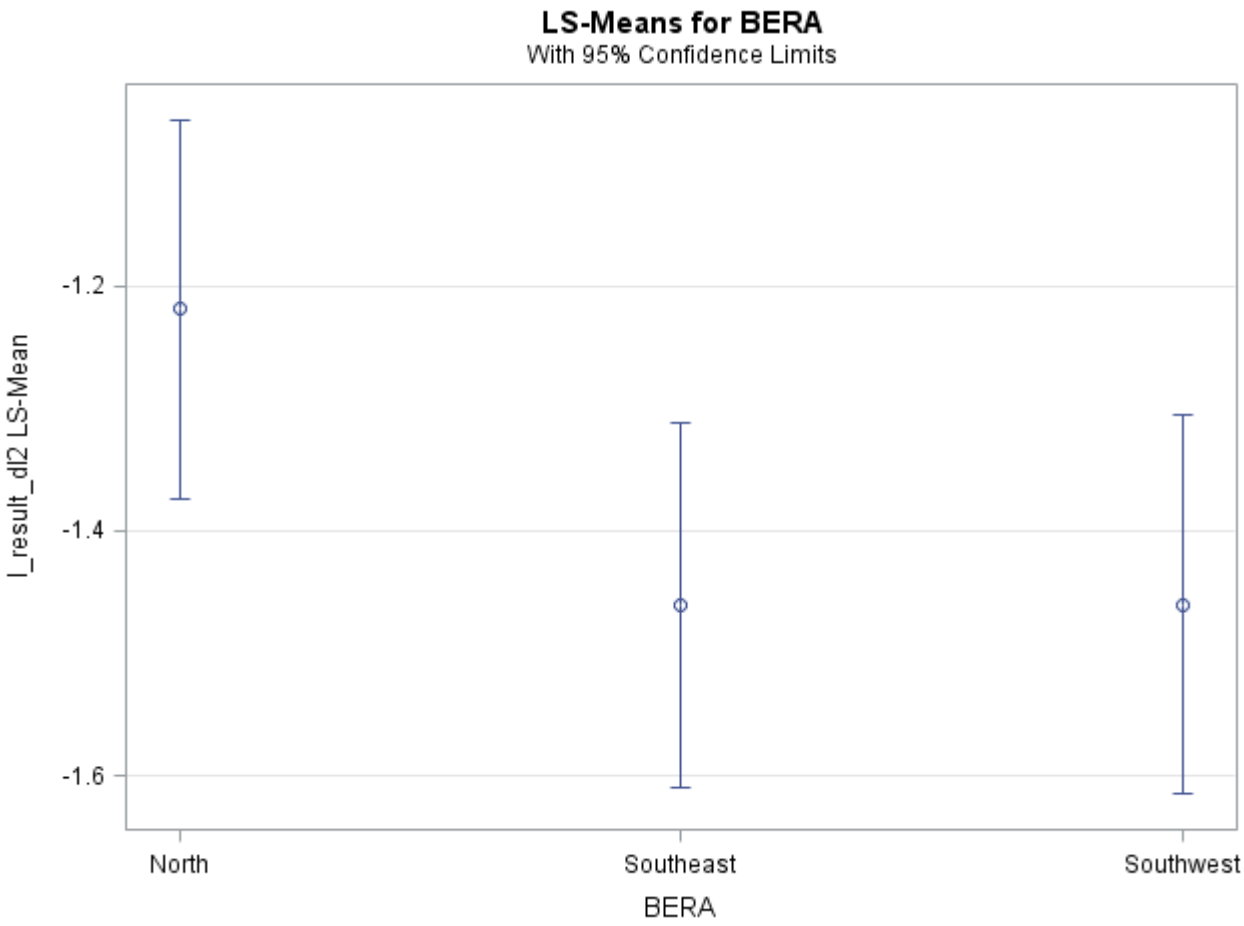
Metals Chromium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.21918921	1
Southeast	-1.46083821	2
Southwest	-1.46025449	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0703	0.0781
2	0.0703		1.0000
3	0.0781	1.0000	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
-1.2
-1.4
-1.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Copper
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

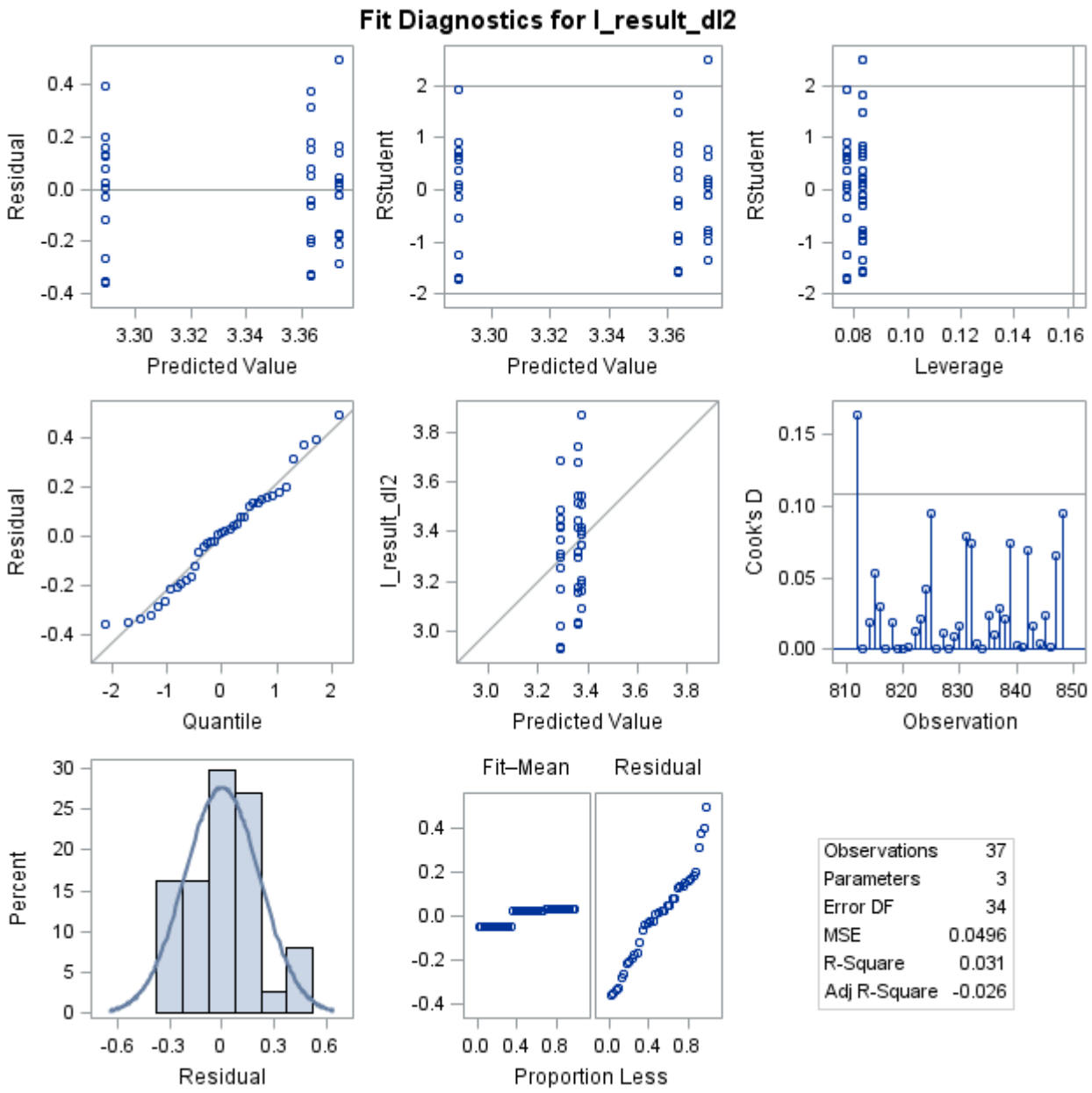
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.05394726	0.02697363	0.54	0.5853
Error	34	1.68562743	0.04957728		
Corrected Total	36	1.73957469			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.031012	6.665717	0.222660	3.340369

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.05394726	0.02697363	0.54	0.5853

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.05394726	0.02697363	0.54	0.5853


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0496
R-Square 0.031
Adj R-Square -0.026

Metals Copper
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.000645	0.000322	0.09	0.9101
Error	34	0.1161	0.00341		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.54	0.5918
Error	22.5517		

Metals Copper
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	3.37348353	0.20919915
Southeast	**13**	3.28879763	0.22340644
Southwest	**12**	3.36312404	0.23457797

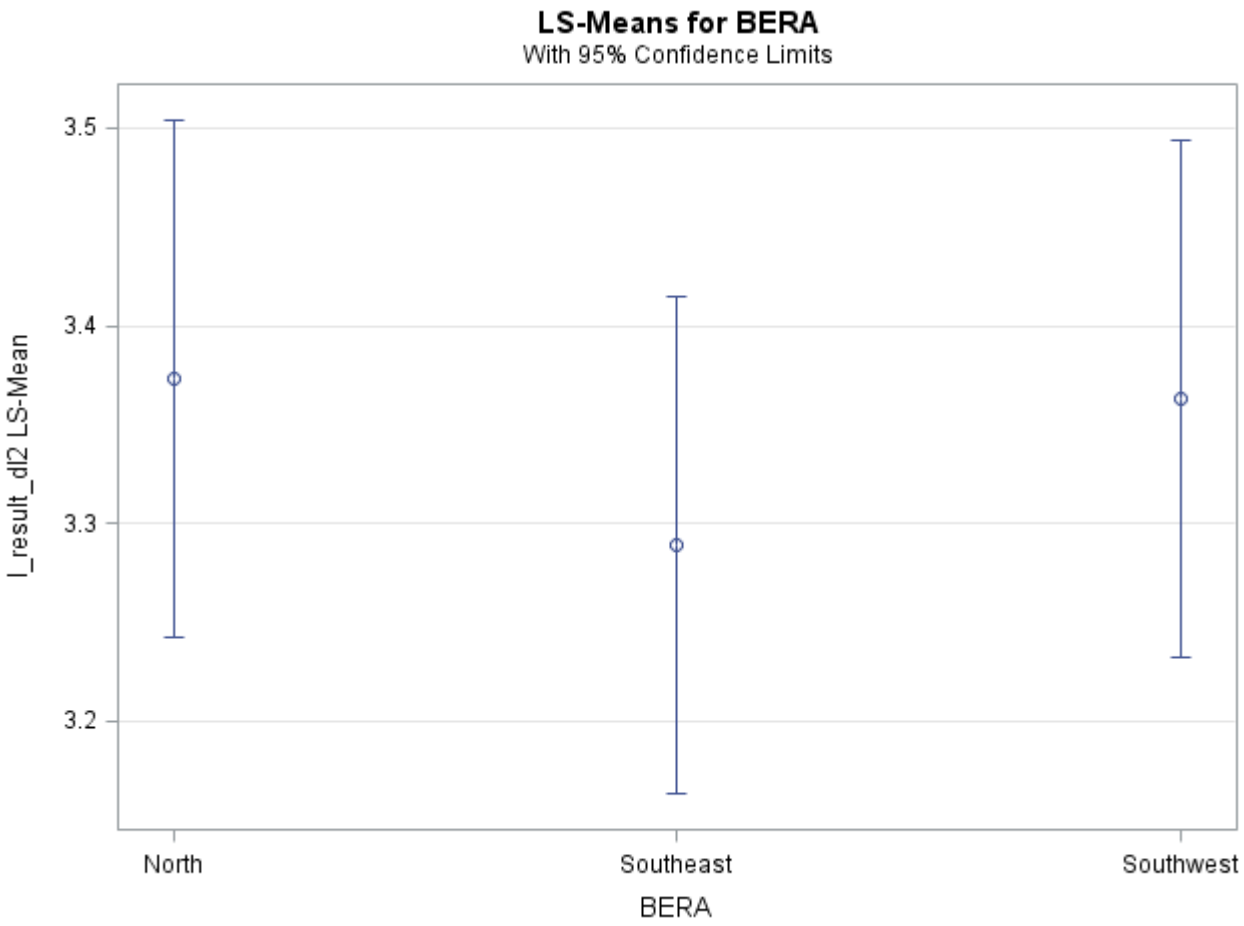
Metals Copper
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.37348353	1
Southeast	3.28879763	2
Southwest	3.36312404	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6129	0.9929
2	0.6129		0.6849
3	0.9929	0.6849	


LS-Means for BERA
With 95% Confidence Limits
3.5
3.4
3.3
3.2
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Lead
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Lead
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

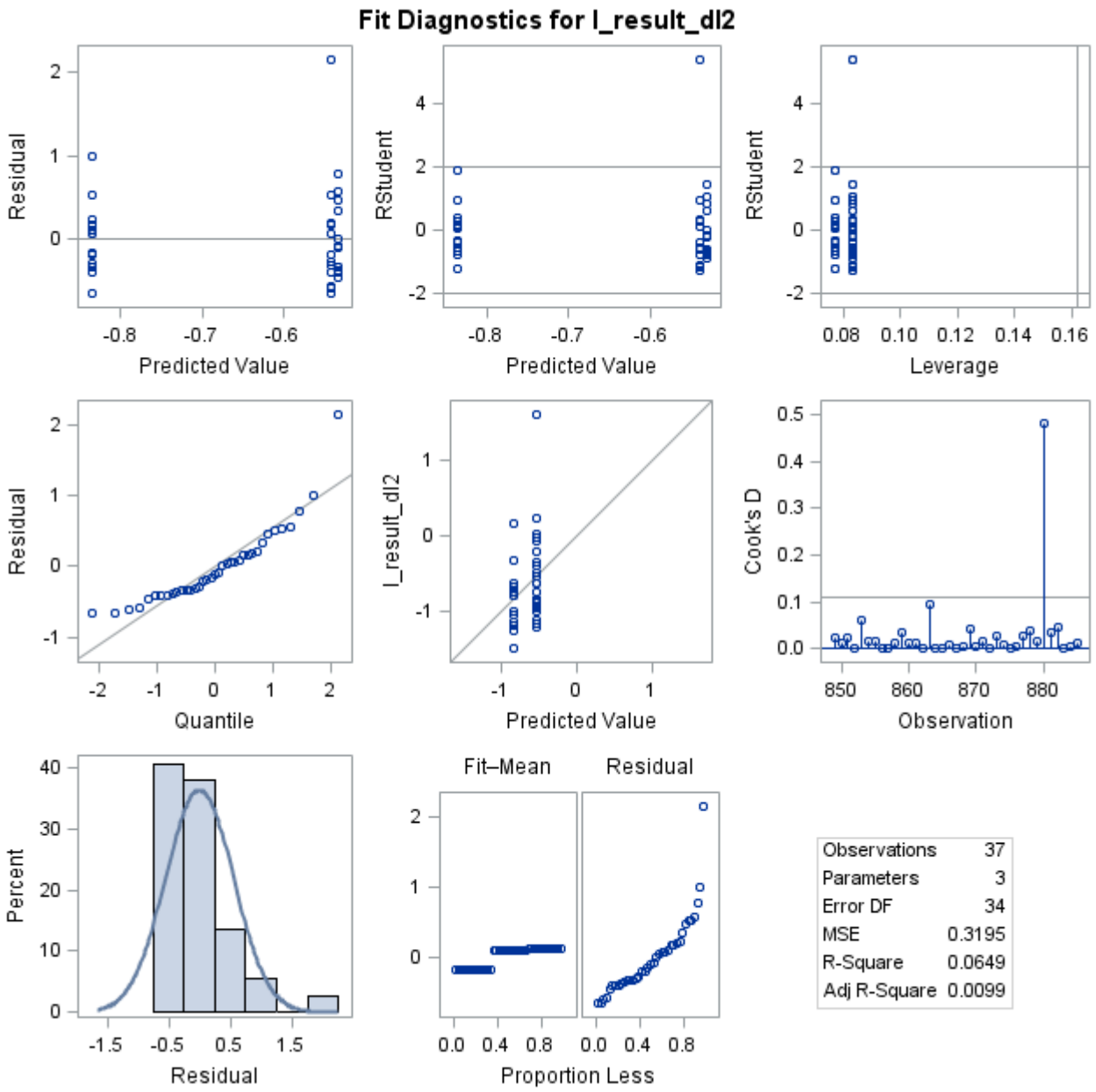
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.75403037	0.37701518	1.18	0.3195
Error	34	10.86161058	0.31945913		
Corrected Total	36	11.61564094			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.064915	-88.05772	0.565207	-0.641860

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.75403037	0.37701518	1.18	0.3195

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.75403037	0.37701518	1.18	0.3195


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.3195
R-Square 0.0649
Adj R-Square 0.0099

Metals Lead
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.1271	0.5635	0.96	0.3933
Error	34	19.9709	0.5874		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.67	0.2113
Error	21.4125		

Metals Lead
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	-0.53225071	0.43289857
Southeast	**13**	-0.83576200	0.43345302
Southwest	**12**	-0.54140844	0.77139893

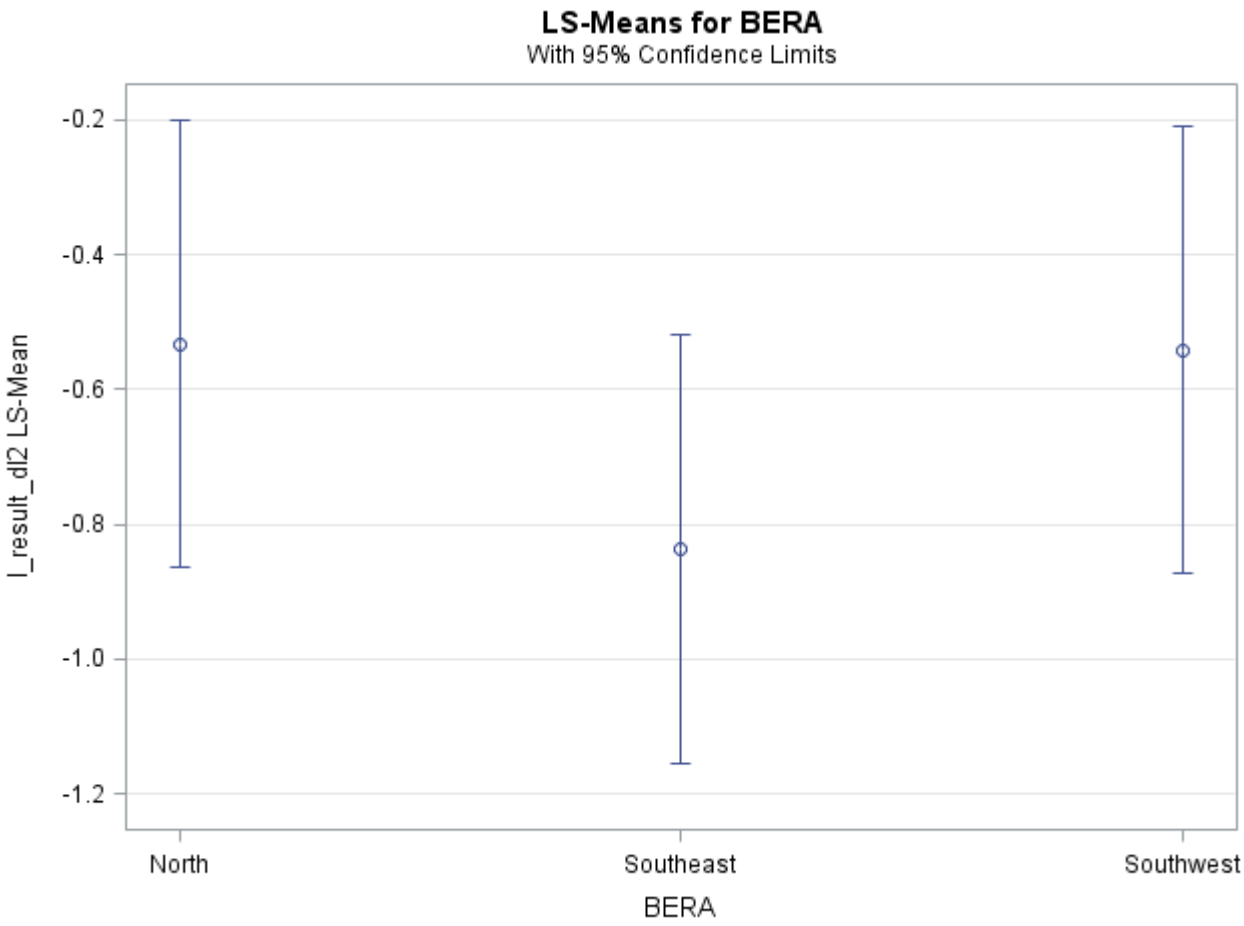
Metals Lead
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.53225071	1
Southeast	-0.83576200	2
Southwest	-0.54140844	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3826	0.9991
2	0.3826		0.4044
3	0.9991	0.4044	


LS-Means for BERA
With 95% Confidence Limits
-0.2
-0.4
-0.6
-0.8
-1.0
-1.2
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

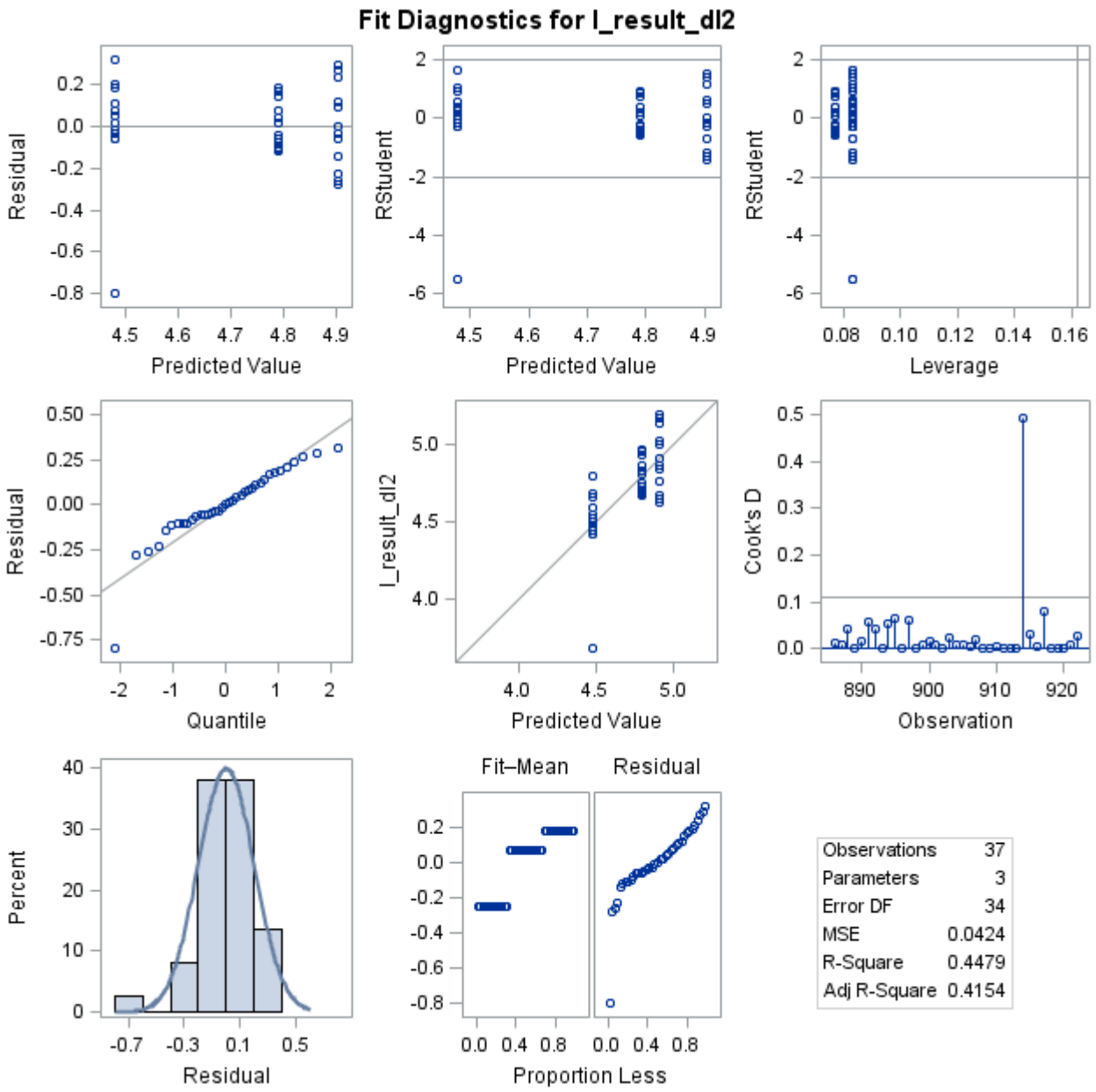
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.17046619	0.58523310	13.79	<.0001
Error	34	1.44280505	0.04243544		
Corrected Total	36	2.61327124			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.447893	4.359246	0.205999	4.725557

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.17046619	0.58523310	13.79	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.17046619	0.58523310	13.79	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0424
R-Square 0.4479
Adj R-Square 0.4154

Metals Mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0215	0.0108	0.99	0.3827
Error	34	0.3699	0.0109		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	9.12	0.0017
Error	19.1146		

Metals Mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	12	4.90347457	0.20338356
Southeast	13	4.79002099	0.11088272
Southwest	12	4.47780252	0.27638112

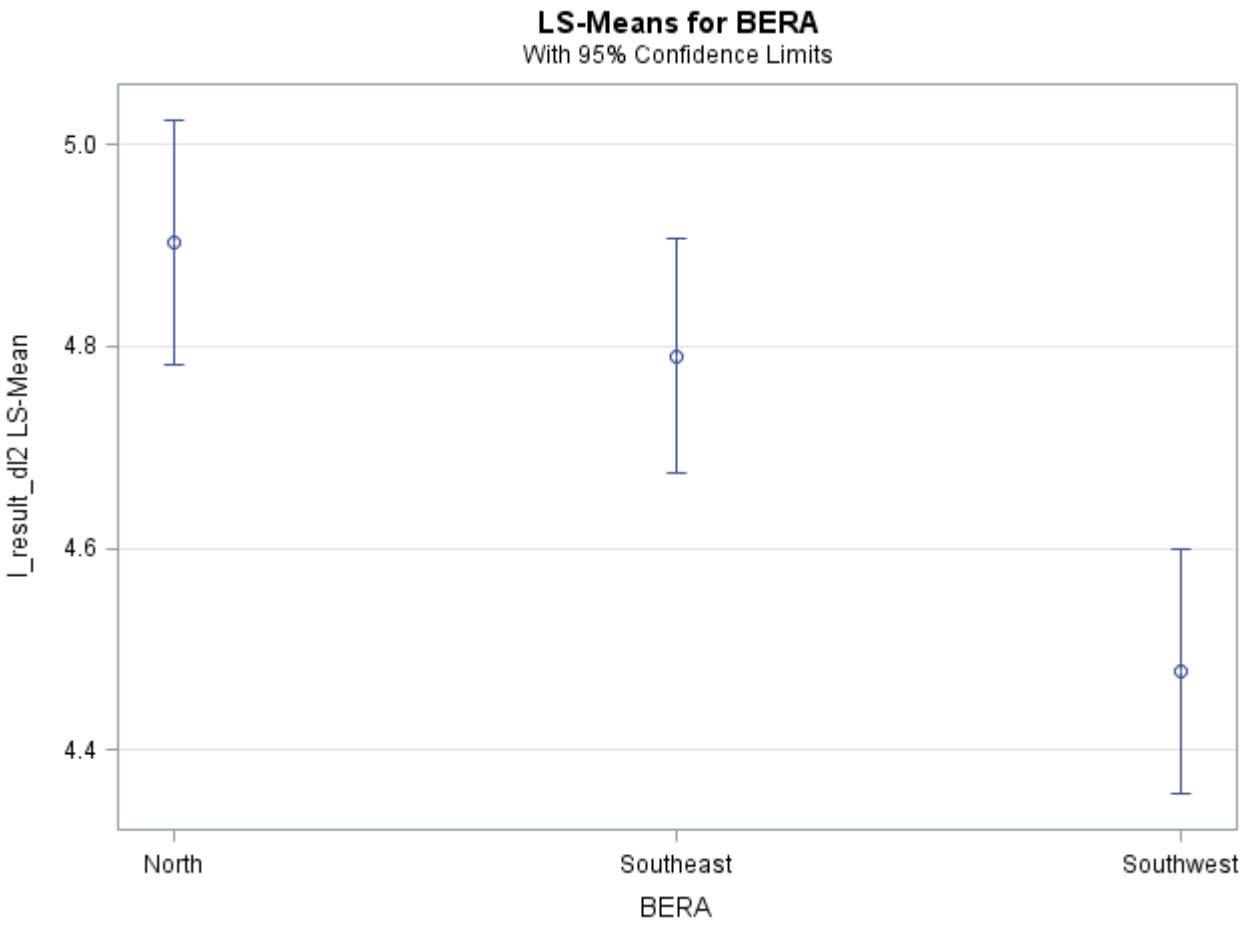
Metals Mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.90347457	1
Southeast	4.79002099	2
Southwest	4.47780252	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3646	<.0001
2	0.3646		0.0017
3	<.0001	0.0017	


LS-Means for BERA
With 95% Confidence Limits
5.0
4.8
4.6
4.4
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Methyl mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 34

Number of Observations Used 34

Metals Methyl mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

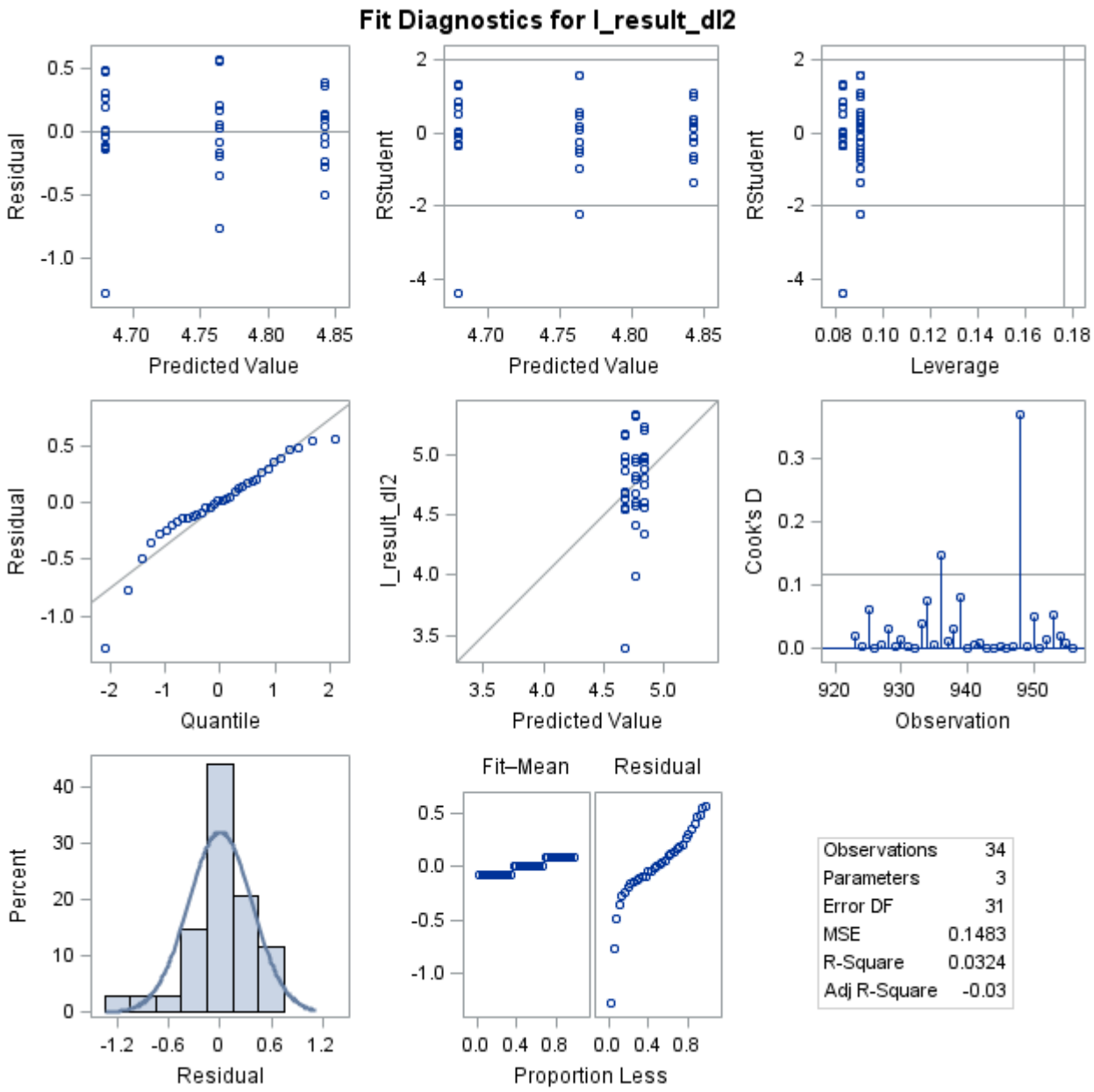
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.15374680	0.07687340	0.52	0.6007
Error	31	4.59883725	0.14834959		
Corrected Total	33	4.75258405			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.032350	8.092624	0.385162	4.759417

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.15374680	0.07687340	0.52	0.6007

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.15374680	0.07687340	0.52	0.6007


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 34
Parameters 3
Error DF 31
MSE 0.1483
R-Square 0.0324
Adj R-Square -0.03

Metals Methyl mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0993	0.0497	0.54	0.5871
Error	31	2.8413	0.0917		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.56	0.5805
Error	19.8798		

Metals Methyl mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**11**	4.84266182	0.26928860
Southeast	**11**	4.76373825	0.38785390
Southwest	**12**	4.67914938	0.46410885

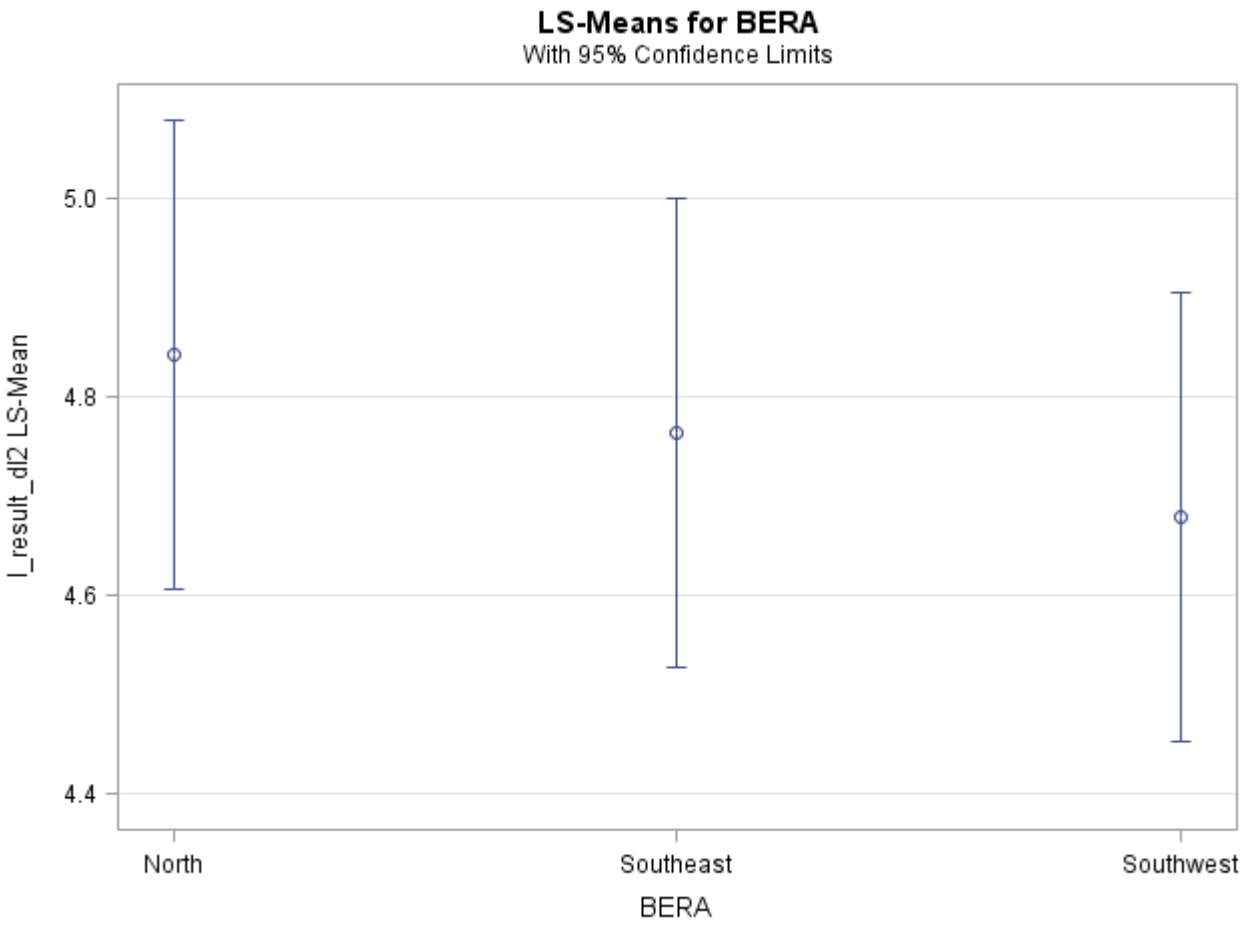
Metals Methyl mercury
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.84266182	1
Southeast	4.76373825	2
Southwest	4.67914938	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8810	0.5719
2	0.8810		0.8592
3	0.5719	0.8592	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5.0
4.8
4.6
4.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Nickel result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Nickel
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

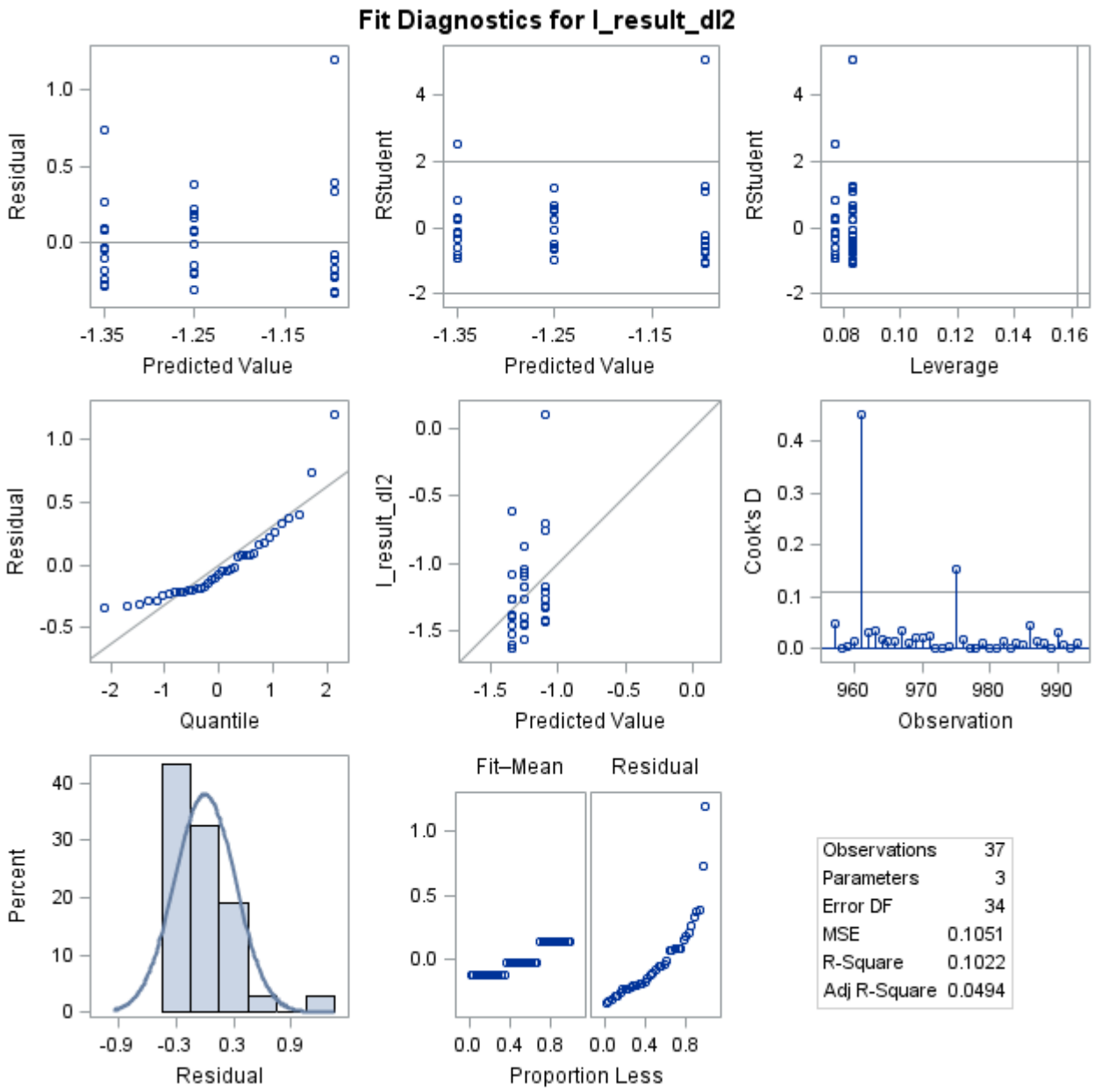
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Nickel result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.40692142	0.20346071	1.94	0.1598
Error	34	3.57308086	0.10509061		
Corrected Total	36	3.98000228			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.102242	-26.24944	0.324177	-1.234985

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.40692142	0.20346071	1.94	0.1598

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.40692142	0.20346071	1.94	0.1598


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.1051
R-Square 0.1022
Adj R-Square 0.0494

Metals Nickel
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Nickel result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1332	0.0666	1.12	0.3366
Error	34	2.0144	0.0592		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.46	0.2537
Error	21.2009		

Metals Nickel
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Nickel result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	12	-1.09523768	0.44498665
Southeast	13	-1.34916306	0.27442887
Southwest	12	-1.25104084	0.21131667

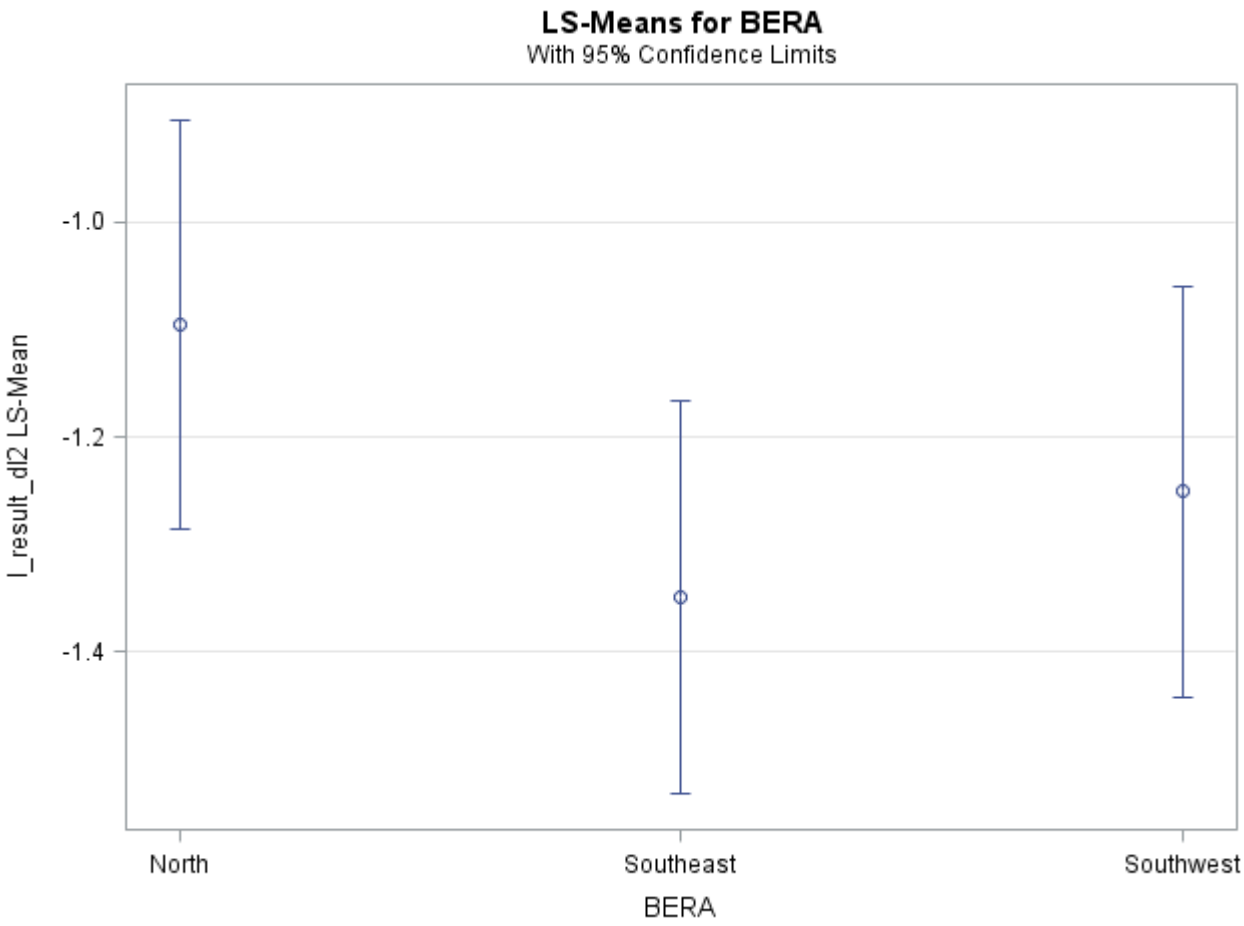
Metals Nickel
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Nickel result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.09523768	1
Southeast	-1.34916306	2
Southwest	-1.25104084	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1386	0.4746
2	0.1386		0.7320
3	0.4746	0.7320	


LS-Means for BERA
With 95% Confidence Limits
-1.0
-1.2
-1.4
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Selenium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

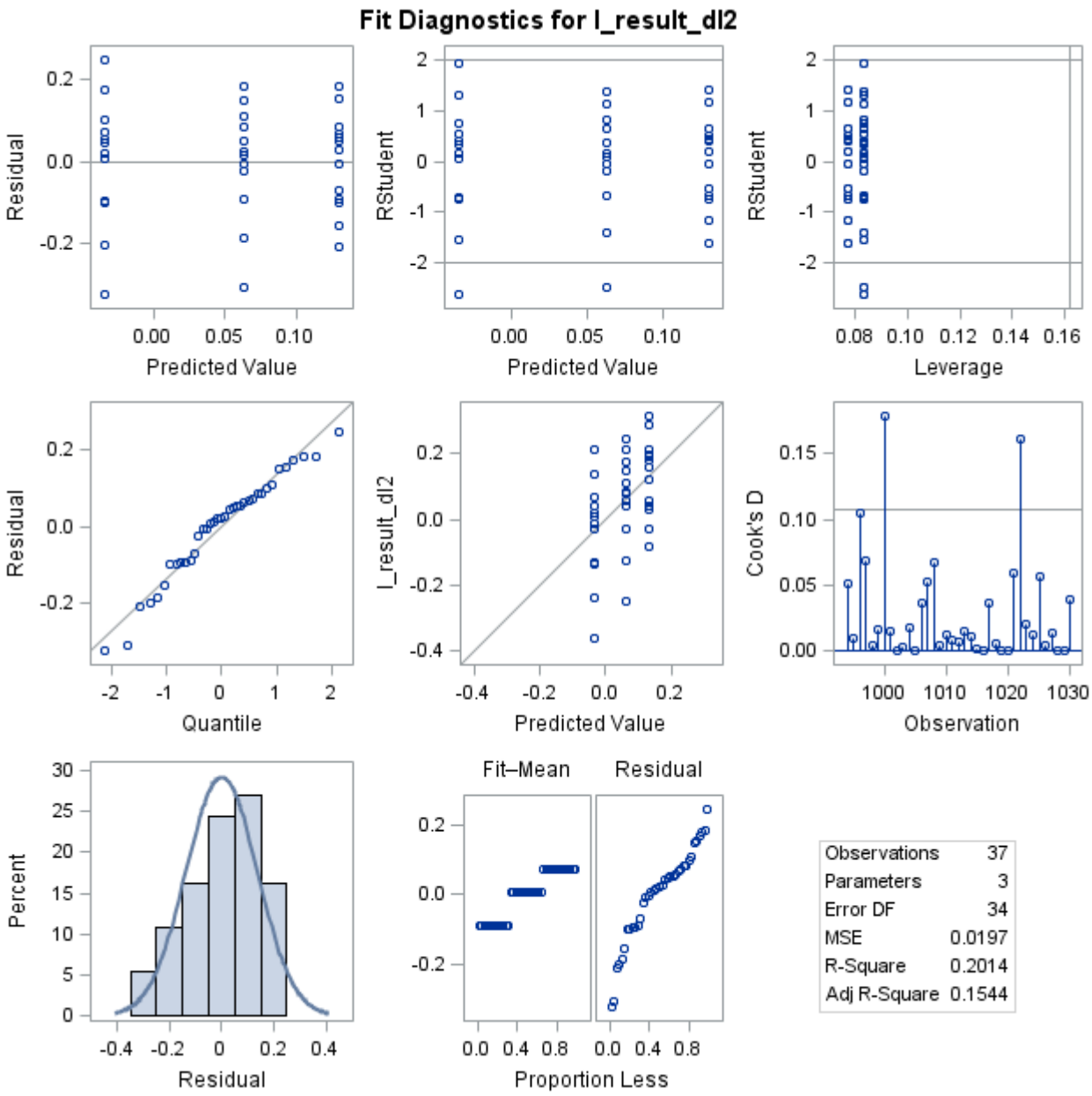
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.16912673	0.08456337	4.29	0.0219
Error	34	0.67069024	0.01972618		
Corrected Total	36	0.83981698			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.201385	255.9571	0.140450	0.054872

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.16912673	0.08456337	4.29	0.0219

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.16912673	0.08456337	4.29	0.0219


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0197
R-Square 0.2014
Adj R-Square 0.1544

Metals Selenium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.000663	0.000331	0.50	0.6099
Error	34	0.0225	0.000660		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	4.09	0.0310
Error	21.9556		

Metals Selenium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	-0.03438264	0.15967429
Southeast	**13**	0.12966228	0.11900572
Southwest	**12**	0.06310523	0.14151365

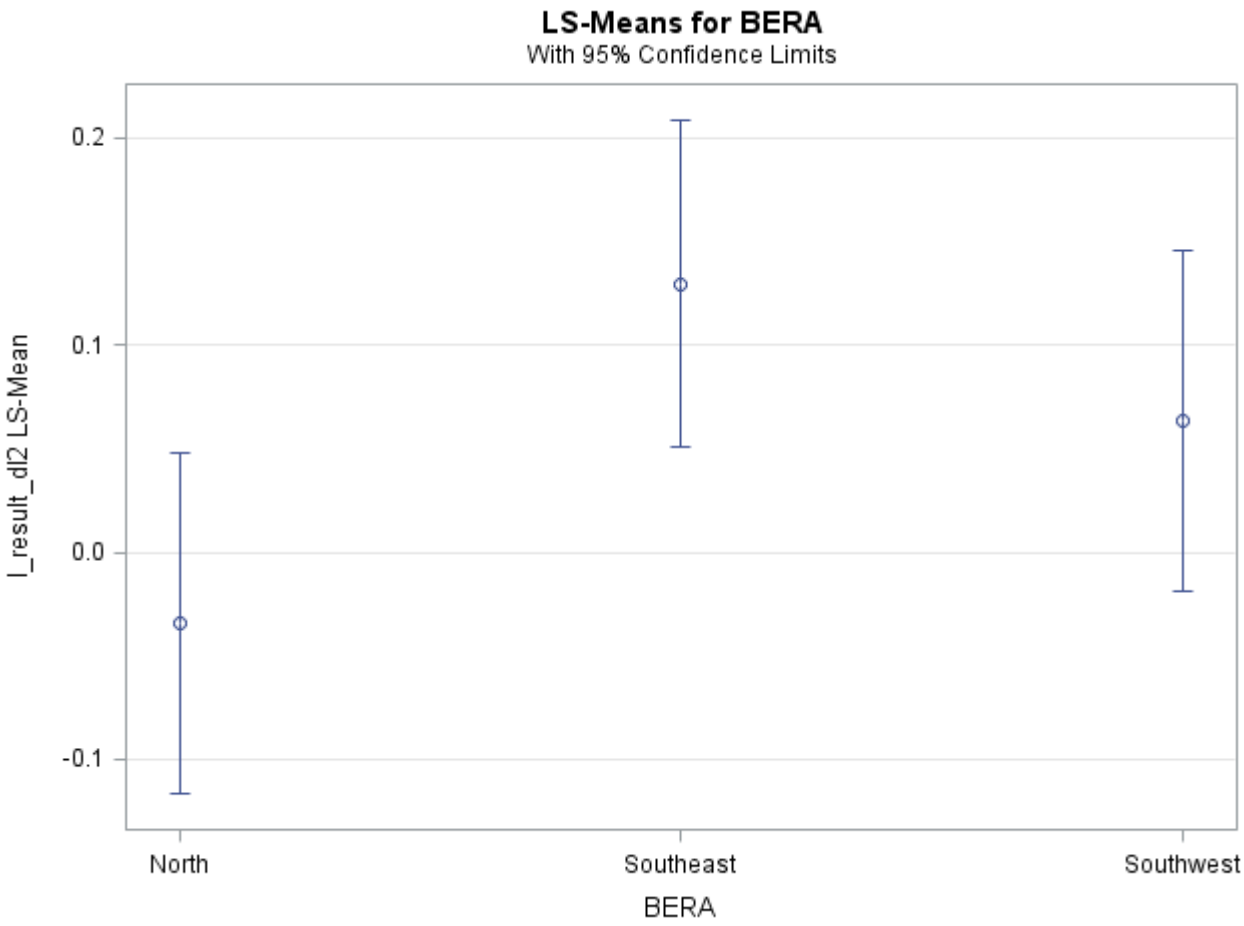
Metals Selenium
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.03438264	1
Southeast	0.12966228	2
Southwest	0.06310523	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0167	0.2198
2	0.0167		0.4708
3	0.2198	0.4708	


LS-Means for BERA
With 95% Confidence Limits
0.2
0.1
0.0
-0.1
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Silver
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Silver
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

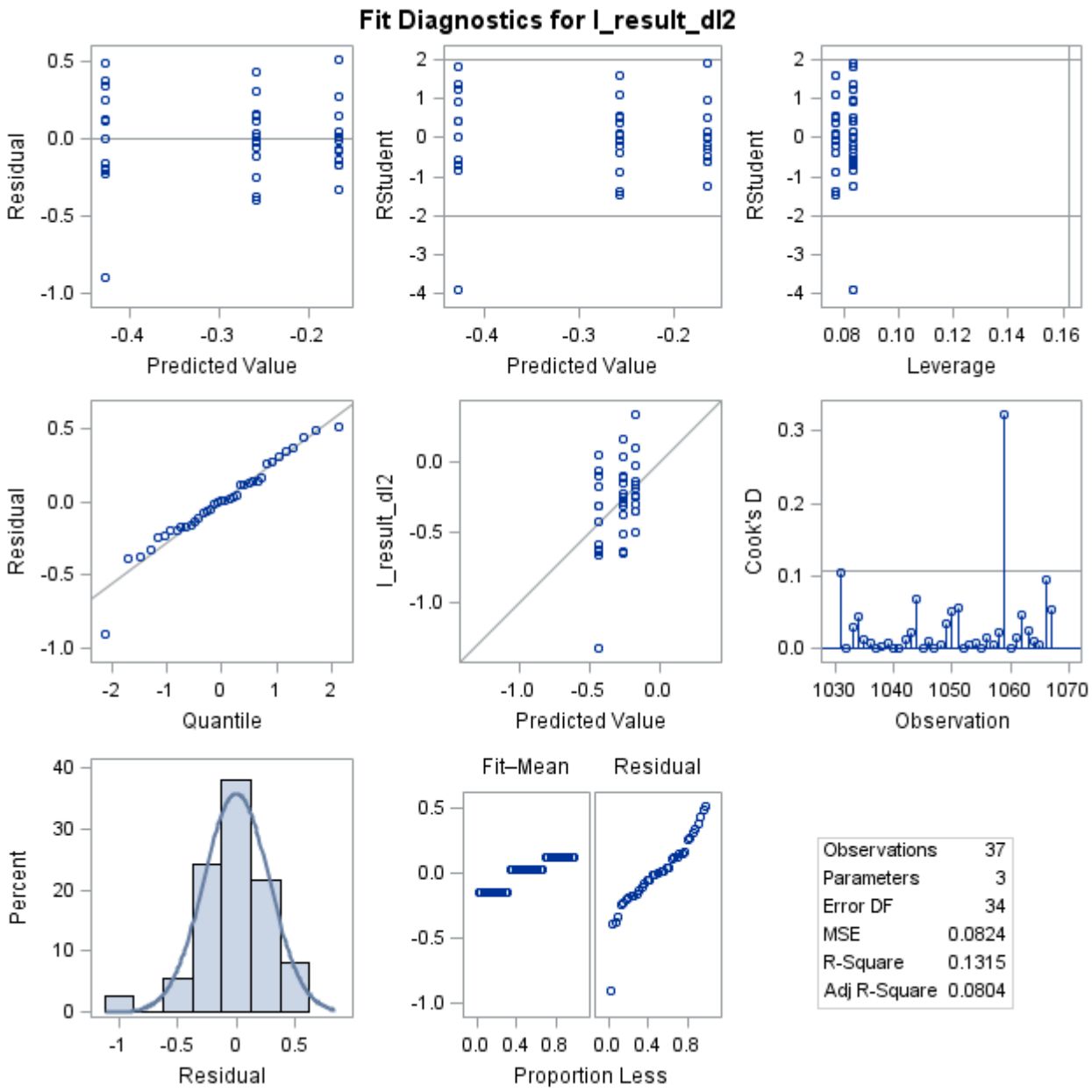
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.42413236	0.21206618	2.57	0.0911
Error	34	2.80180454	0.08240602		
Corrected Total	36	3.22593690			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.131476	-101.4985	0.287064	-0.282826

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.42413236	0.21206618	2.57	0.0911

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.42413236	0.21206618	2.57	0.0911


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0824
R-Square 0.1315
Adj R-Square 0.0804

Metals Silver
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0492	0.0246	1.26	0.2958
Error	34	0.6629	0.0195		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.13	0.1431
Error	21.7203		

Metals Silver
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	-0.16574437	0.22449041
Southeast	**13**	-0.25734910	0.24320104
Southwest	**12**	-0.42750873	0.37388479

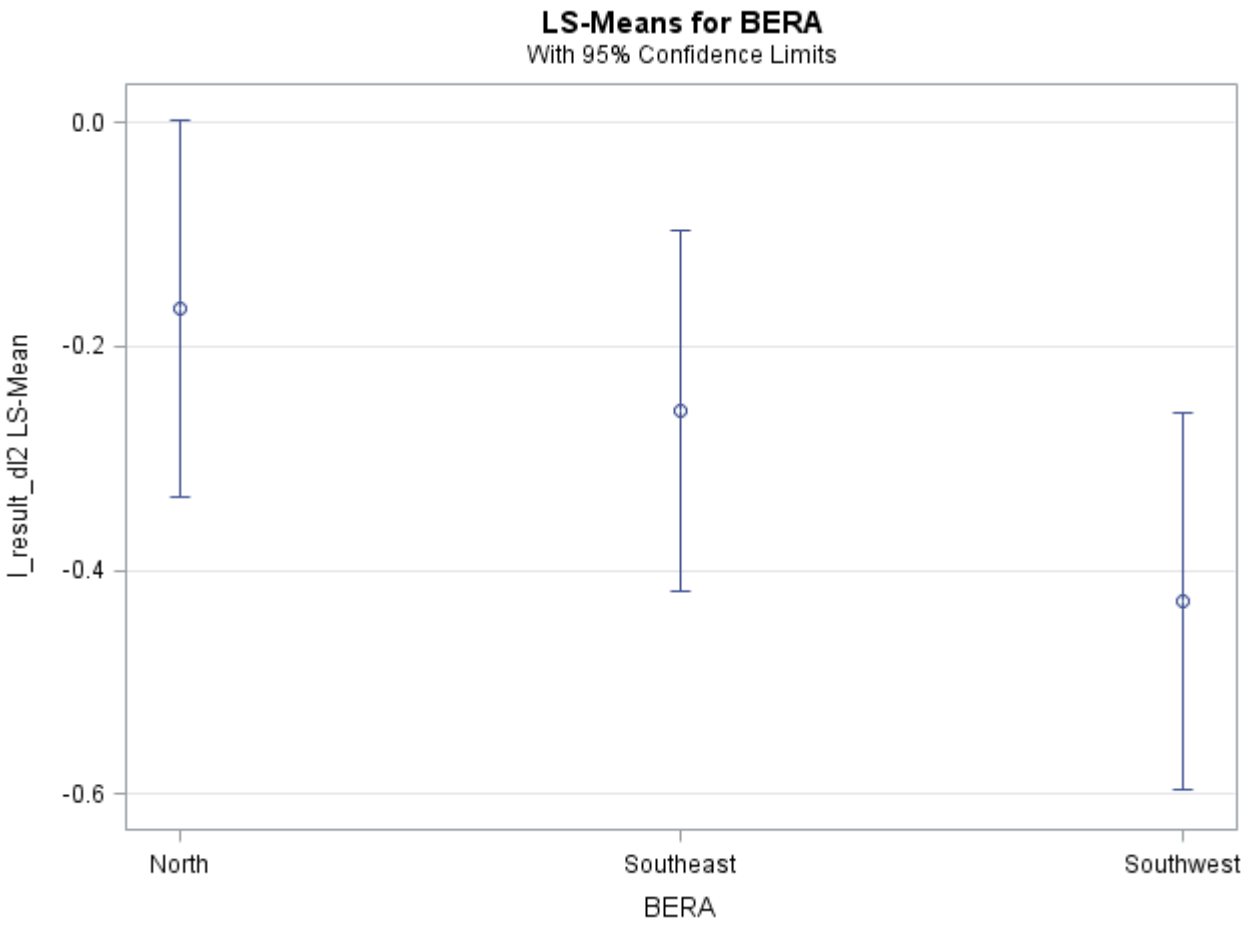
Metals Silver
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.16574437	1
Southeast	-0.25734910	2
Southwest	-0.42750873	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7073	0.0798
2	0.7073		0.3126
3	0.0798	0.3126	


LS-Means for BERA
With 95% Confidence Limits
0.0
-0.2
-0.4
-0.6
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Zinc
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Metals Zinc
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure

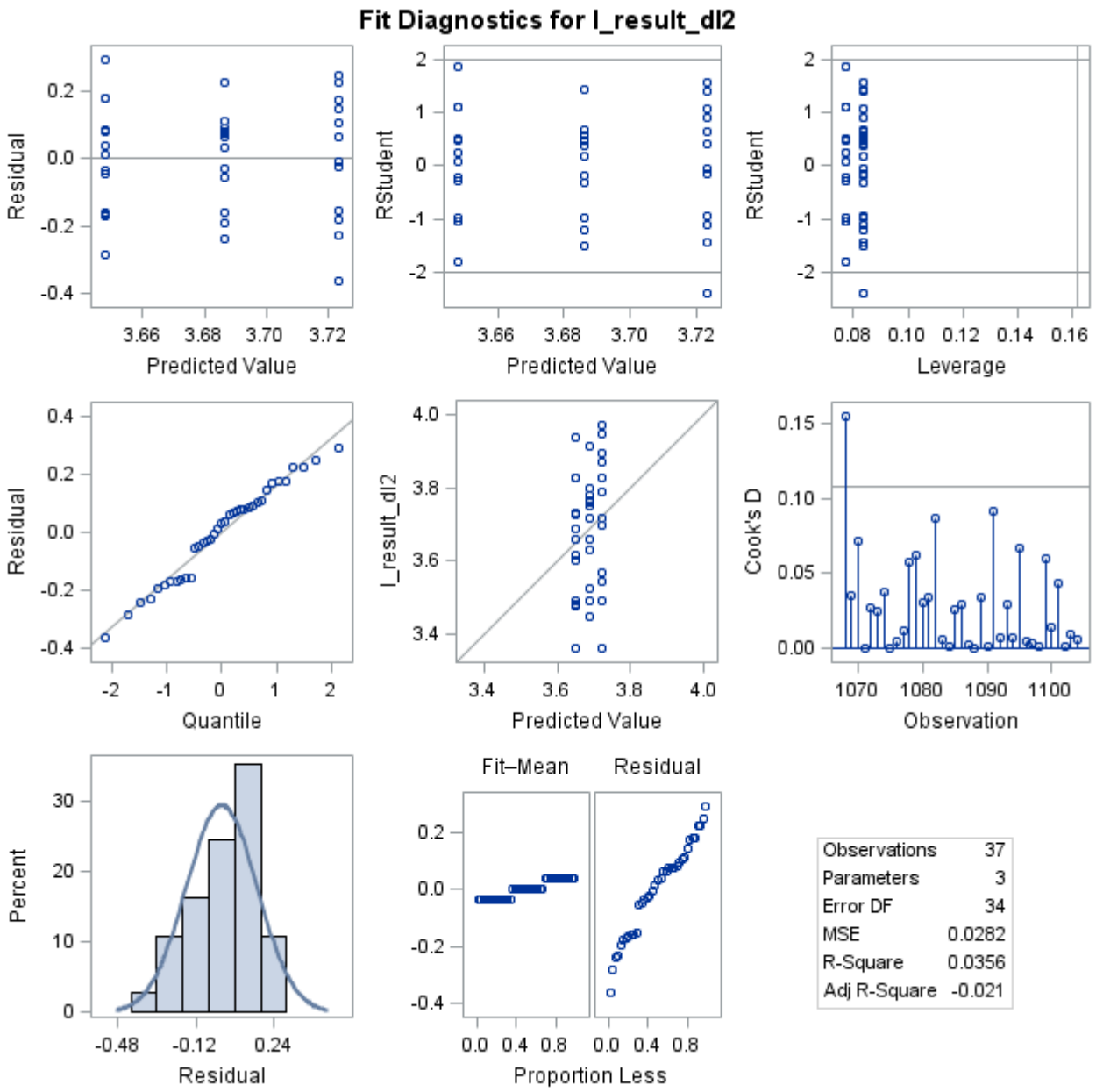
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.03533432	0.01766716	0.63	0.5403
Error	34	0.95823392	0.02818335		
Corrected Total	36	0.99356823			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.035563	4.556033	0.167879	3.684762

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.03533432	0.01766716	0.63	0.5403

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.03533432	0.01766716	0.63	0.5403


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 3
Error DF 34
MSE 0.0282
R-Square 0.0356
Adj R-Square -0.021

Metals Zinc
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00177	0.000883	1.03	0.3673
Error	34	0.0291	0.000856		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.53	0.5946
Error	22.2209		

Metals Zinc
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**12**	3.72316842	0.19478782
Southeast	**13**	3.64795903	0.16556672
Southwest	**12**	3.68622589	0.13880025

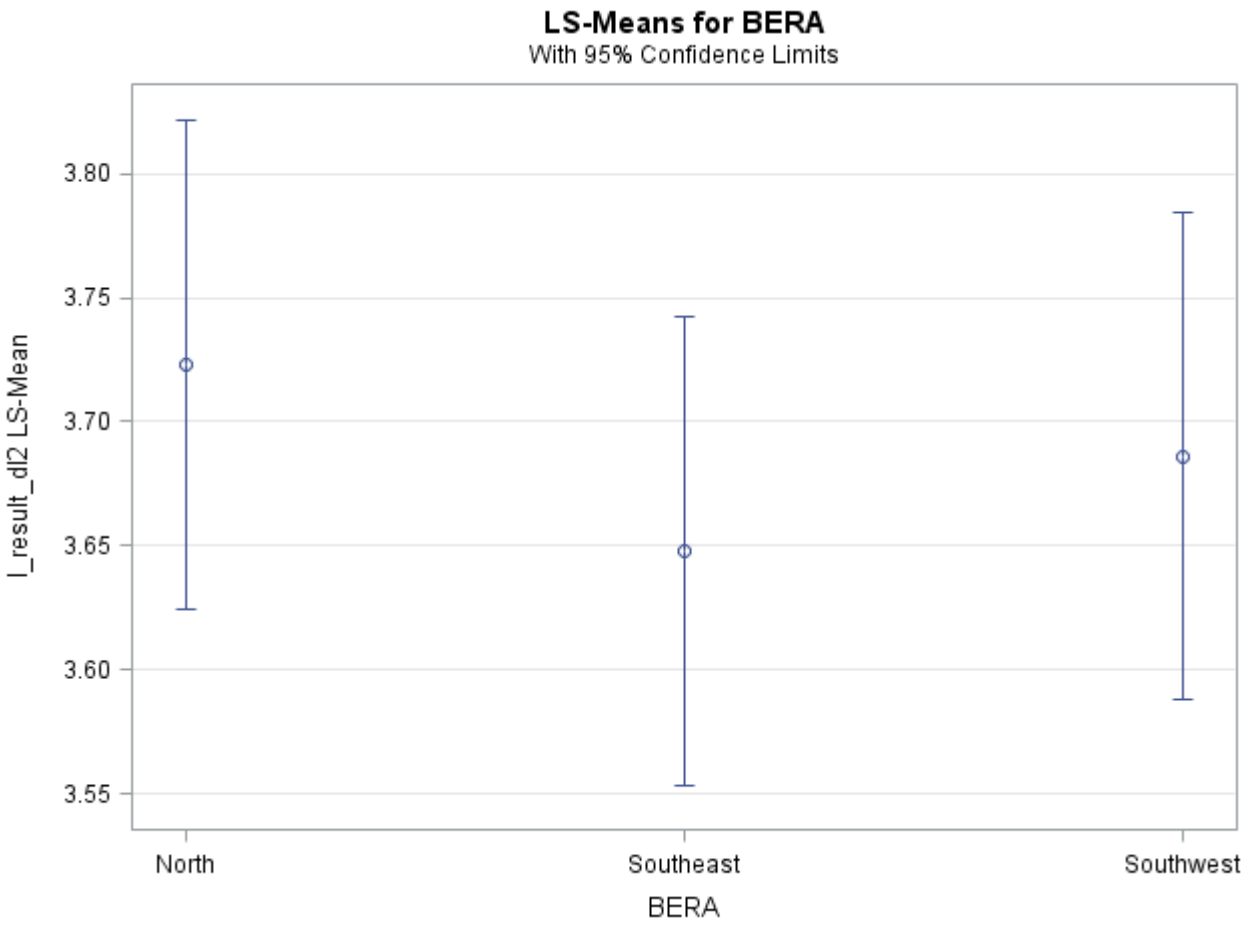
Metals Zinc
NBSA Whole Body Blue Crab ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.72316842	1
Southeast	3.64795903	2
Southwest	3.68622589	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5091	0.8527
2	0.5091		0.8372
3	0.8527	0.8372	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.80
3.75
3.70
3.65
3.60
3.55
North
Southeast
Southwest
BERA

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

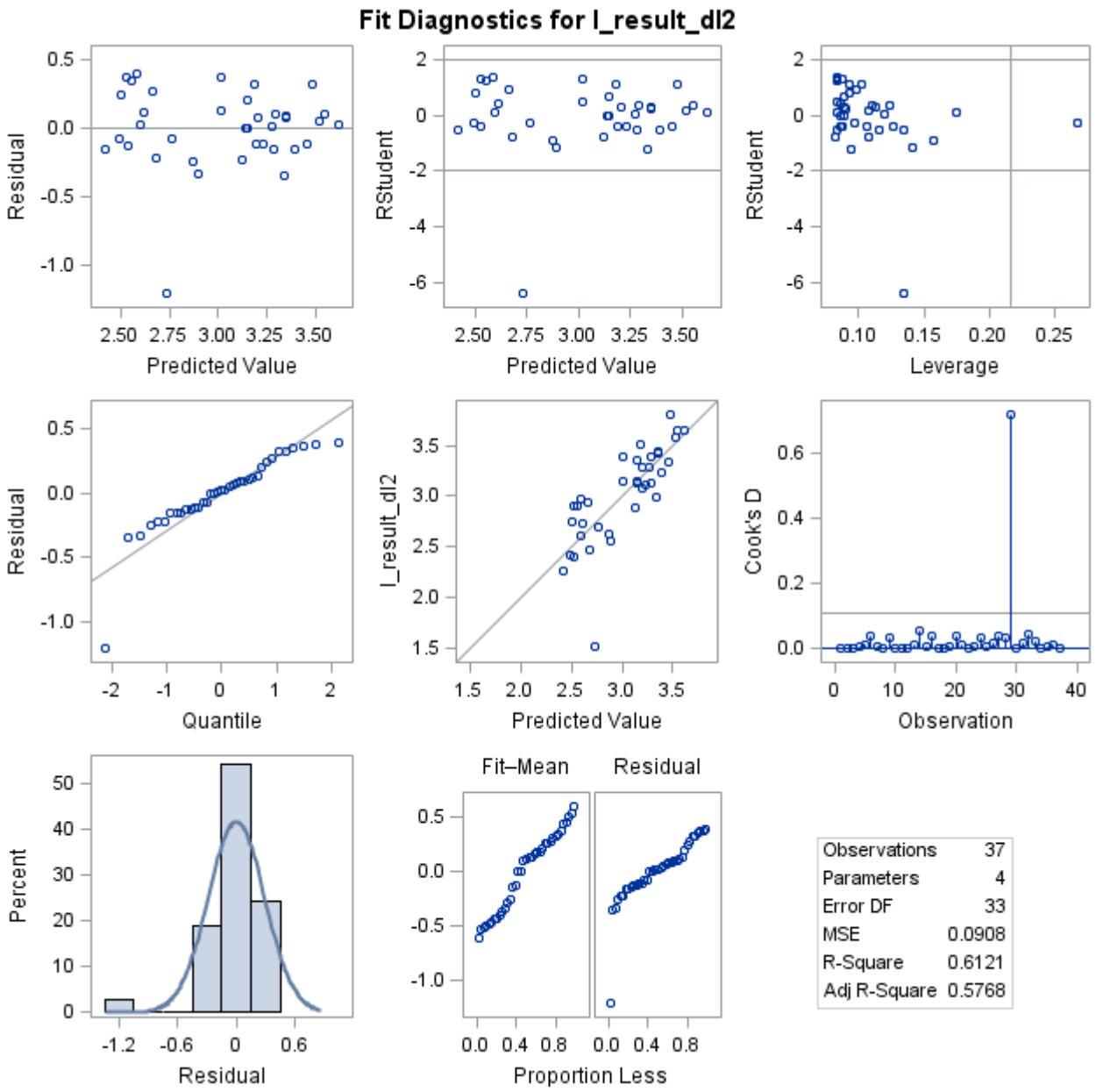
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.72887492	1.57629164	17.35	<.0001
Error	33	2.99732325	0.09082798		
Corrected Total	36	7.72619817			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.612057	9.977461	0.301377	3.020576

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.41220704	1.41220704	15.55	0.0004
BERA	2	3.31666788	1.65833394	18.26	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.49194866	0.49194866	5.42	0.0262
BERA	2	3.31666788	1.65833394	18.26	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.0908
R-Square 0.6121
Adj R-Square 0.5768

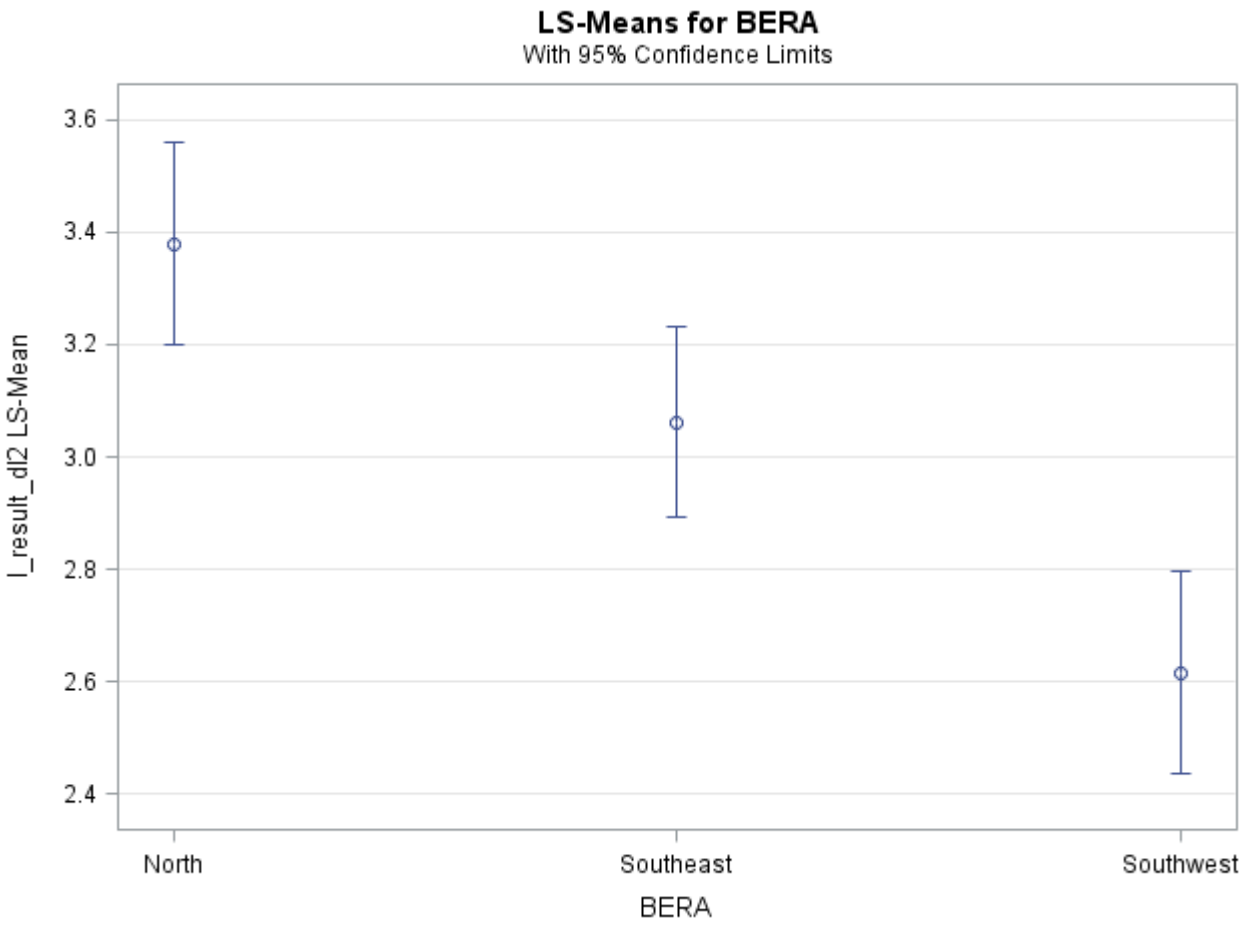
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.37983725	1
Southeast	3.06207337	2
Southwest	2.61635923	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0337	<.0001
2	0.0337		0.0026
3	<.0001	0.0026	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.6
3.4
3.2
3.0
2.8
2.6
2.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

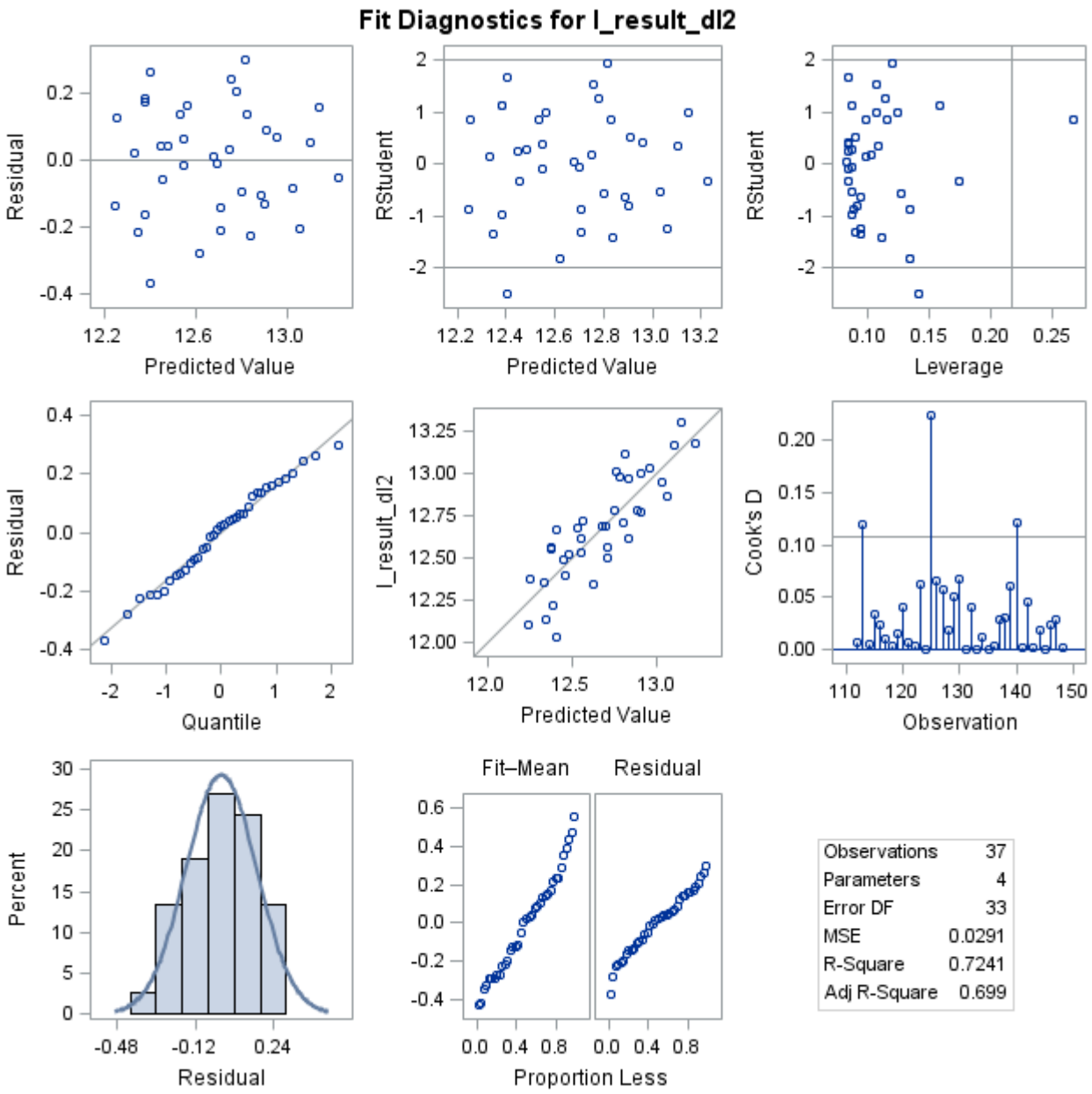
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.52394053	0.84131351	28.86	<.0001
Error	33	0.96191595	0.02914897		
Corrected Total	36	3.48585648			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.724052	1.347098	0.170731	12.67396

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.23207503	1.23207503	42.27	<.0001
BERA	2	1.29186550	0.64593275	22.16	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.69140160	0.69140160	23.72	<.0001
BERA	2	1.29186550	0.64593275	22.16	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.0291
R-Square 0.7241
Adj R-Square 0.699

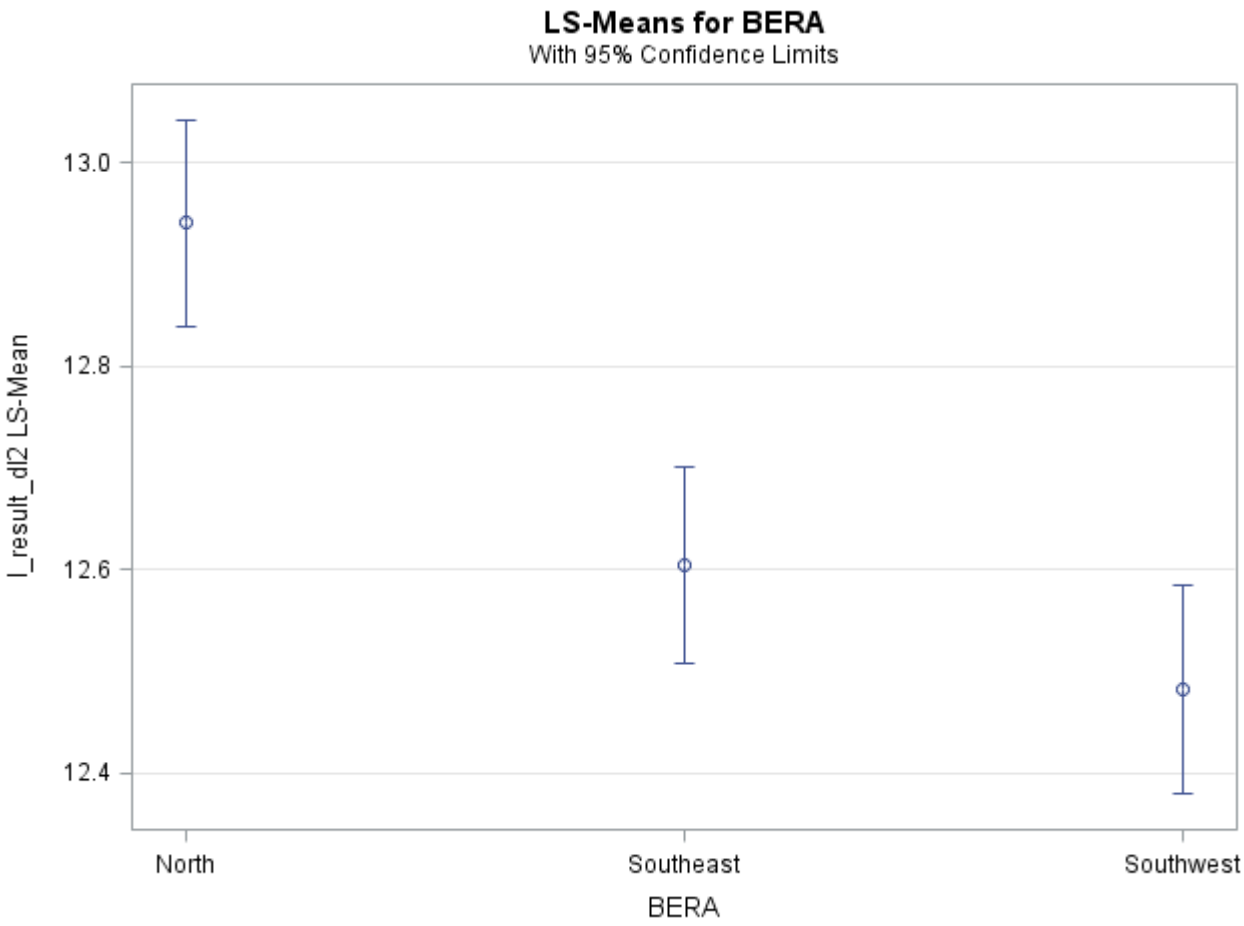
PCBs Total PCBs congener (209 specified)
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.9404227	1
Southeast	12.6049556	2
Southwest	12.4822519	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		<.0001	<.0001
2	<.0001		0.1969
3	<.0001	0.1969	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.8
12.6
12.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 36

Number of Observations Used 36

Pesticides Dieldrin
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

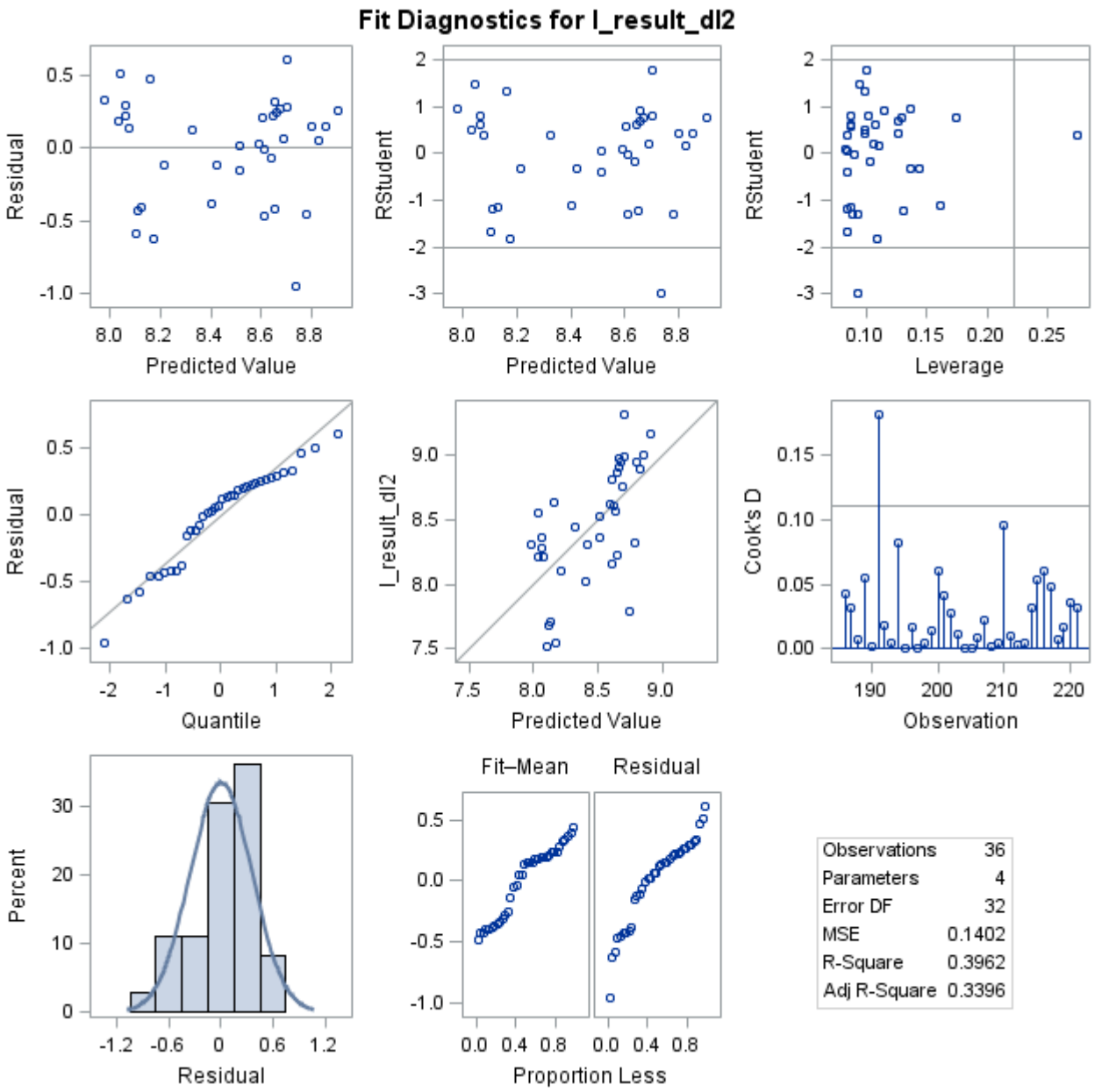
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.94448765	0.98149588	7.00	0.0009
Error	32	4.48649118	0.14020285		
Corrected Total	35	7.43097883			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.396245	4.424304	0.374437	8.463177

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.91666181	0.91666181	6.54	0.0155
BERA	2	2.02782584	1.01391292	7.23	0.0026

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.26647042	0.26647042	1.90	0.1776
BERA	2	2.02782584	1.01391292	7.23	0.0026


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 36
Parameters 4
Error DF 32
MSE 0.1402
R-Square 0.3962
Adj R-Square 0.3396

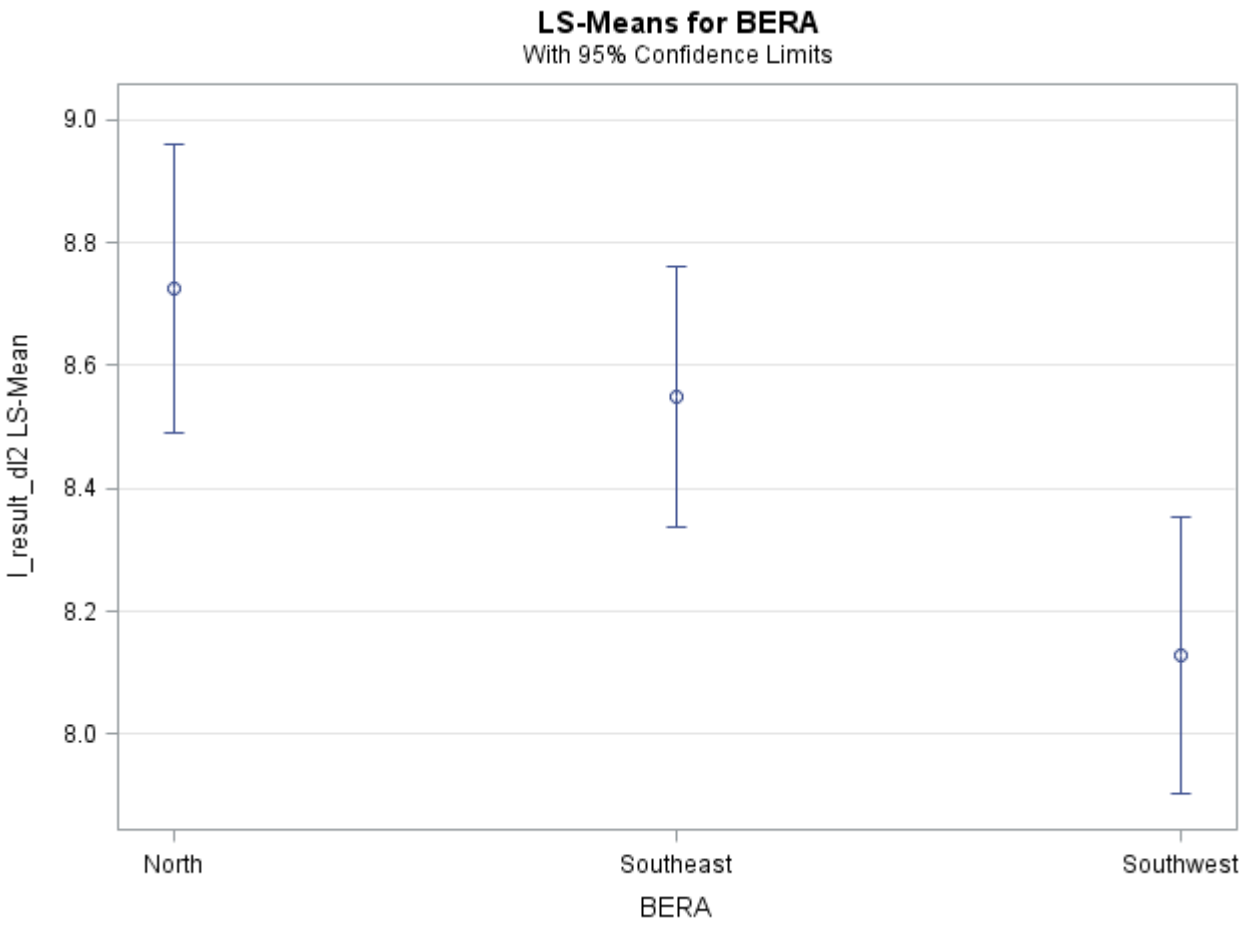
Pesticides Dieldrin
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.72625286	1
Southeast	8.54961607	2
Southwest	8.12838286	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4945	0.0024
2	0.4945		0.0249
3	0.0024	0.0249	


LS-Means for BERA
With 95% Confidence Limits
9.0
8.8
8.6
8.4
8.2
8.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Heptachlor epoxide
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

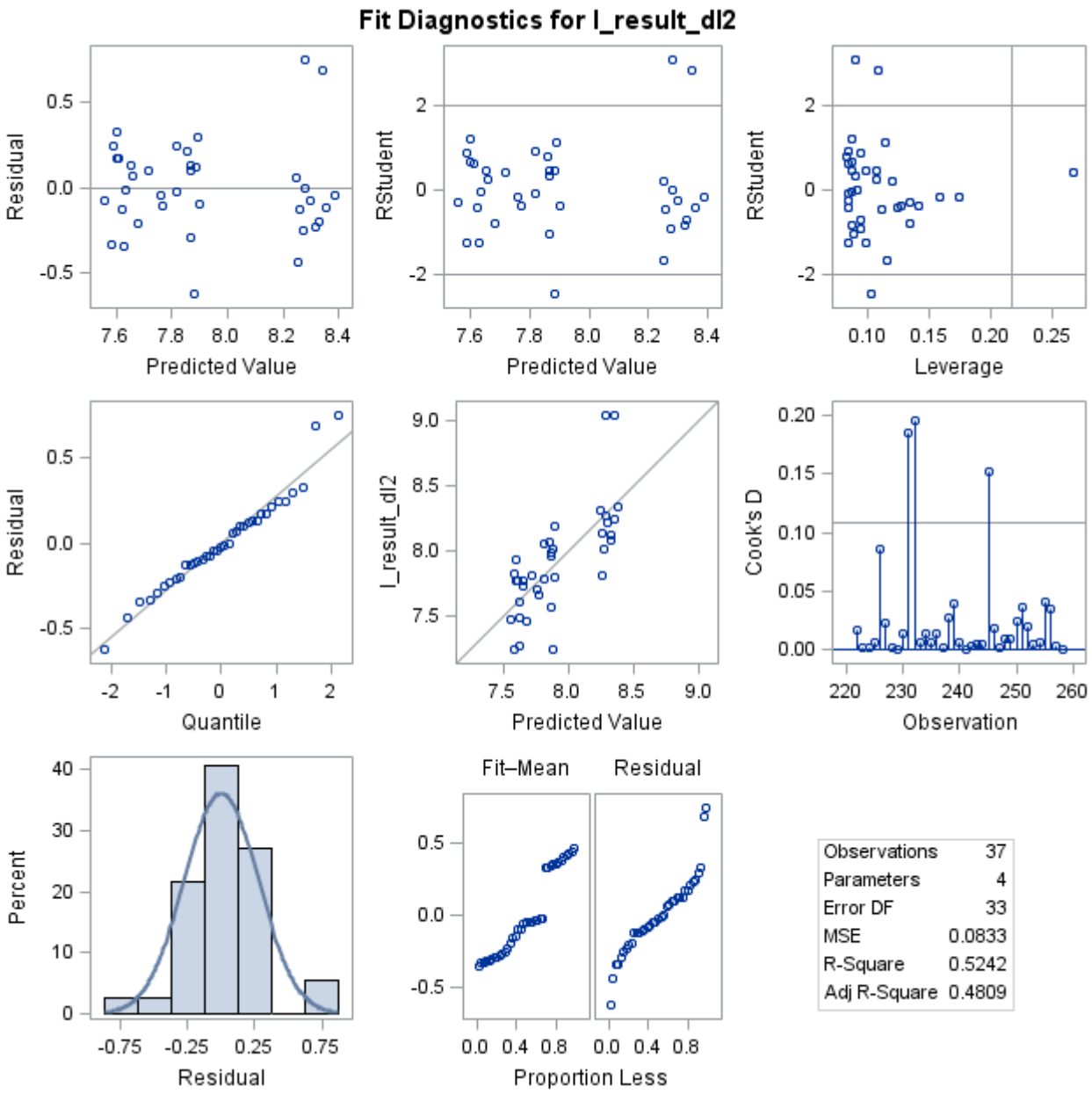
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.03033493	1.01011164	12.12	<.0001
Error	33	2.75053807	0.08334964		
Corrected Total	36	5.78087300			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.524200	3.646872	0.288703	7.916465

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.42073696	0.42073696	5.05	0.0315
BERA	2	2.60959798	1.30479899	15.65	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.07506390	0.07506390	0.90	0.3495
BERA	2	2.60959798	1.30479899	15.65	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.0833
R-Square 0.5242
Adj R-Square 0.4809

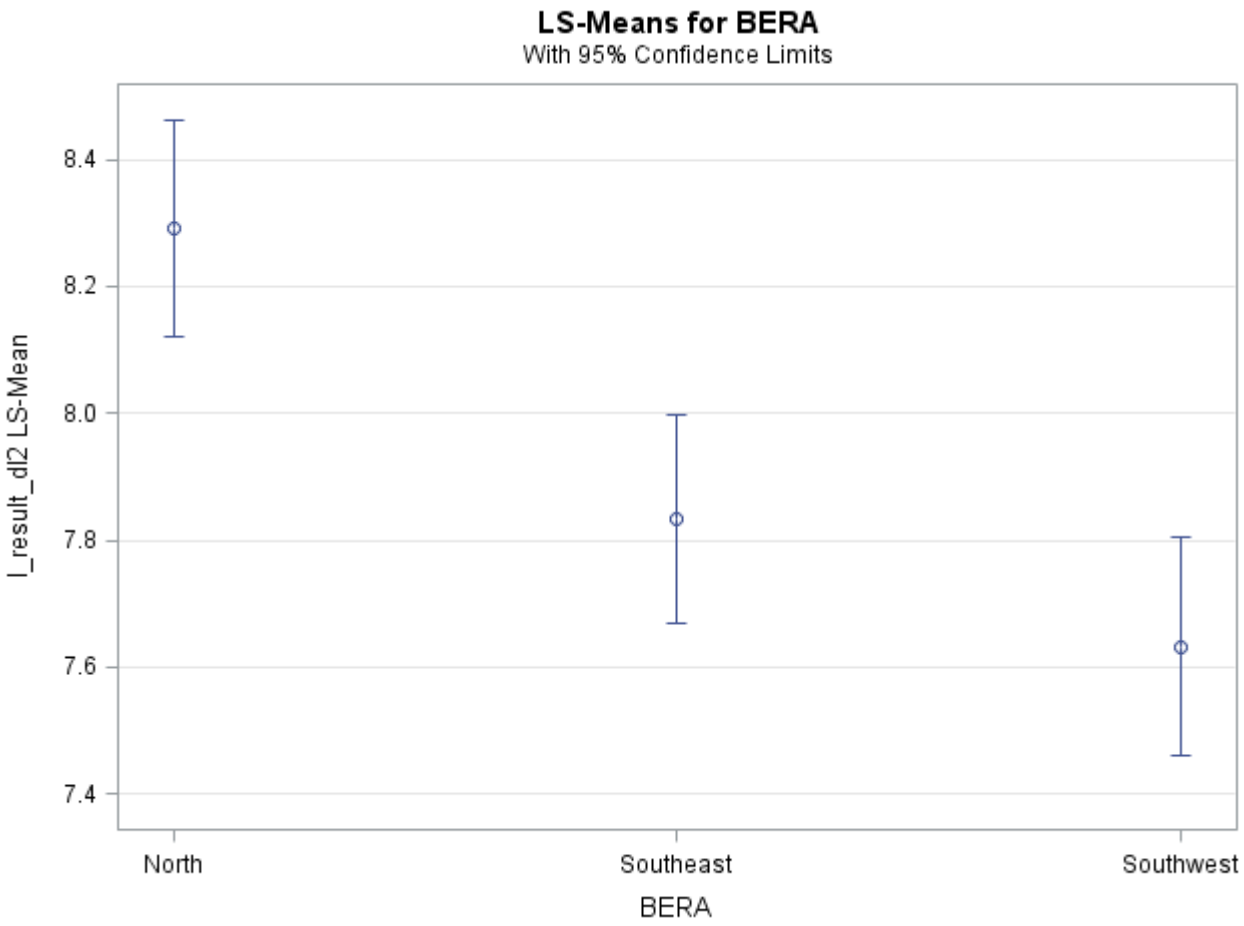
Pesticides Heptachlor epoxide
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.29106899	1
Southeast	7.83293872	2
Southwest	7.63234715	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0011	<.0001
2	0.0011		0.2178
3	<.0001	0.2178	


LS-Means for BERA
With 95% Confidence Limits
8.4
8.2
8.0
7.8
7.6
7.4
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Hexachlorobenzene
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

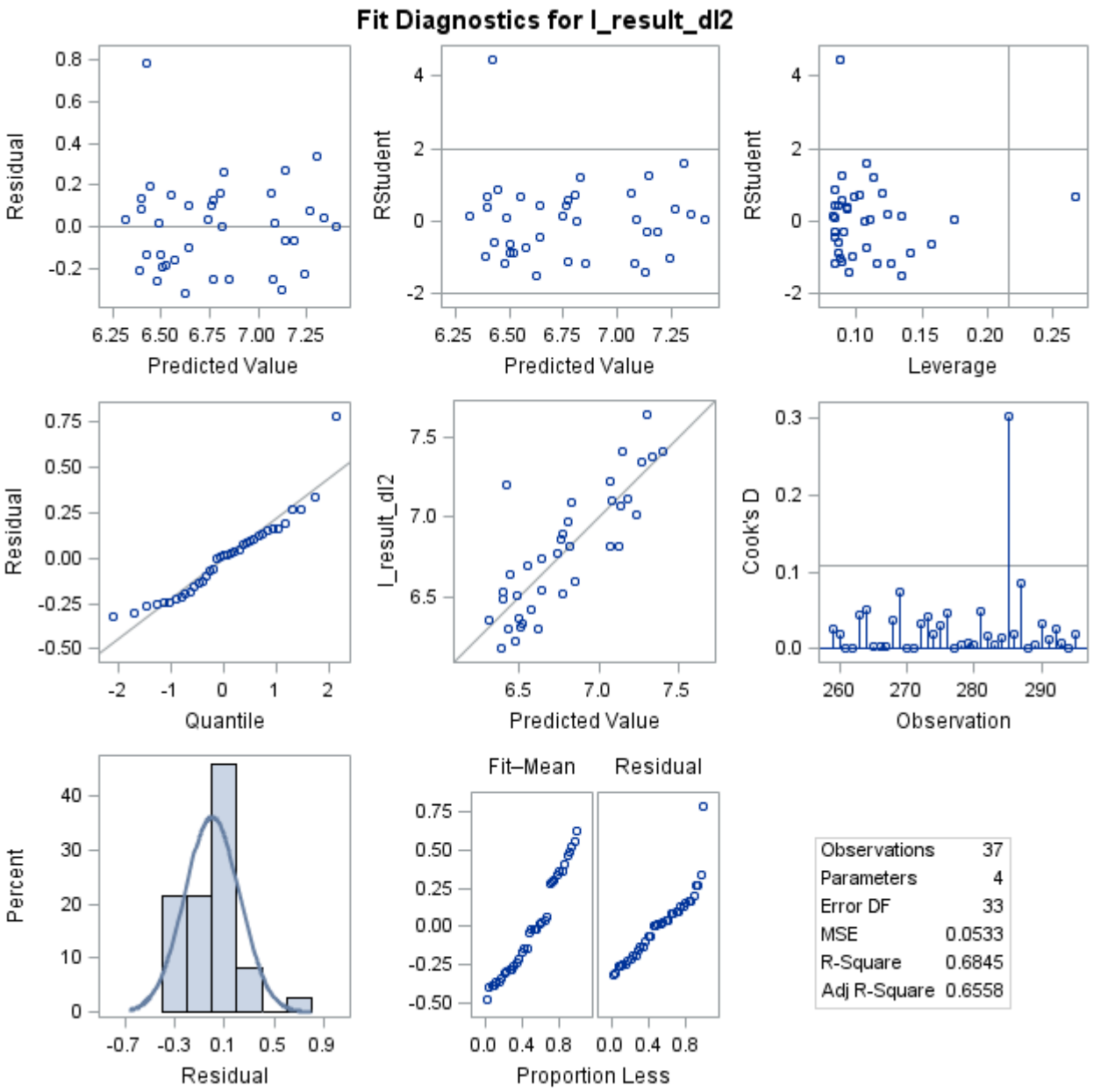
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.81556457	1.27185486	23.87	<.0001
Error	33	1.75863254	0.05329190		
Corrected Total	36	5.57419711			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.684505	3.402831	0.230850	6.784067

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.14023448	1.14023448	21.40	<.0001
BERA	2	2.67533009	1.33766505	25.10	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.46782681	0.46782681	8.78	0.0056
BERA	2	2.67533009	1.33766505	25.10	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.0533
R-Square 0.6845
Adj R-Square 0.6558

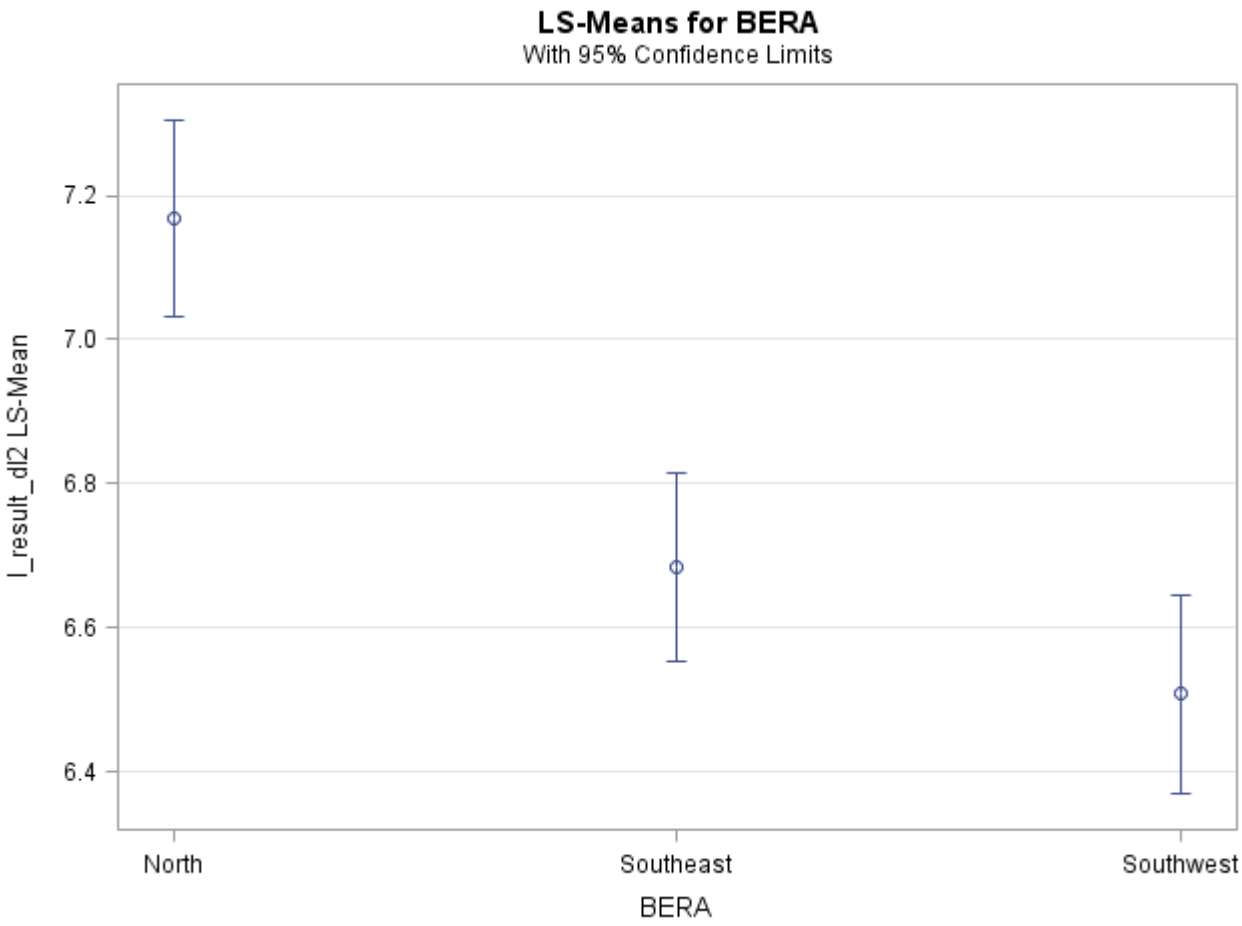
Pesticides Hexachlorobenzene
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.16755783	1
Southeast	6.68463744	2
Southwest	6.50829267	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		<.0001	<.0001
2	<.0001		0.1615
3	<.0001	0.1615	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
7.2
7.0
6.8
6.6
6.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

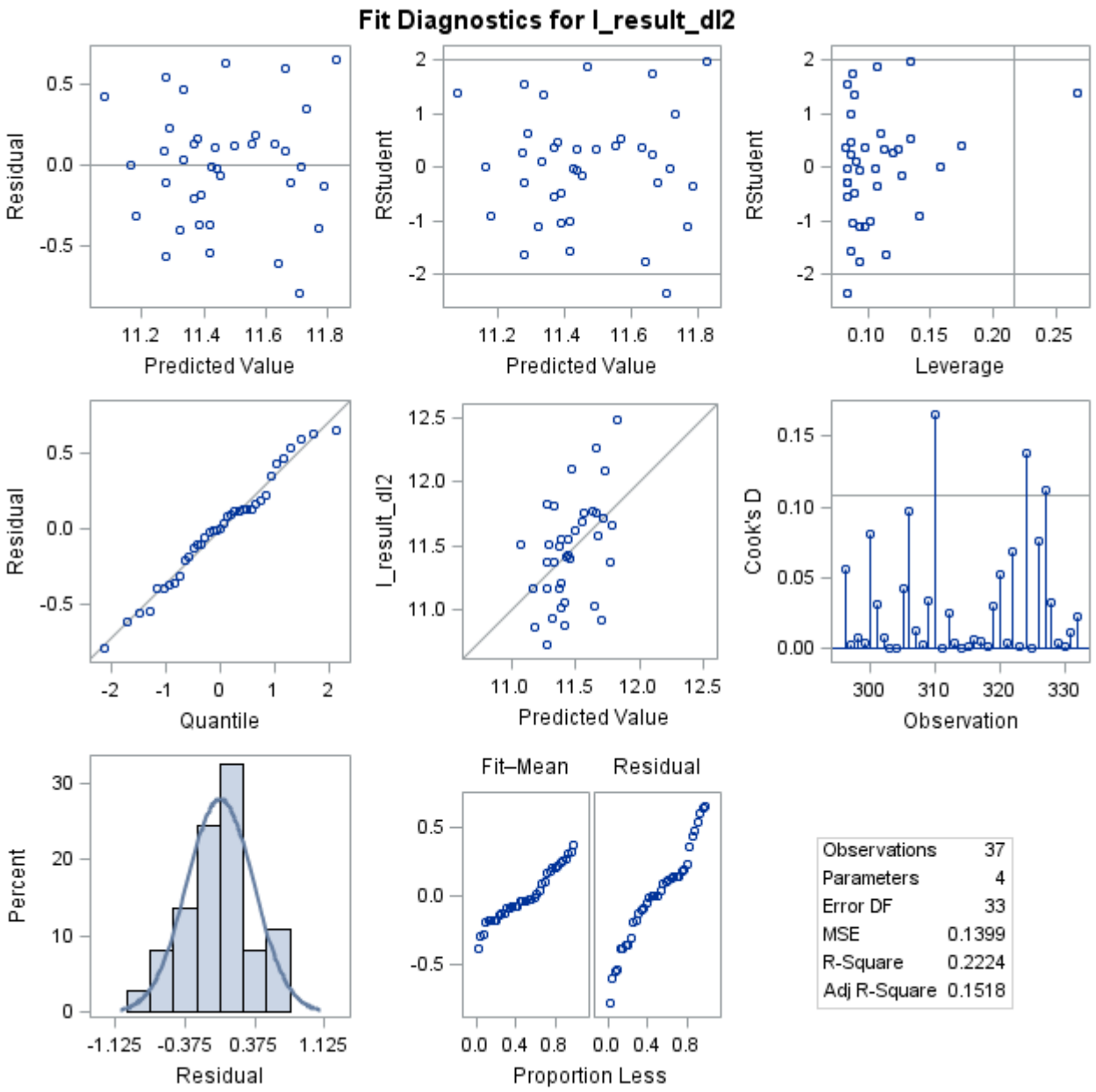
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.32117712	0.44039237	3.15	0.0380
Error	33	4.61831474	0.13994893		
Corrected Total	36	5.93949186			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.222439	3.262897	0.374097	11.46520

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.10601574	0.10601574	0.76	0.3904
BERA	2	1.21516138	0.60758069	4.34	0.0212

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.32733362	0.32733362	2.34	0.1357
BERA	2	1.21516138	0.60758069	4.34	0.0212


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.1399
R-Square 0.2224
Adj R-Square 0.1518

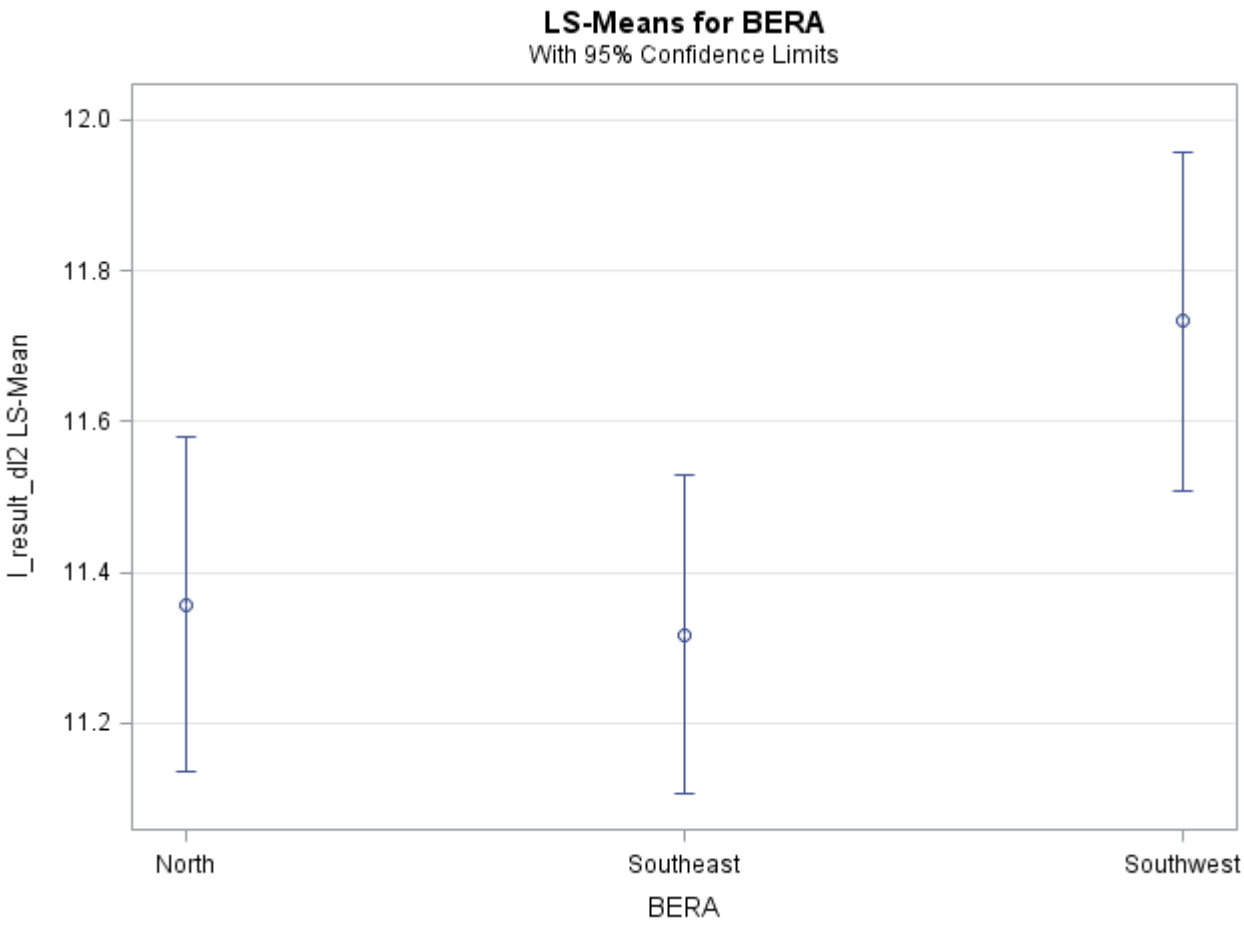
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.3574010	1
Southeast	11.3173193	2
Southwest	11.7331888	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9615	0.0579
2	0.9615		0.0265
3	0.0579	0.0265	


LS-Means for BERA
With 95% Confidence Limits
12.0
11.8
11.6
11.4
11.2
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

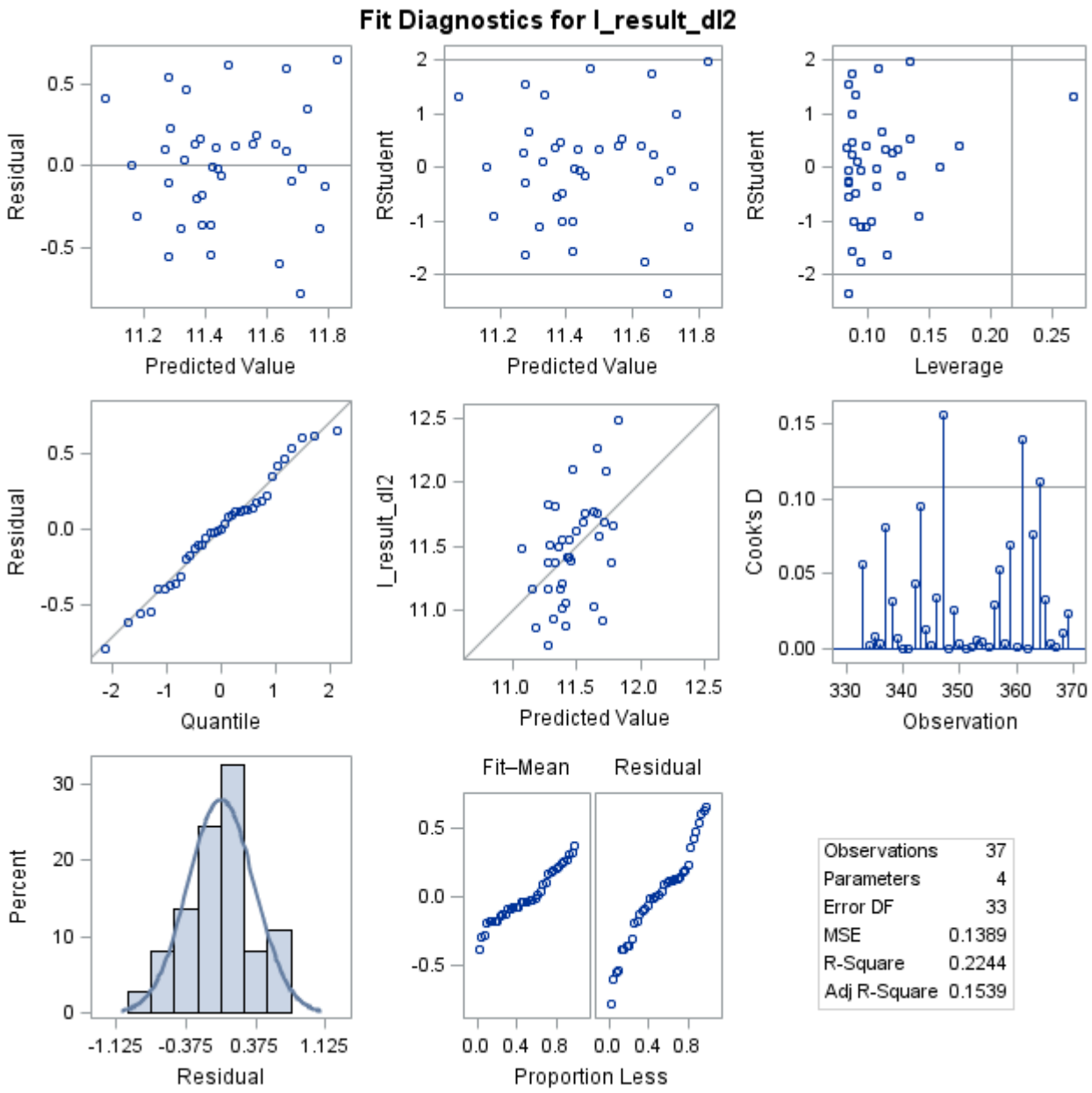
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.32687634	0.44229211	3.18	0.0366
Error	33	4.58482718	0.13893416		
Corrected Total	36	5.91170351			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.224449	3.251514	0.372739	11.46354

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.11097709	0.11097709	0.80	0.3779
BERA	2	1.21589925	0.60794962	4.38	0.0206

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.33569435	0.33569435	2.42	0.1296
BERA	2	1.21589925	0.60794962	4.38	0.0206


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.1389
R-Square 0.2244
Adj R-Square 0.1539

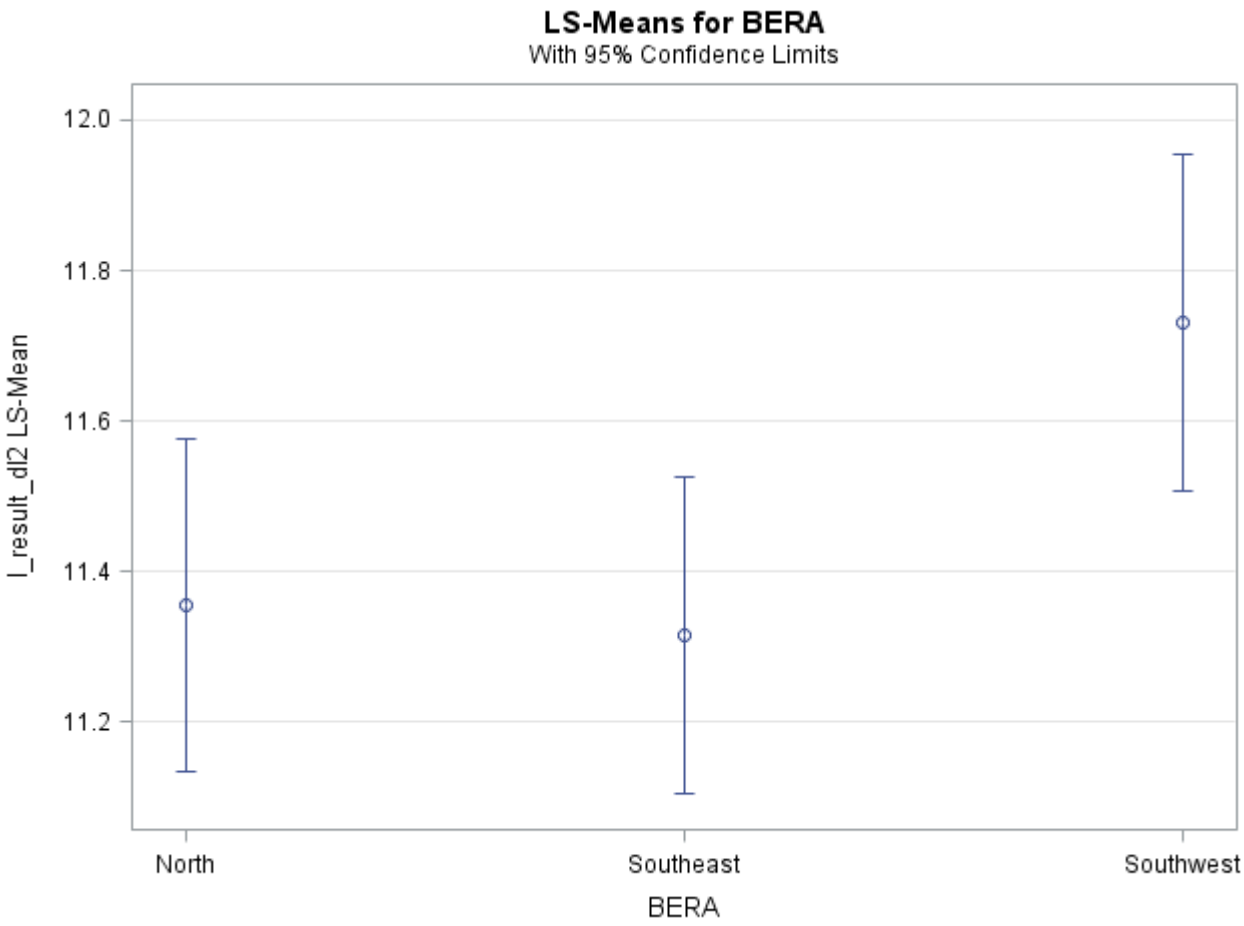
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.3559812	1
Southeast	11.3154071	2
Southwest	11.7315865	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9603	0.0569
2	0.9603		0.0258
3	0.0569	0.0258	


LS-Means for BERA
With 95% Confidence Limits
12.0
11.8
11.6
11.4
11.2
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

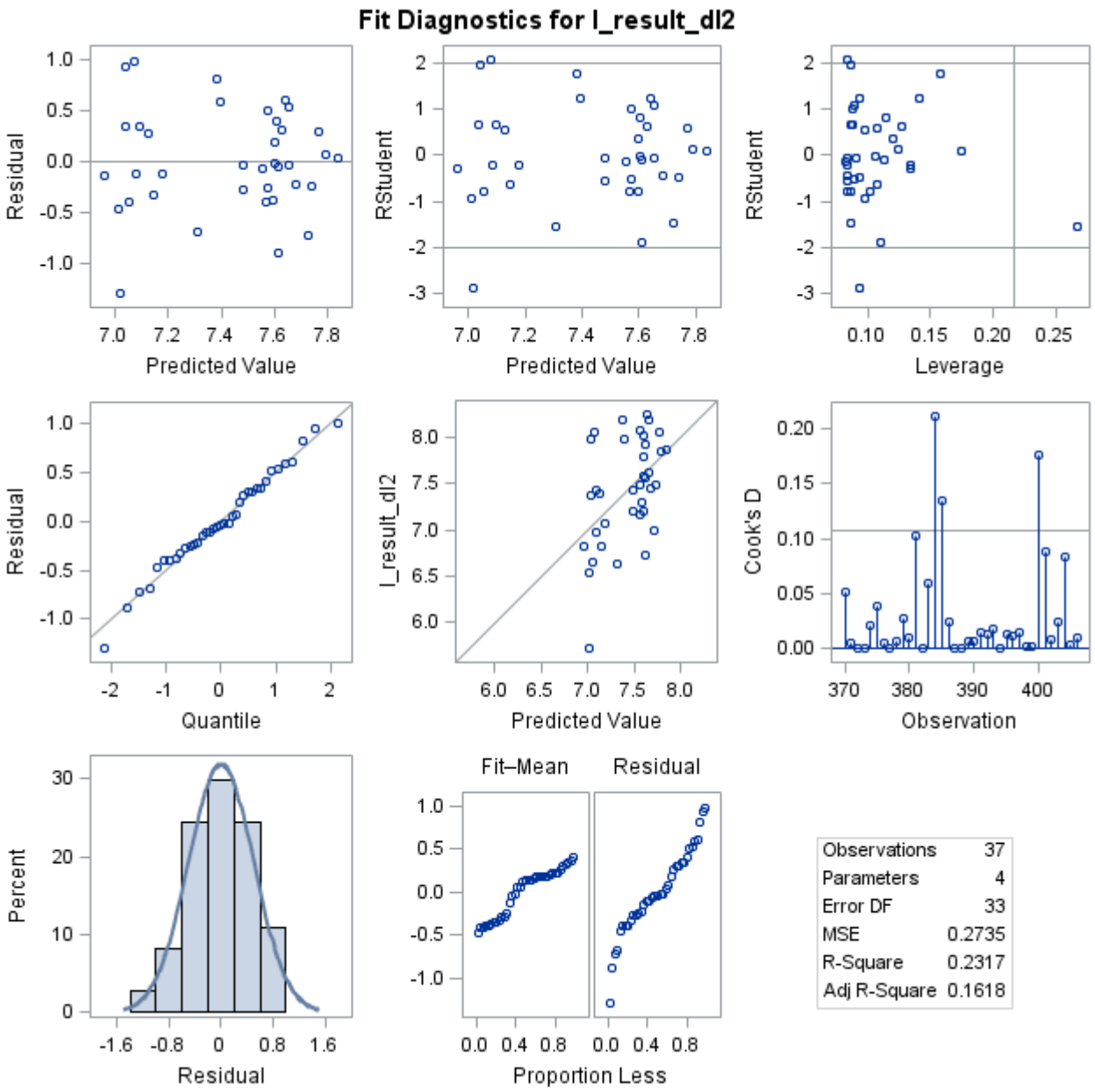
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.72130115	0.90710038	3.32	0.0317
Error	33	9.02466847	0.27347480		
Corrected Total	36	11.74596962			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.231680	7.039094	0.522948	7.429198

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.74382706	0.74382706	2.72	0.1086
BERA	2	1.97747409	0.98873705	3.62	0.0380

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.23351030	0.23351030	0.85	0.3622
BERA	2	1.97747409	0.98873705	3.62	0.0380


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.2735
R-Square 0.2317
Adj R-Square 0.1618

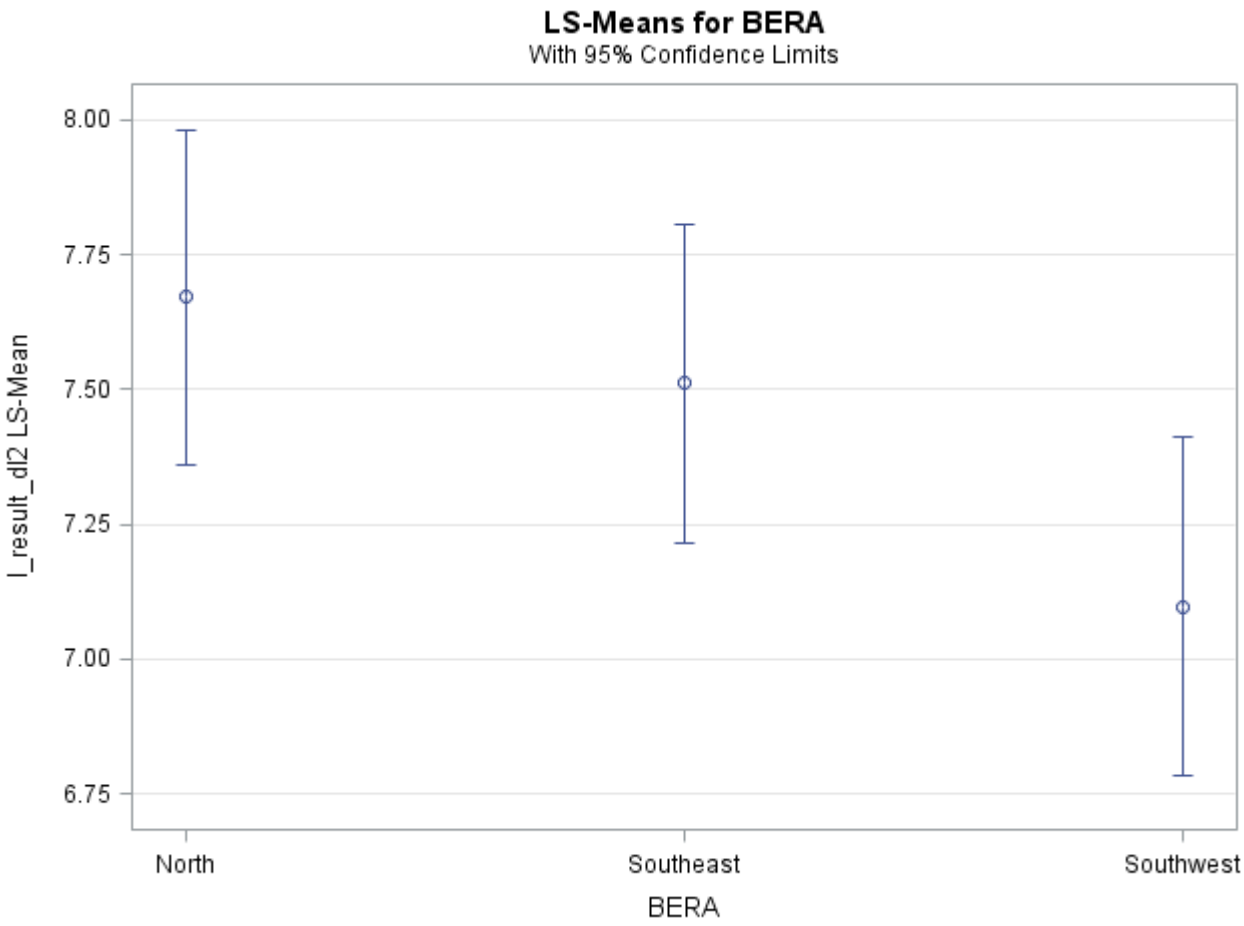
Pesticides Total alpha + gamma chlordane
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.67138159	1
Southeast	7.51151205	2
Southwest	7.09783937	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7287	0.0354
2	0.7287		0.1427
3	0.0354	0.1427	


LS-Means for BERA
With 95% Confidence Limits
8.00
7.75
7.50
7.25
7.00
6.75
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 35

Number of Observations Used 35

Pesticides alpha-BHC
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

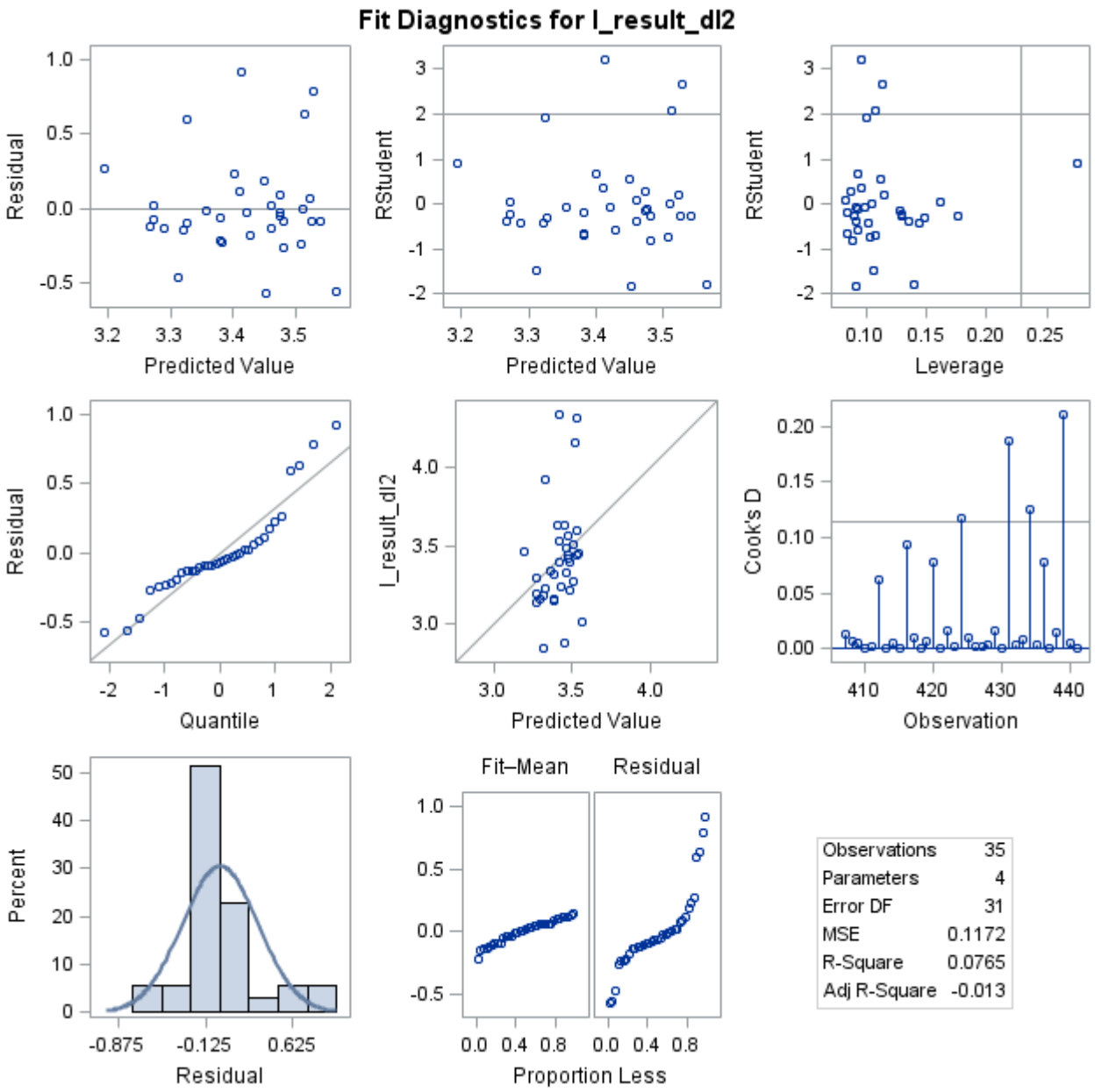
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.30103671	0.10034557	0.86	0.4741
Error	31	3.63354000	0.11721097		
Corrected Total	34	3.93457671			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.076511	10.01865	0.342361	3.417235

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.21013496	0.21013496	1.79	0.1903
BERA	2	0.09090175	0.04545088	0.39	0.6818

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.26878070	0.26878070	2.29	0.1401
BERA	2	0.09090175	0.04545088	0.39	0.6818


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 35
Parameters 4
Error DF 31
MSE 0.1172
R-Square 0.0765
Adj R-Square -0.013

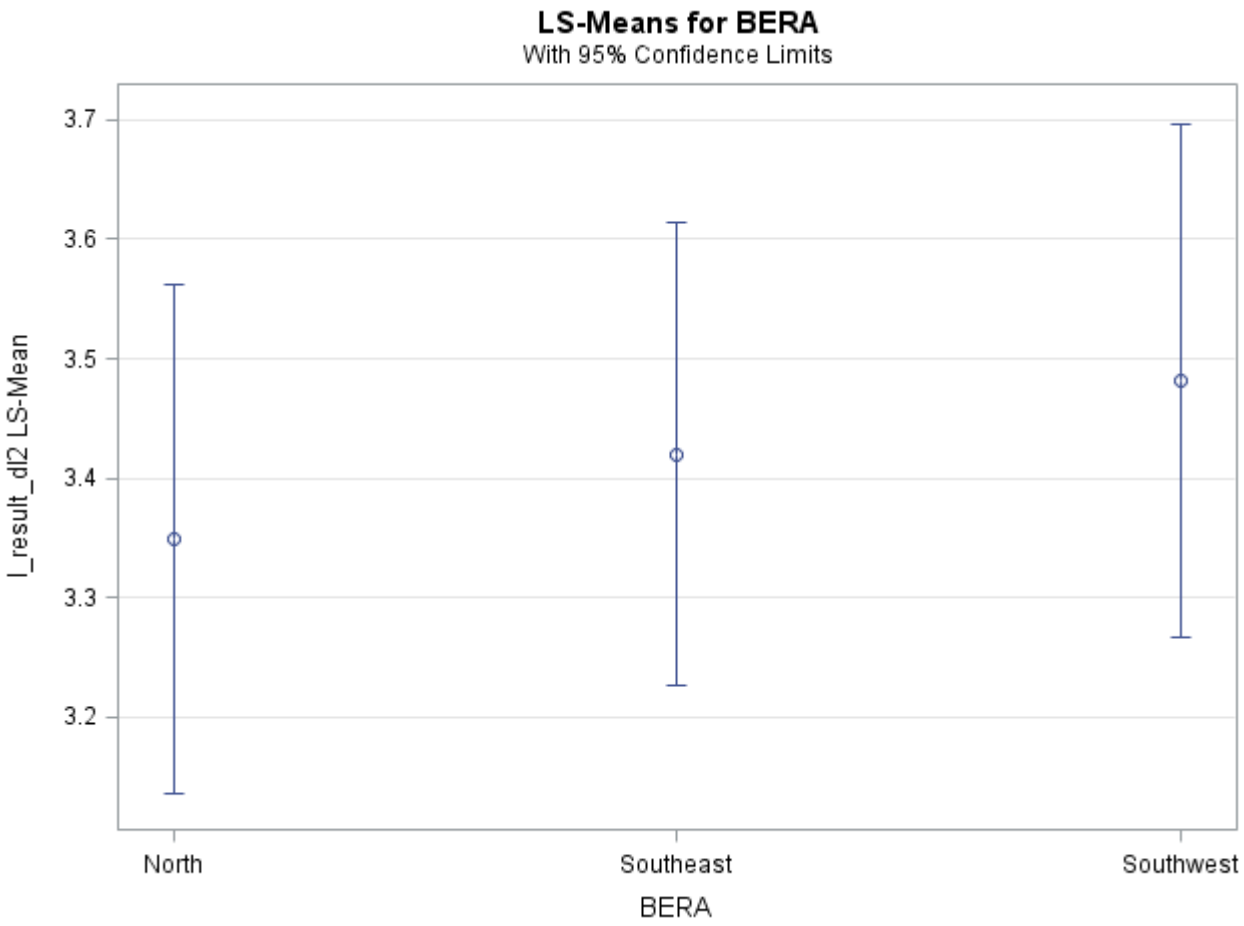
Pesticides alpha-BHC
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.34926100	1
Southeast	3.42006777	2
Southwest	3.48186204	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8709	0.6570
2	0.8709		0.9013
3	0.6570	0.9013	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.7
3.6
3.5
3.4
3.3
3.2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides beta-BHC
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

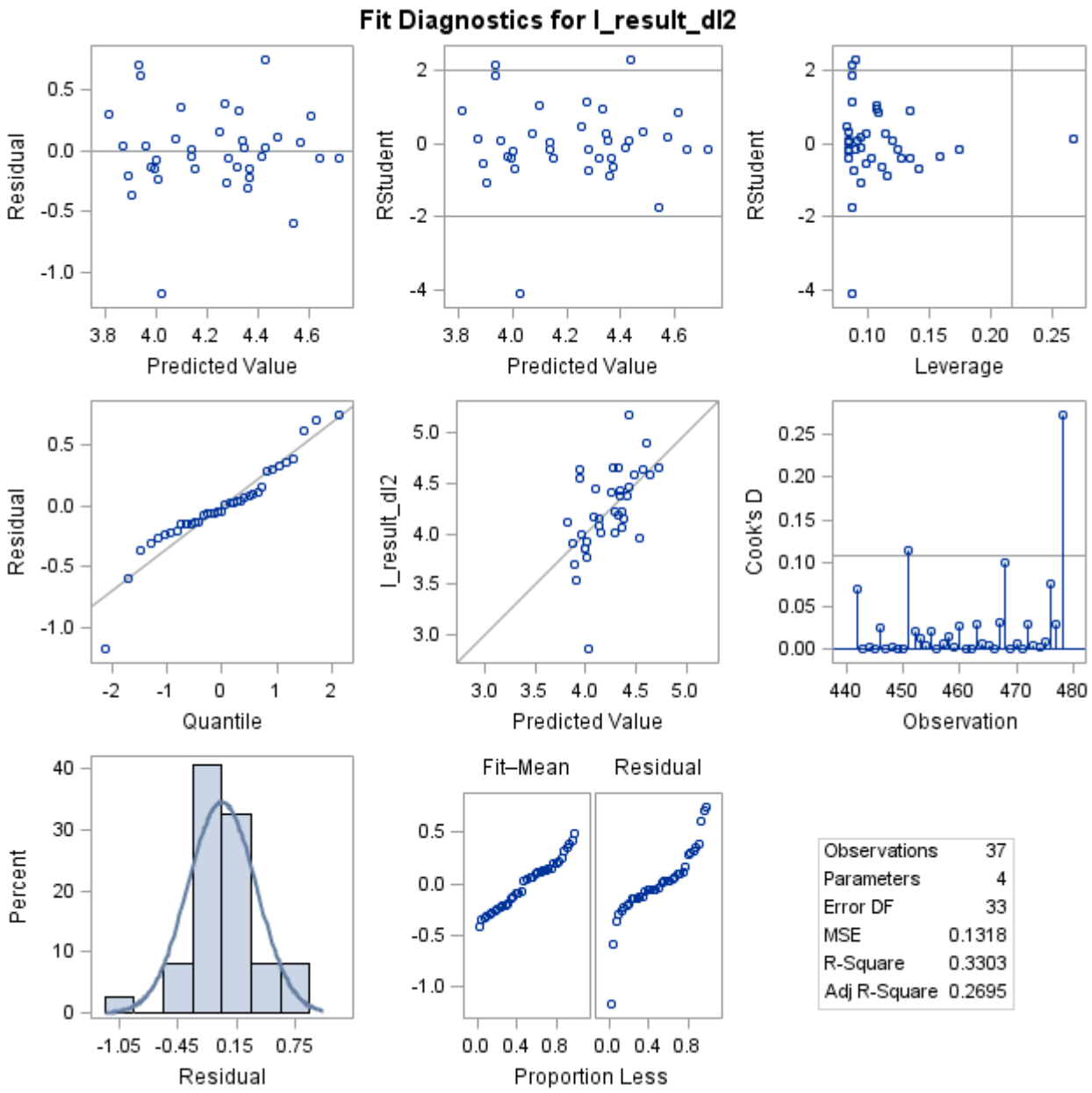
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.14484722	0.71494907	5.43	0.0038
Error	33	4.34800297	0.13175767		
Corrected Total	36	6.49285019			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.330340	8.592369	0.362984	4.224497

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.04941746	1.04941746	7.96	0.0080
BERA	2	1.09542976	0.54771488	4.16	0.0245

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.56771957	0.56771957	4.31	0.0458
BERA	2	1.09542976	0.54771488	4.16	0.0245


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.1318
R-Square 0.3303
Adj R-Square 0.2695

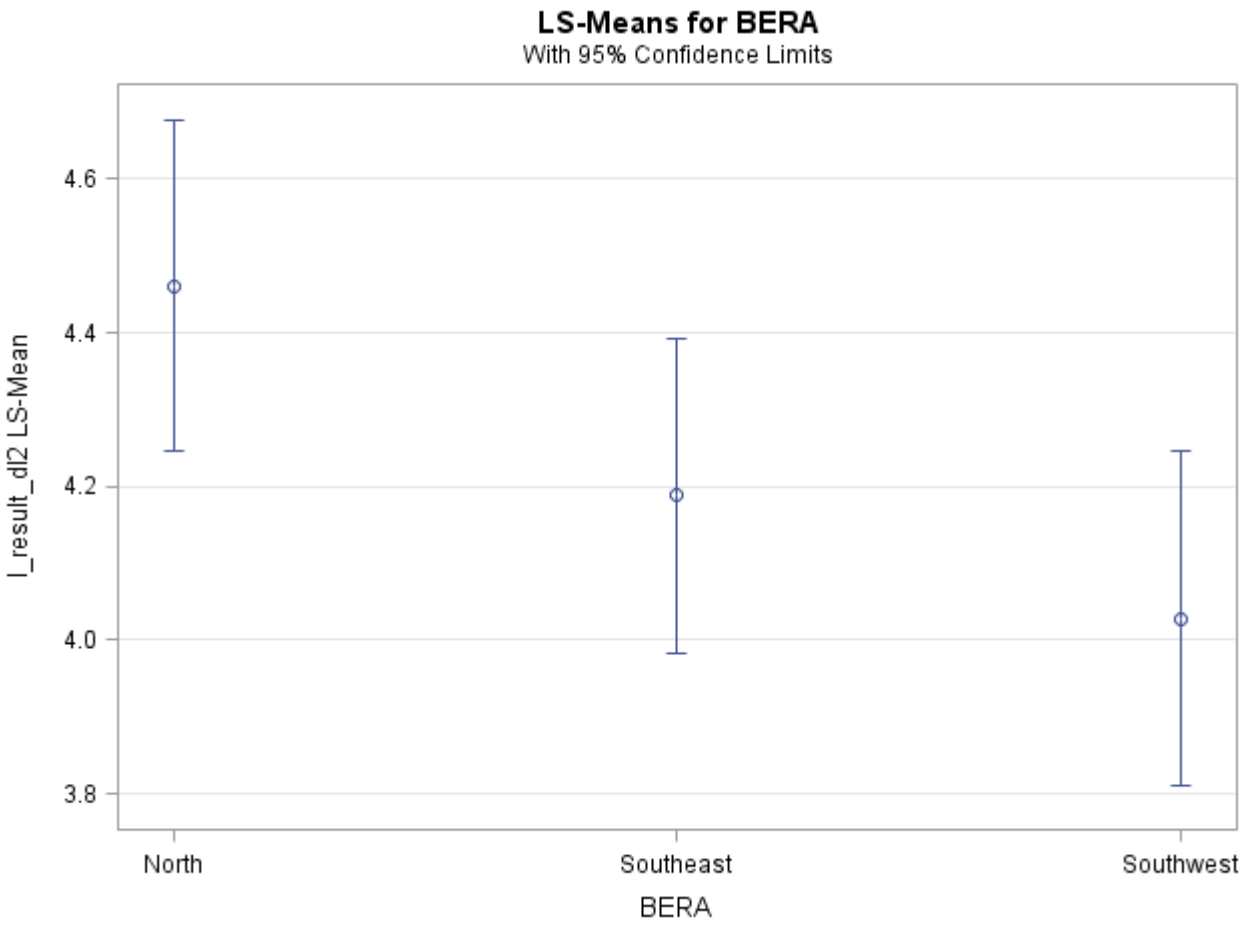
Pesticides beta-BHC
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.46120257	1
Southeast	4.18796987	2
Southwest	4.02736318	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1616	0.0204
2	0.1616		0.5288
3	0.0204	0.5288	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.6
4.4
4.2
4.0
3.8
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

Pesticides cis-Nonachlor
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

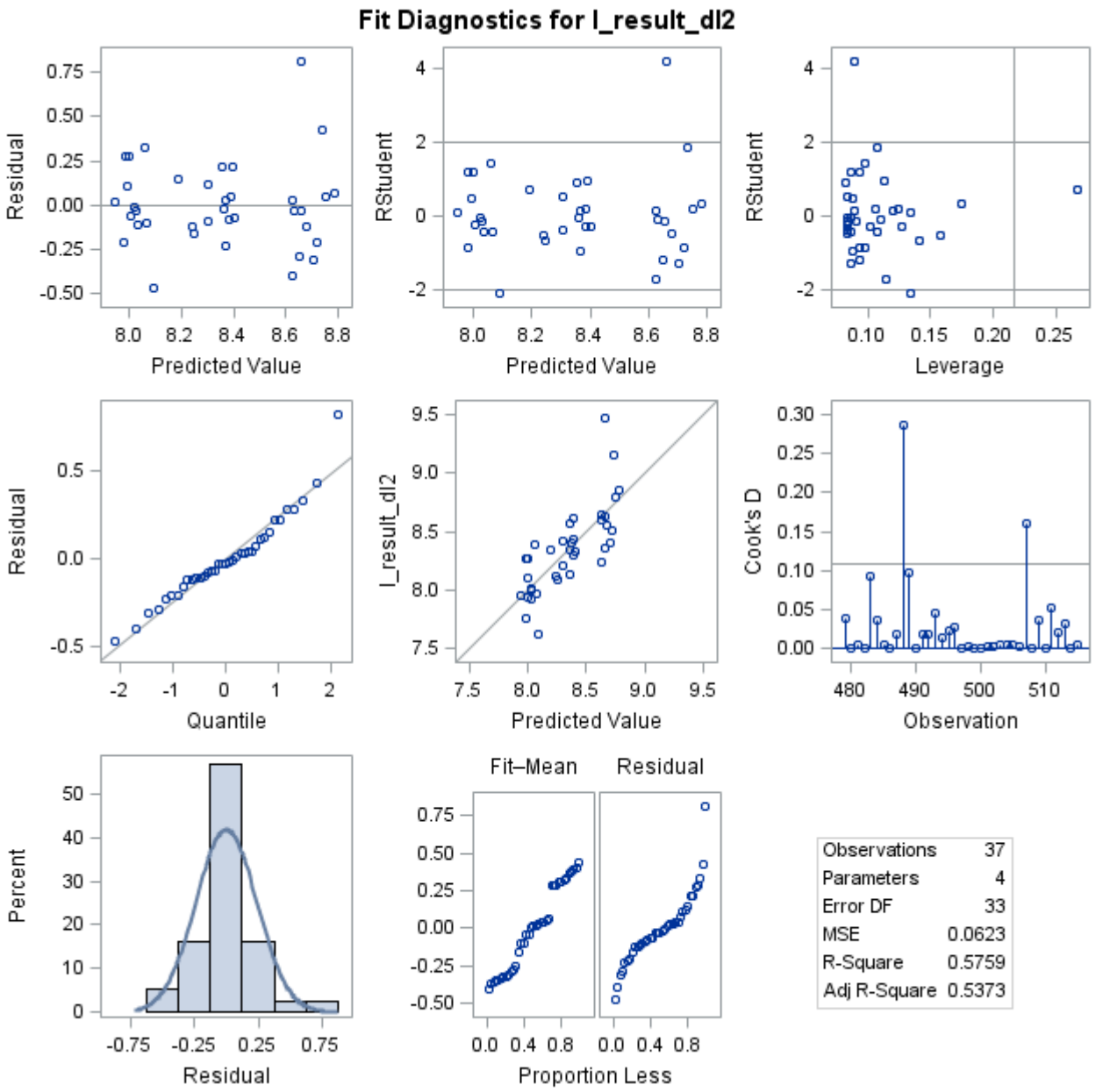
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.78993318	0.92997773	14.93	<.0001
Error	33	2.05488716	0.06226931		
Corrected Total	36	4.84482034			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.575859	2.990501	0.249538	8.344361

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.49810742	0.49810742	8.00	0.0079
BERA	2	2.29182576	1.14591288	18.40	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.10510811	0.10510811	1.69	0.2029
BERA	2	2.29182576	1.14591288	18.40	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.0623
R-Square 0.5759
Adj R-Square 0.5373

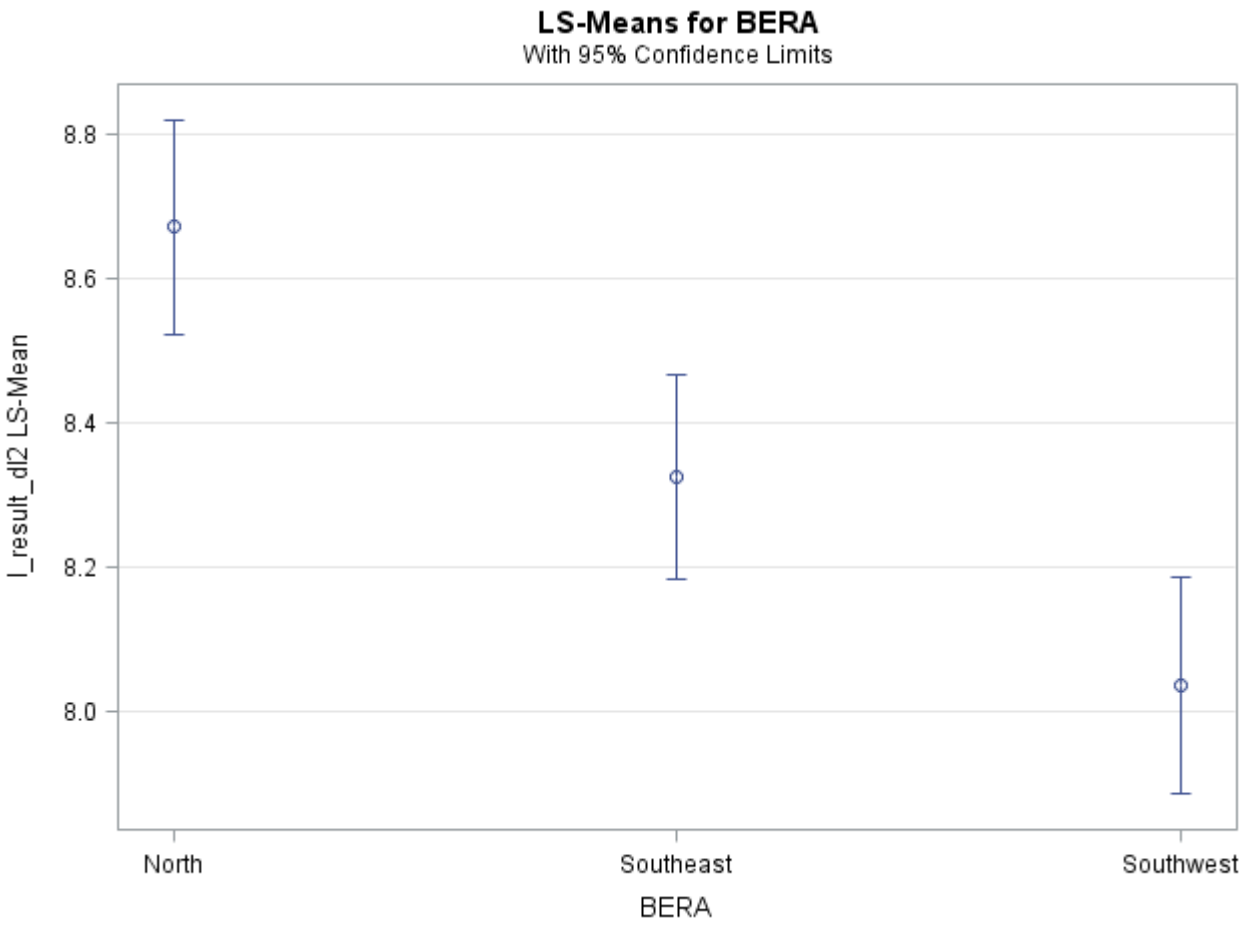
Pesticides cis-Nonachlor
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.67183512	1
Southeast	8.32638016	2
Southwest	8.03636624	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0043	<.0001
2	0.0043		0.0197
3	<.0001	0.0197	


LS-Means for BERA
With 95% Confidence Limits
8.8
8.6
8.4
8.2
8.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PAHs Total Alkylated PAHs
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

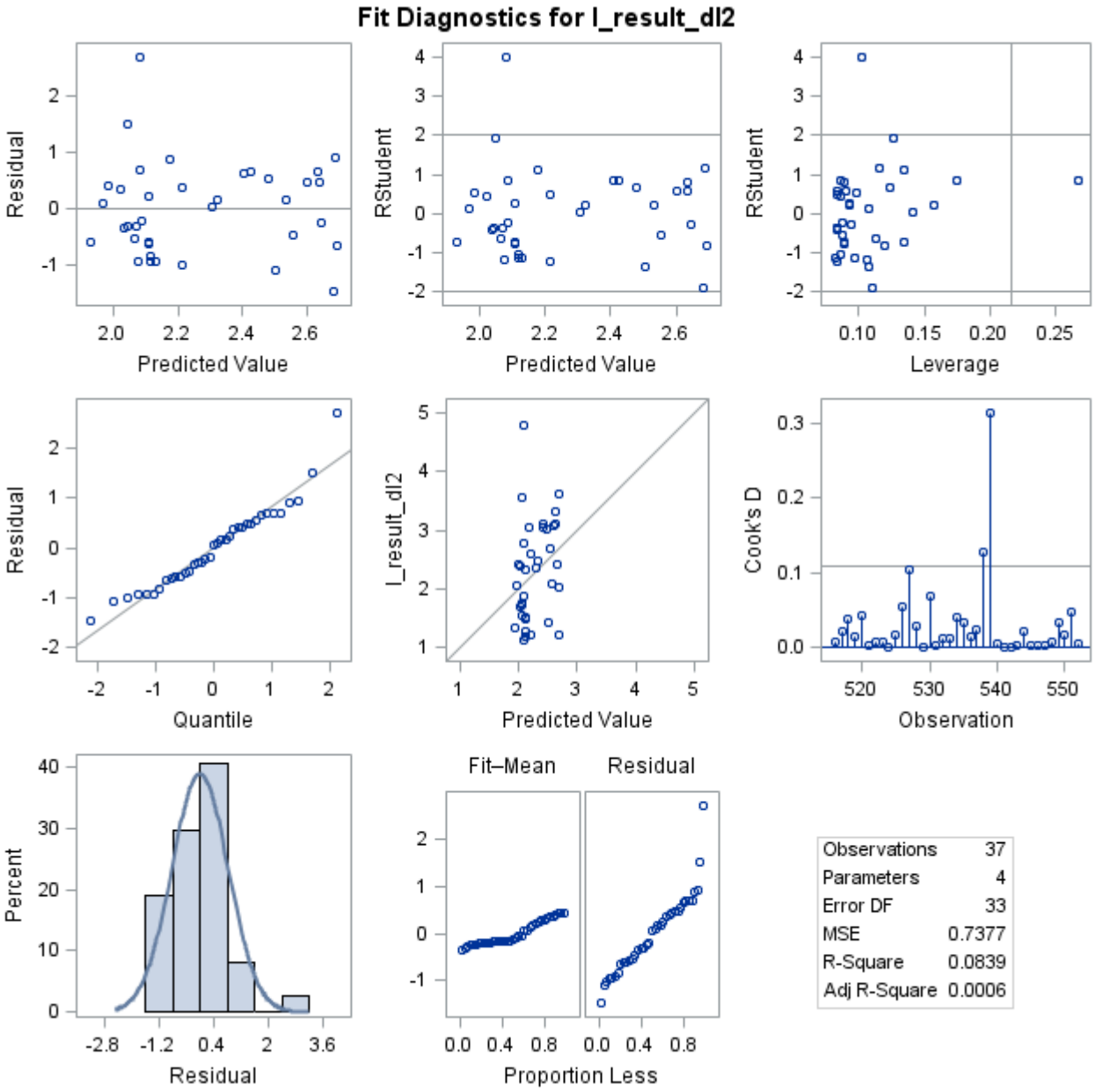
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.22932873	0.74310958	1.01	0.4018
Error	33	24.34334716	0.73767719		
Corrected Total	36	26.57267589			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.083896	37.87853	0.858881	2.267462

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.05668930	0.05668930	0.08	0.7833
BERA	2	2.17263943	1.08631972	1.47	0.2440

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.29738344	0.29738344	0.40	0.5299
BERA	2	2.17263943	1.08631972	1.47	0.2440


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.7377
R-Square 0.0839
Adj R-Square 0.0006

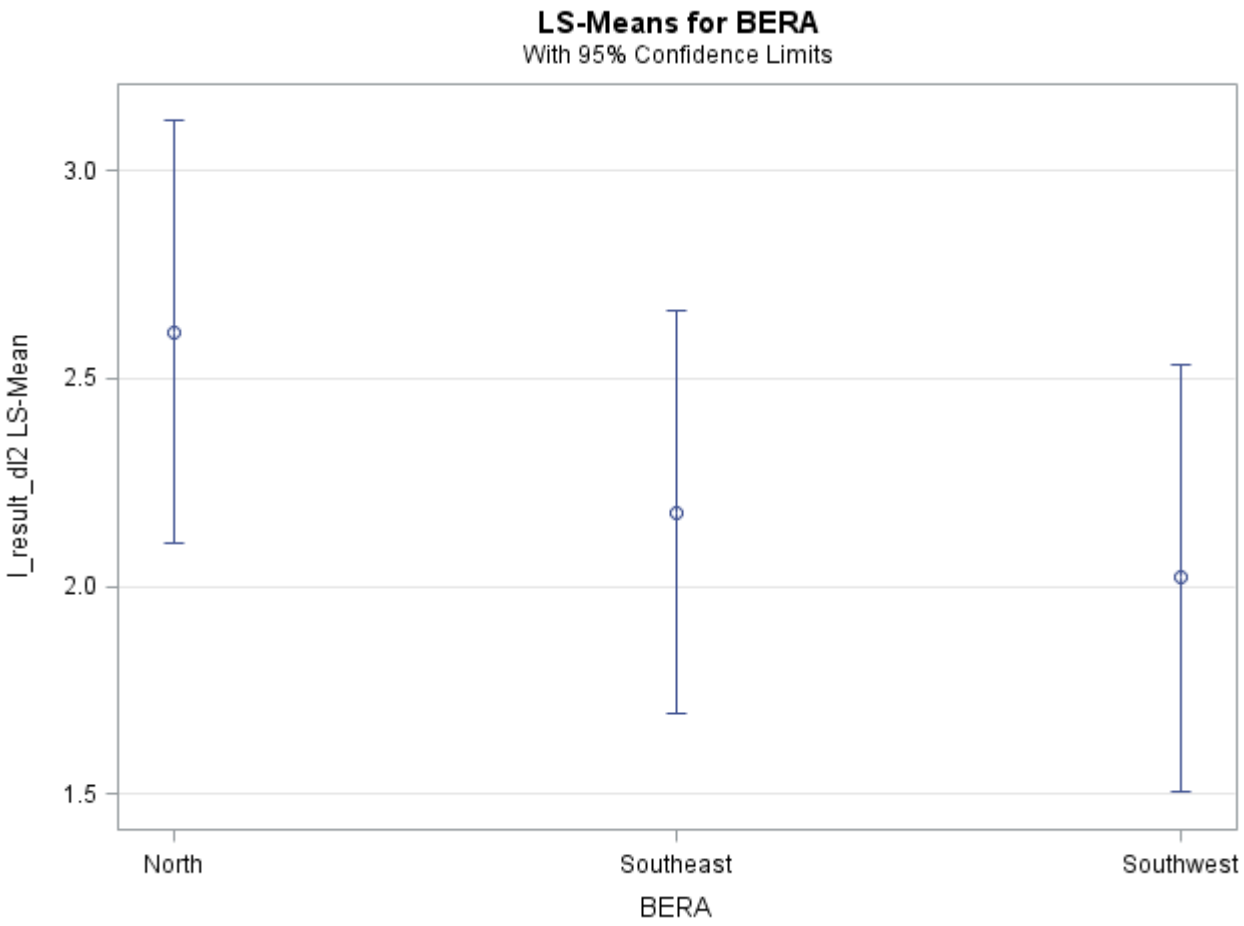
PAHs Total Alkylated PAHs
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total Alkylated PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.61326568	1
Southeast	2.17703508	2
Southwest	2.01962220	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4242	0.2424
2	0.4242		0.8947
3	0.2424	0.8947	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.0
2.5
2.0
1.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PAHs Total HMW PAHs
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

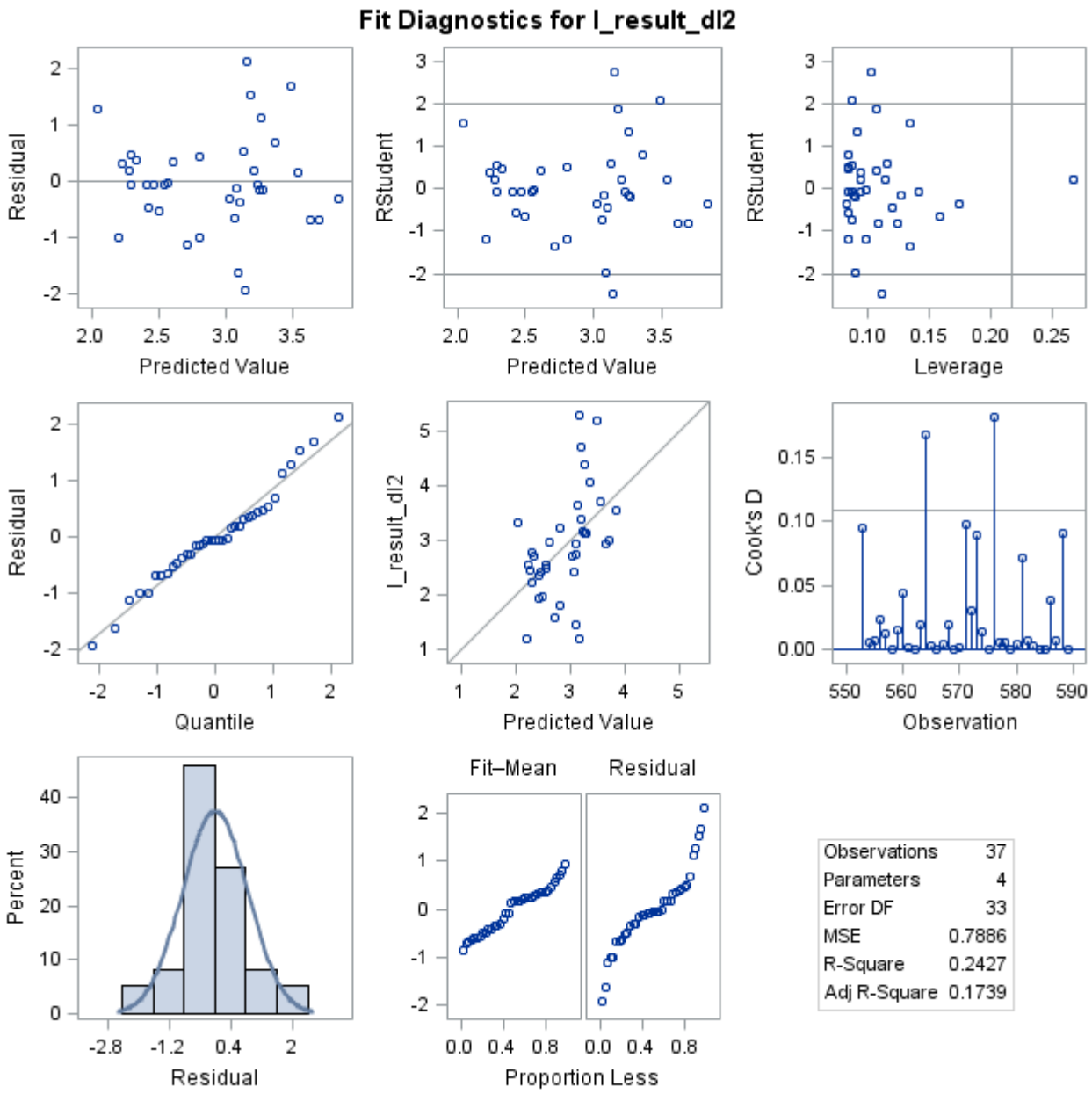
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	8.34140617	2.78046872	3.53	0.0254
Error	33	26.02333299	0.78858585		
Corrected Total	36	34.36473916			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.242732	30.63600	0.888024	2.898628

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	4.17045138	4.17045138	5.29	0.0279
BERA	2	4.17095479	2.08547739	2.64	0.0860

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	2.20422922	2.20422922	2.80	0.1040
BERA	2	4.17095479	2.08547739	2.64	0.0860


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 0.7886
R-Square 0.2427
Adj R-Square 0.1739

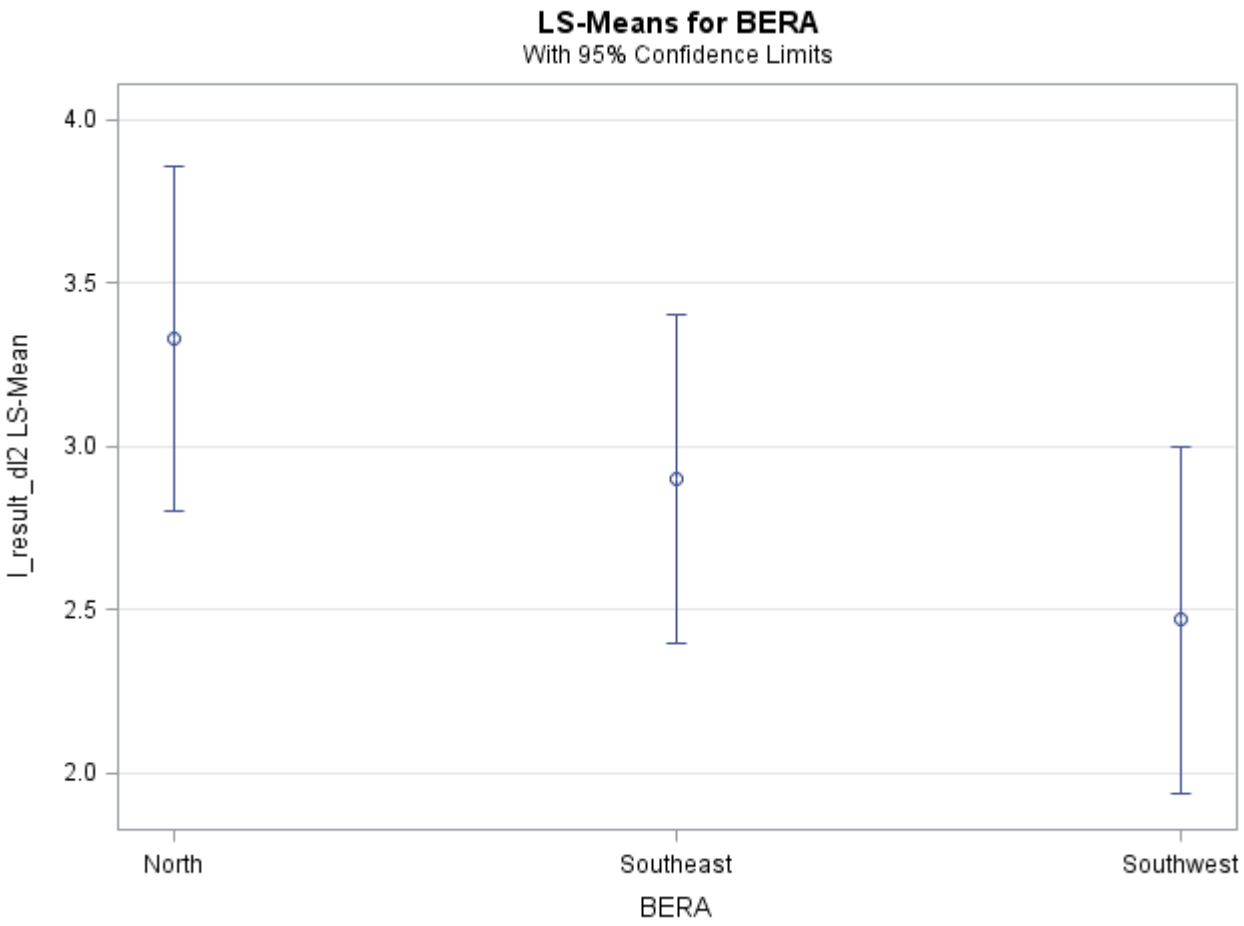
PAHs Total HMW PAHs
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total HMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.32794770	1
Southeast	2.89918159	2
Southwest	2.46870713	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4597	0.0699
2	0.4597		0.4669
3	0.0699	0.4669	


LS-Means for BERA
With 95% Confidence Limits
4.0
3.5
3.0
2.5
2.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PAHs Total LMW PAHs
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

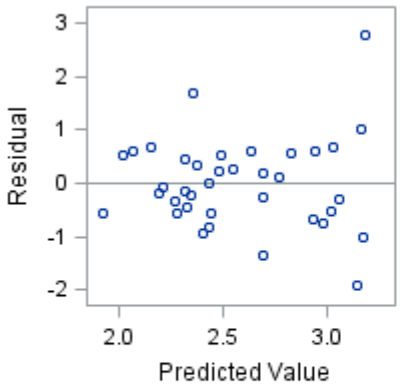
Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.69539472	1.56513157	2.00	0.1334
Error	33	25.85252697	0.78340991		
Corrected Total	36	30.54792170			

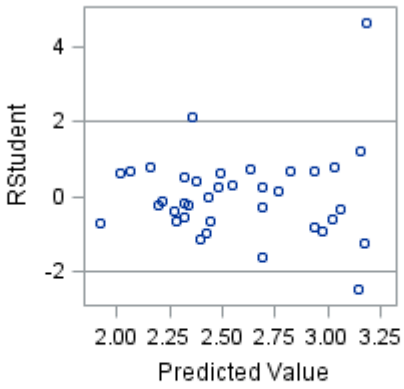
R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.153706	34.37654	0.885104	2.574734

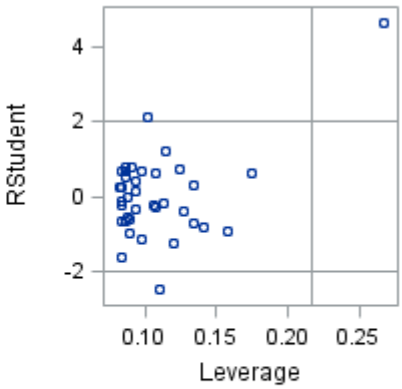
Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.89050490	0.89050490	1.14	0.2941
BERA	2	3.80488983	1.90244491	2.43	0.1038

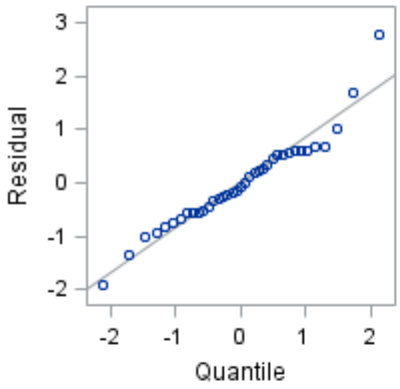
Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.93482835	1.93482835	2.47	0.1256
BERA	2	3.80488983	1.90244491	2.43	0.1038

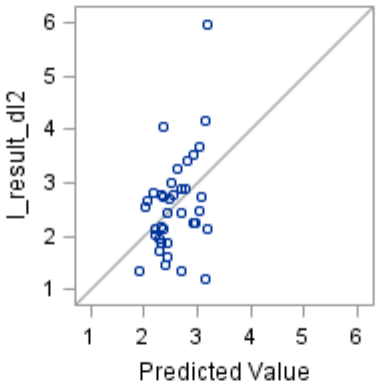
Fit Diagnostics for l_result_dl2

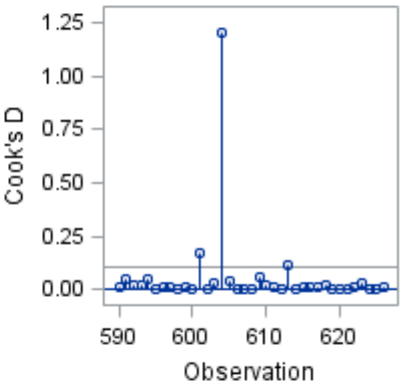


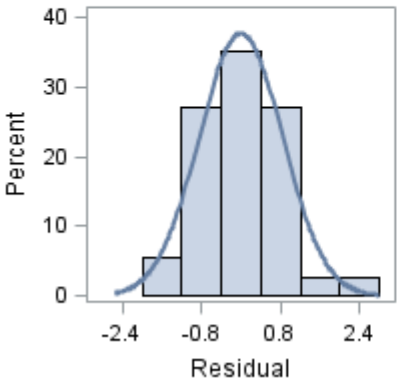


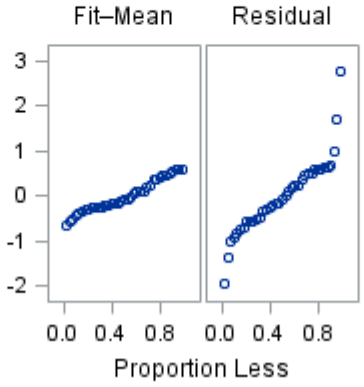












Observations	37
Parameters	4
Error DF	33
MSE	0.7834
R-Square	0.1537
Adj R-Square	0.0768

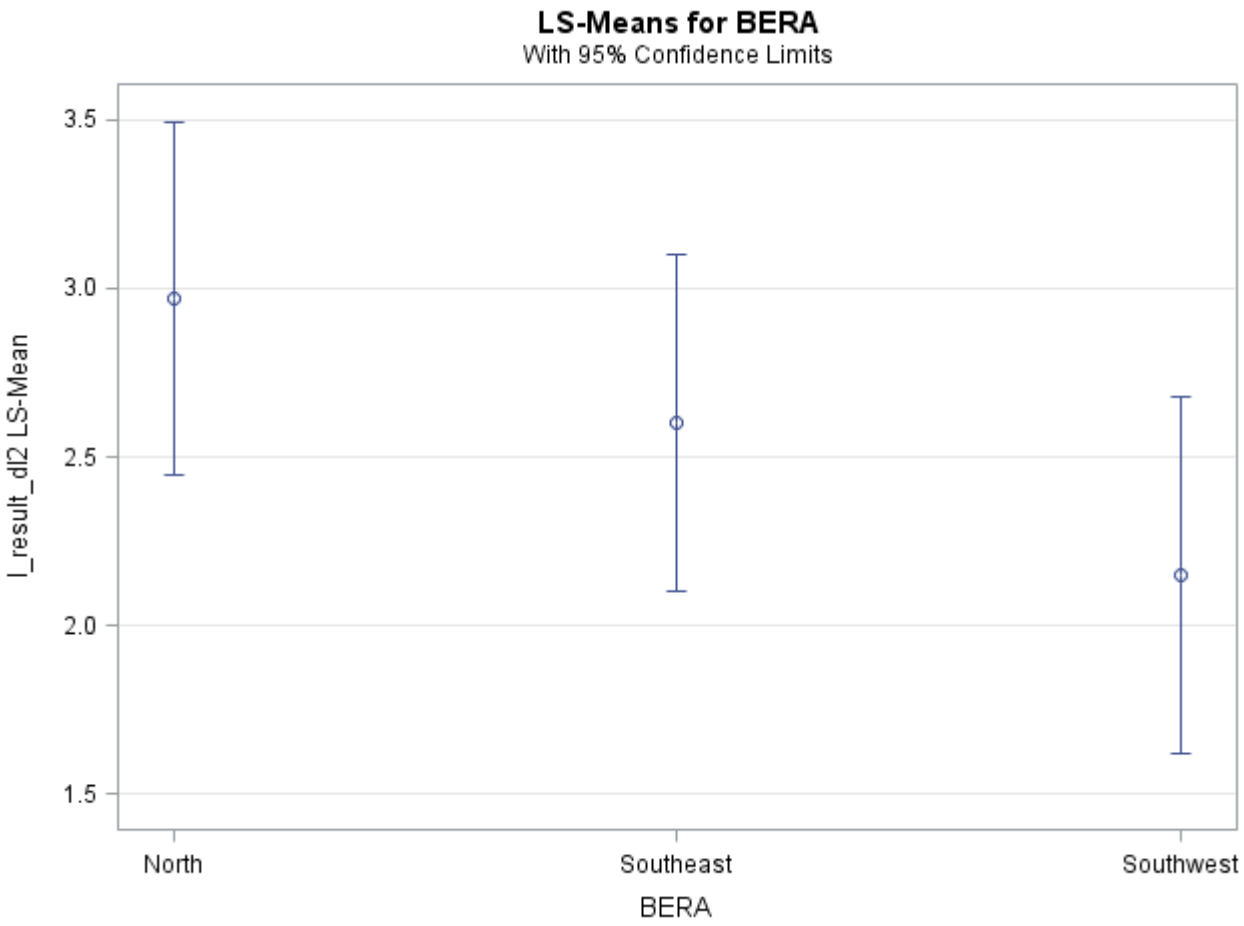
PAHs Total LMW PAHs
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.97037322	1
Southeast	2.60120029	2
Southwest	2.15042387	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5578	0.0857
2	0.5578		0.4324
3	0.0857	0.4324	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.5
3.0
2.5
2.0
1.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 37

Number of Observations Used 37

PAHs Total PAH

NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

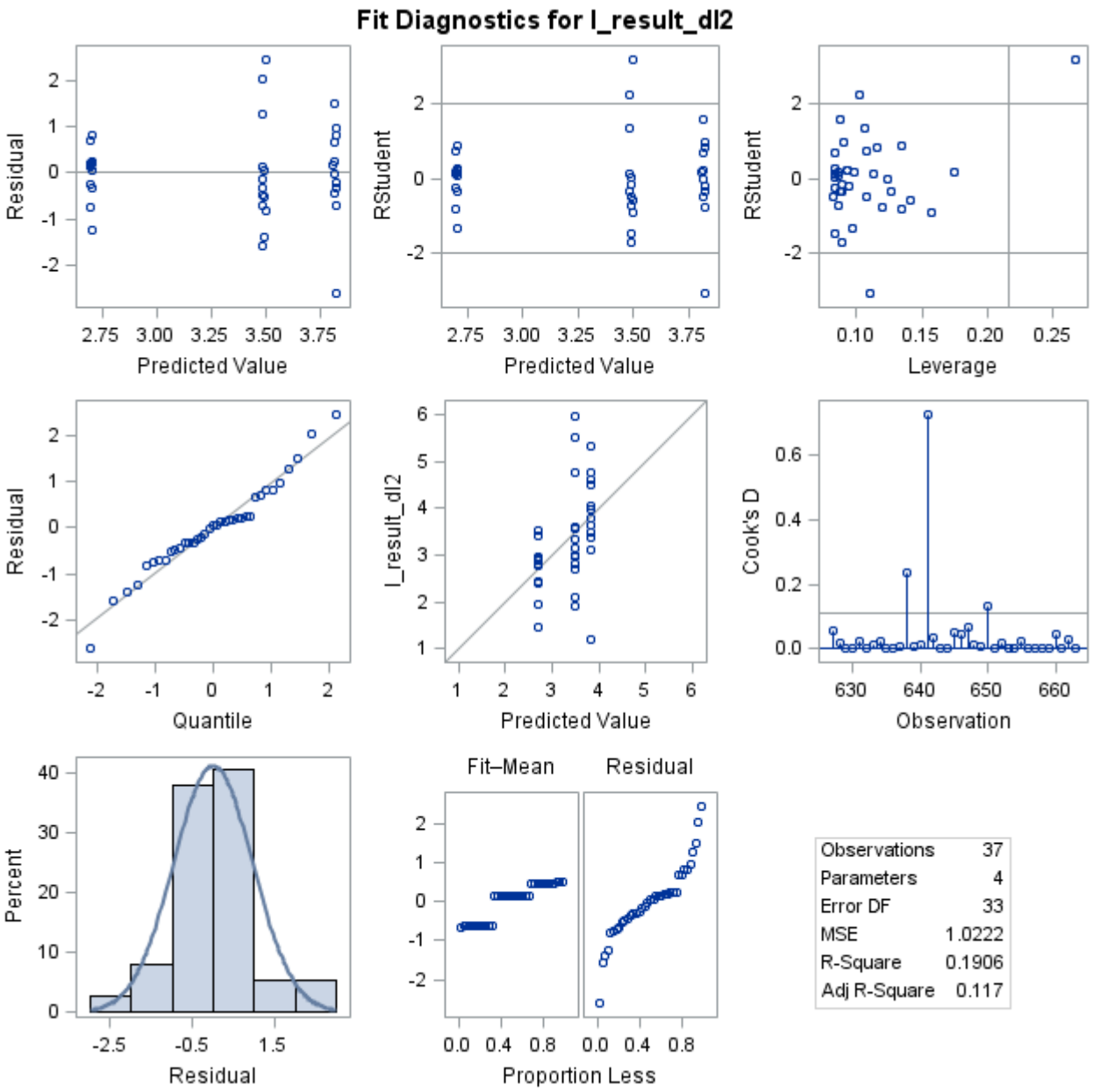
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	7.94400597	2.64800199	2.59	0.0693
Error	33	33.73141674	1.02216414		
Corrected Total	36	41.67542272			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.190616	30.26485	1.011021	3.340579

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.45989996	0.45989996	0.45	0.5070
BERA	2	7.48410601	3.74205301	3.66	0.0366

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.00076357	0.00076357	0.00	0.9784
BERA	2	7.48410601	3.74205301	3.66	0.0366


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 37
Parameters 4
Error DF 33
MSE 1.0222
R-Square 0.1906
Adj R-Square 0.117

PAHs Total PAH

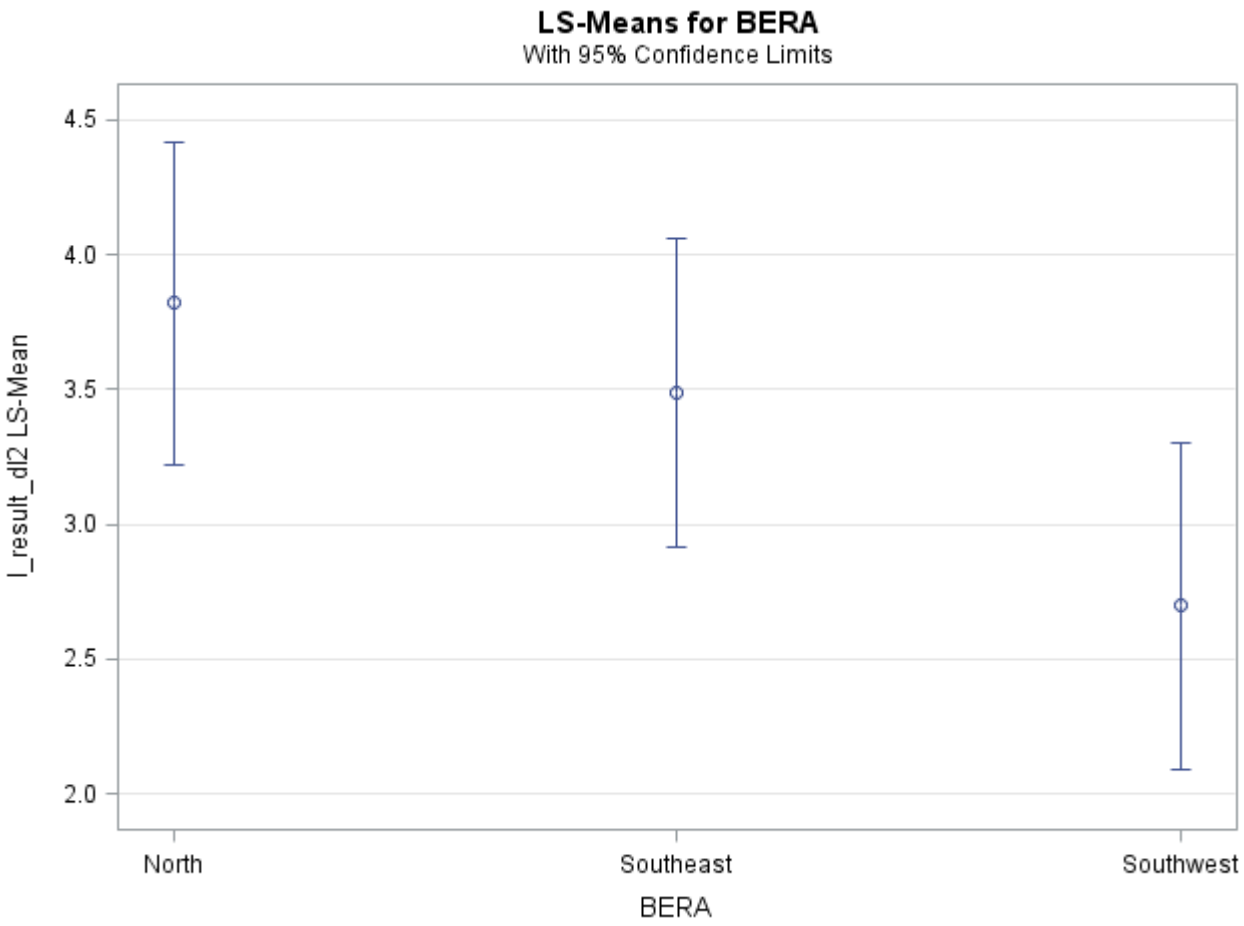
NBSA Whole Body Blue Crab ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.81974366	1
Southeast	3.49033835	2
Southwest	2.69917541	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6984	0.0332
2	0.6984		0.1484
3	0.0332	0.1484	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.5
4.0
3.5
3.0
2.5
2.0
North
Southeast
Southwest
BERA

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

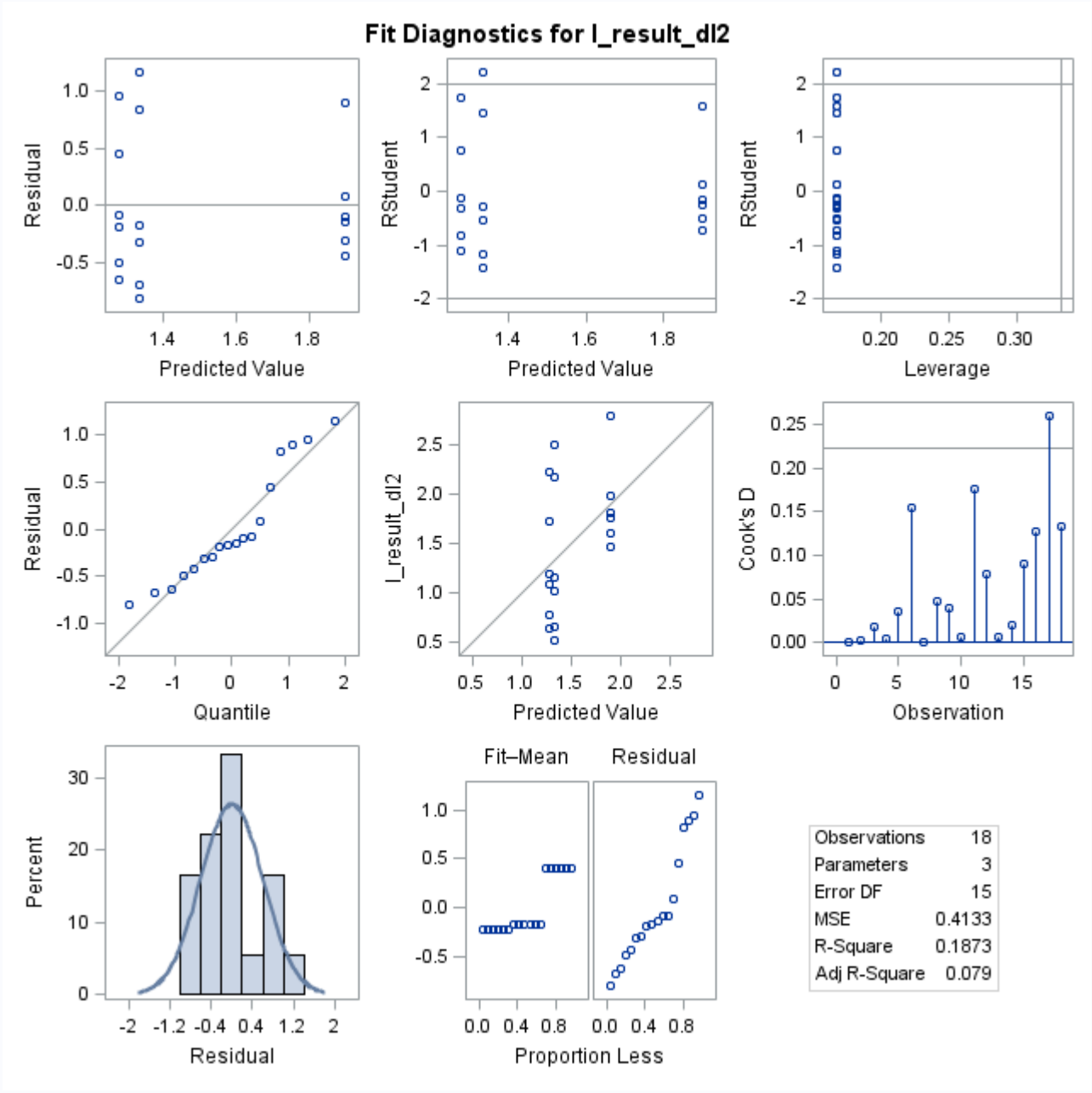
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.42922493	0.71461246	1.73	0.2110
Error	15	6.20002076	0.41333472		
Corrected Total	17	7.62924569			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.187335	42.77944	0.642911	1.502851

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.42922493	0.71461246	1.73	0.2110

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.42922493	0.71461246	1.73	0.2110


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4133
R-Square 0.1873
Adj R-Square 0.079

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.4115	0.2057	1.43	0.2694
Error	15	2.1531	0.1435		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.26	0.1569
Error	9.5809		

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	1.89985000	0.47064380
Southeast	**6**	1.27442036	0.60139397
Southwest	**6**	1.33428234	0.81044670

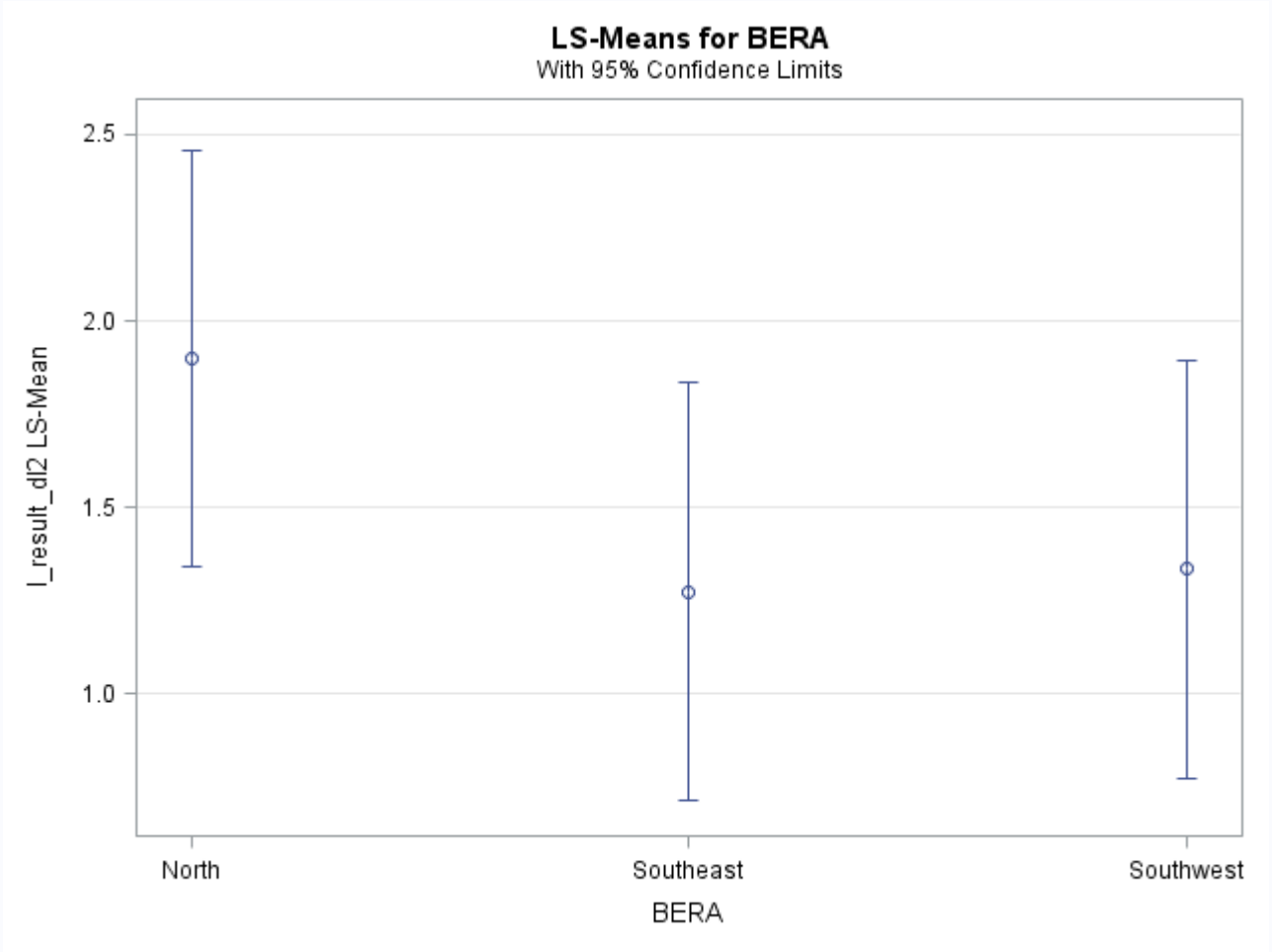
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	1.89985000	1
Southeast	1.27442036	2
Southwest	1.33428234	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2430	0.3083
2	0.2430		0.9858
3	0.3083	0.9858	


LS-Means for BERA
With 95% Confidence Limits
2.5
2.0
1.5
1.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

PCBs Total PCBs congener (209 specified)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PCBs Total PCBs congener (209 specified)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

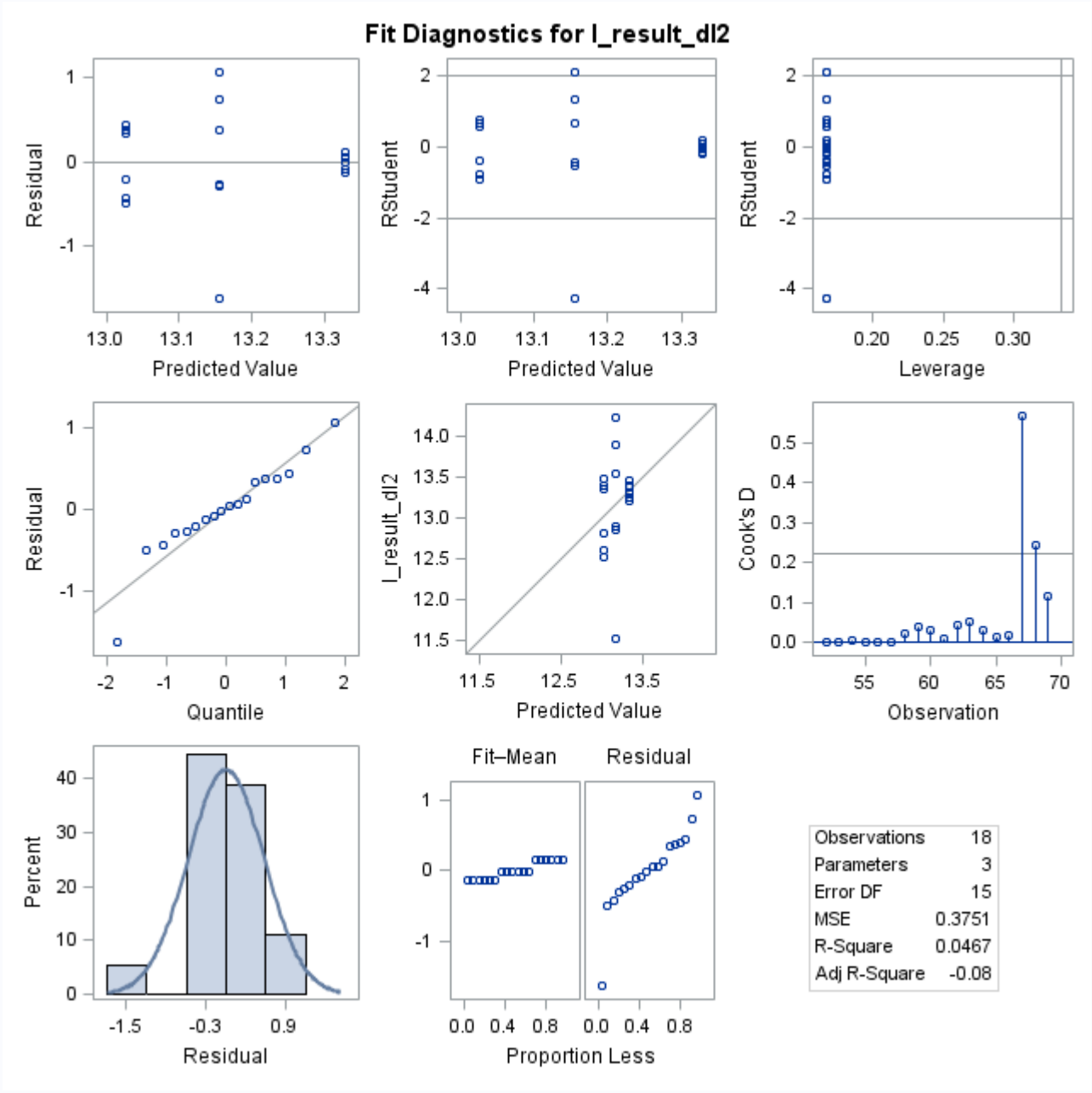
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.27562335	0.13781167	0.37	0.6986
Error	15	5.62638127	0.37509208		
Corrected Total	17	5.90200462			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.046700	4.650370	0.612448	13.16987

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.27562335	0.13781167	0.37	0.6986

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.27562335	0.13781167	0.37	0.6986


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.3751
R-Square 0.0467
Adj R-Square -0.08

PCBs Total PCBs congener (209 specified)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.9886	0.9943	2.90	0.0861
Error	15	5.1420	0.3428		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.35	0.3183
Error	7.0377		

PCBs Total PCBs congener (209 specified)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	13.3283101	0.09538816
Southeast	**6**	13.0262982	0.43170598
Southwest	**6**	13.1550003	0.96426516

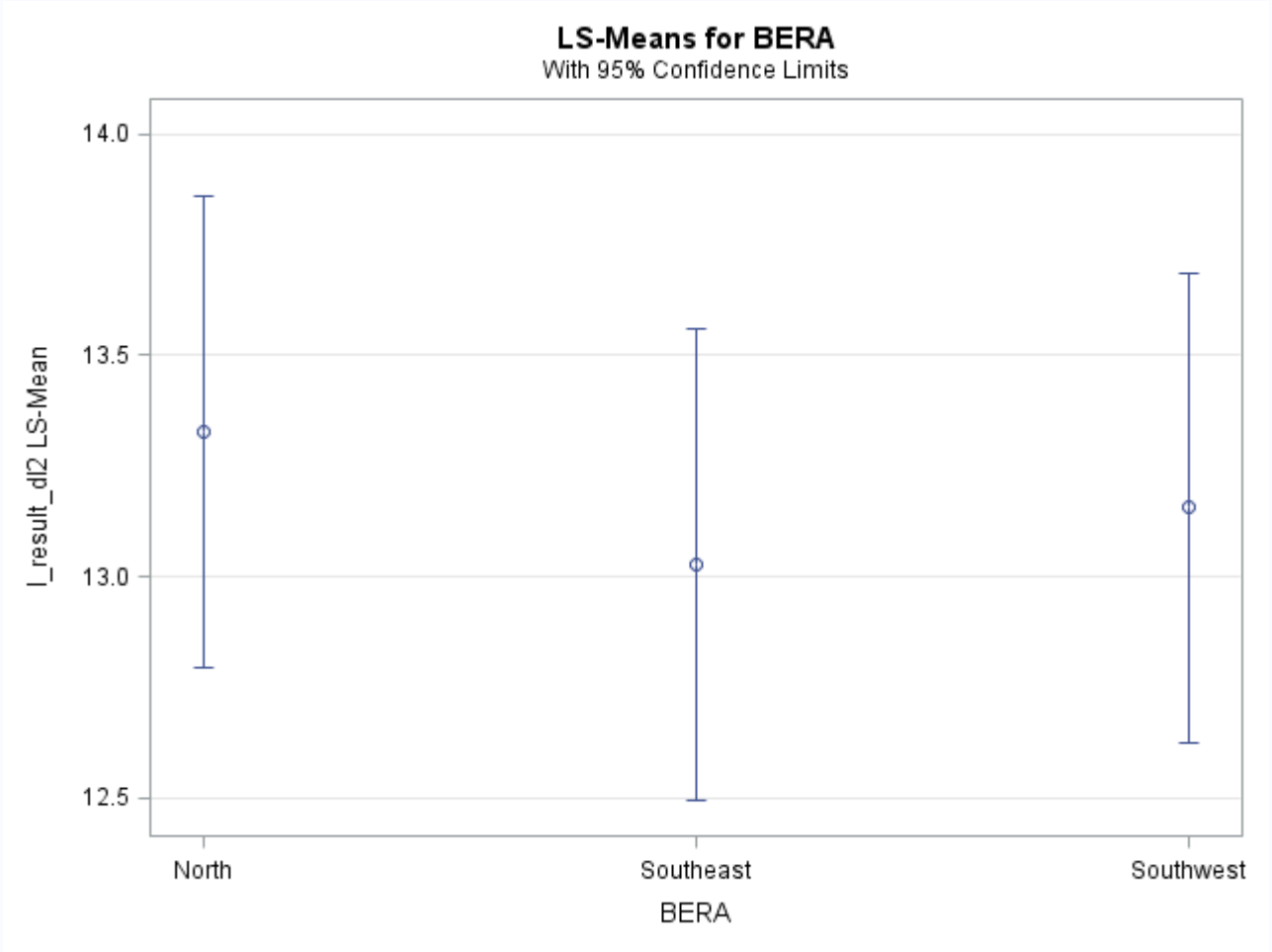
PCBs Total PCBs congener (209 specified)
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	13.3283101	1
Southeast	13.0262982	2
Southwest	13.1550003	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6763	0.8770
2	0.6763		0.9299
3	0.8770	0.9299	


LS-Means for BERA
With 95% Confidence Limits
14.0
13.5
13.0
12.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Dieldrin
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

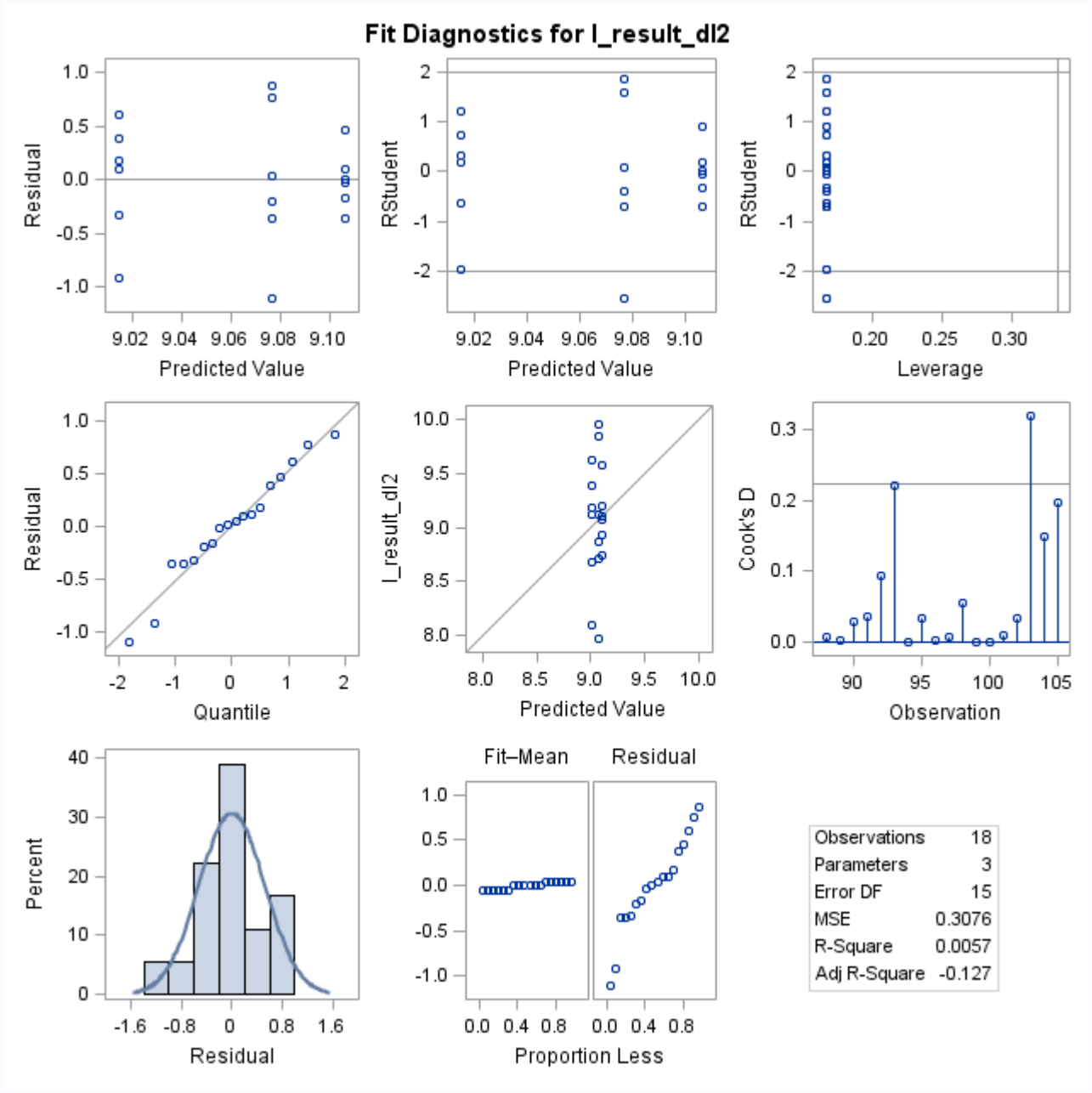
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.02623276	0.01311638	0.04	0.9584
Error	15	4.61337446	0.30755830		
Corrected Total	17	4.63960722			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.005654	6.117291	0.554579	9.065768

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.02623276	0.01311638	0.04	0.9584

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.02623276	0.01311638	0.04	0.9584


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.3076
R-Square 0.0057
Adj R-Square -0.127

Pesticides Dieldrin
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.4623	0.2312	2.01	0.1688
Error	15	1.7269	0.1151		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.06	0.9395
Error	8.5536		

Pesticides Dieldrin
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	9.01459934	0.54750785
Southeast	**6**	9.10626508	0.27569786
Southwest	**6**	9.07643948	0.73952737

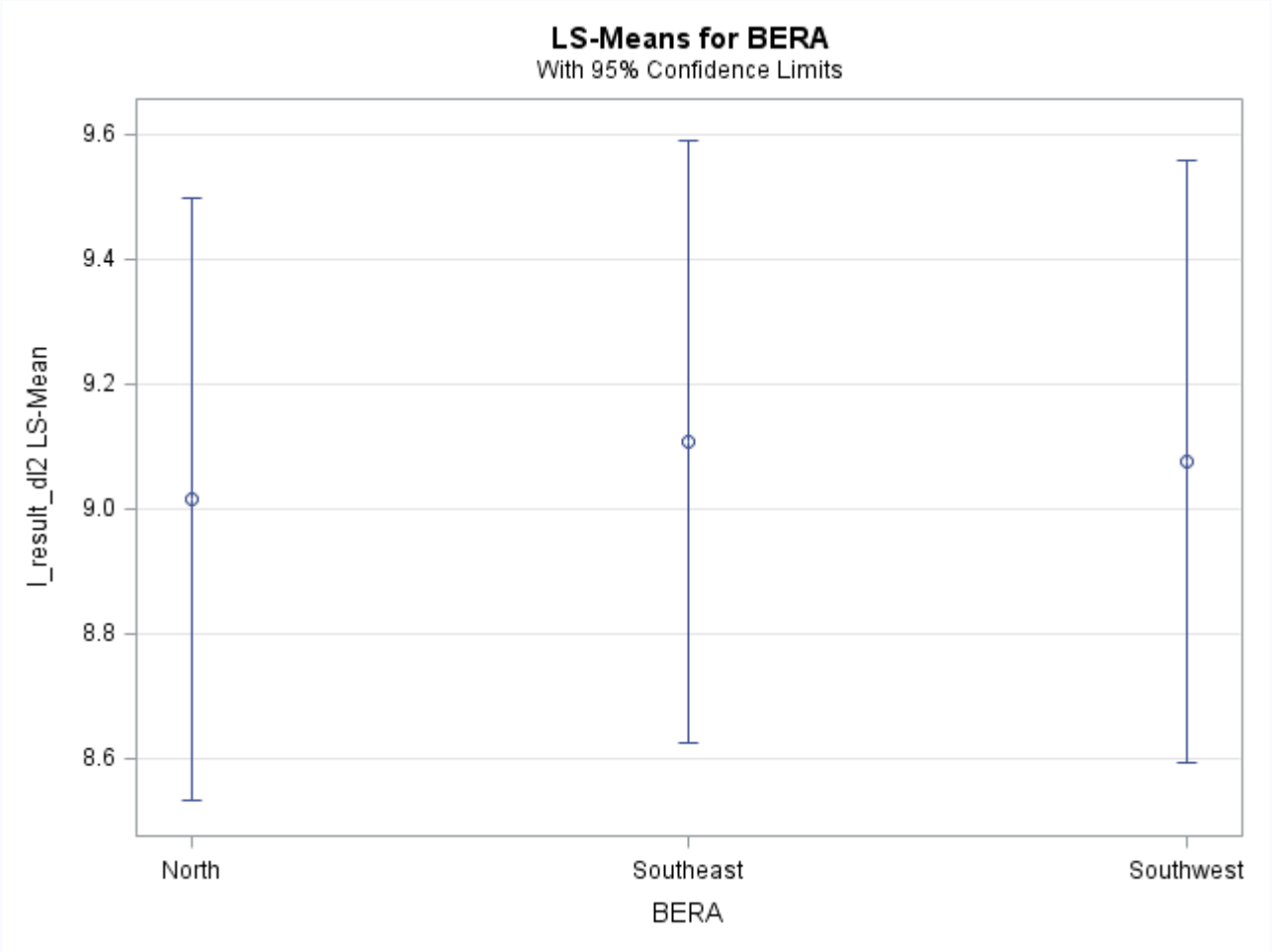
Pesticides Dieldrin
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.01459934	1
Southeast	9.10626508	2
Southwest	9.07643948	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9560	0.9797
2	0.9560		0.9952
3	0.9797	0.9952	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.6
9.4
9.2
9.0
8.8
8.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	18
Number of Observations Used	18

Pesticides Heptachlor epoxide
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

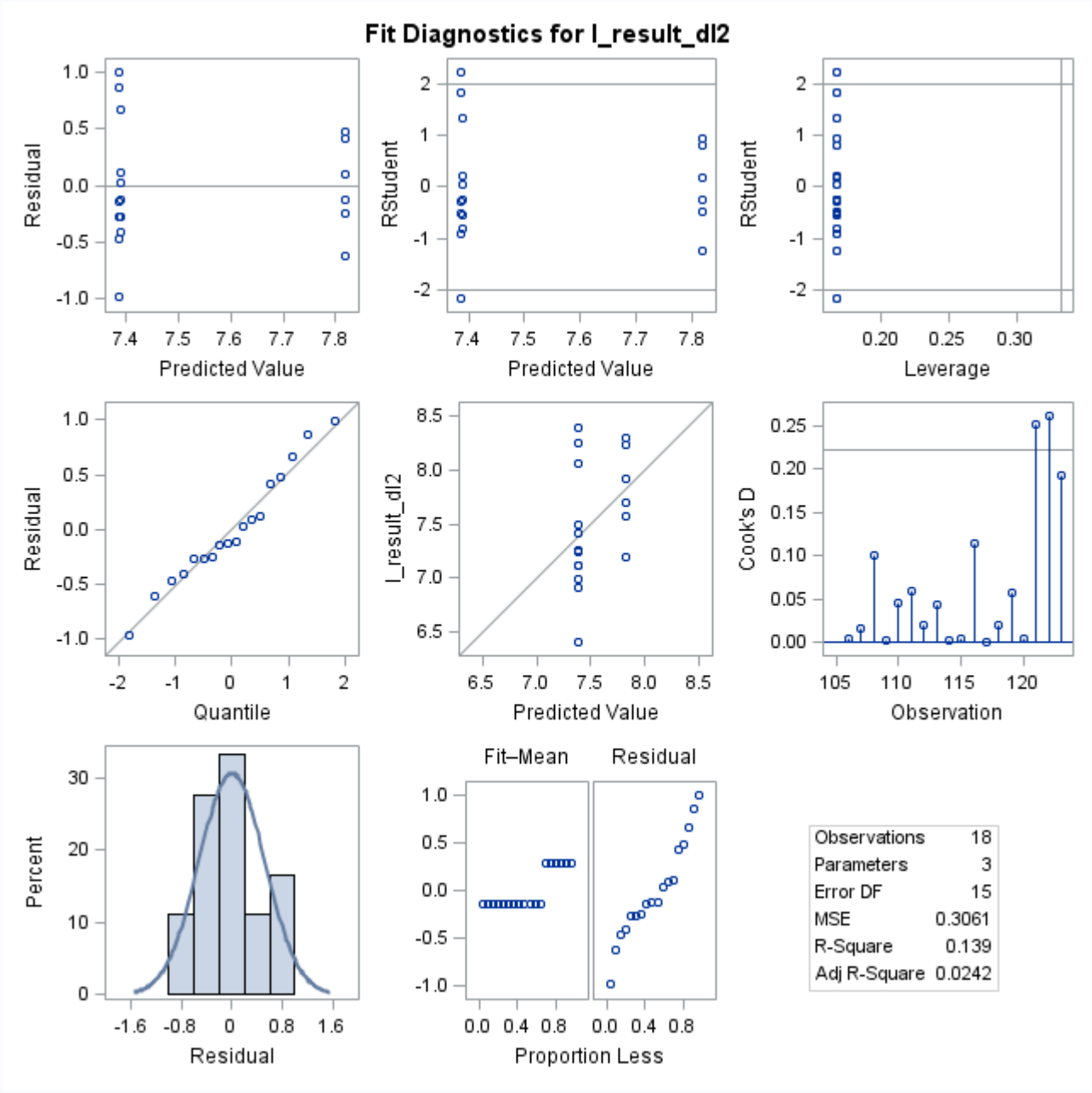
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.74118320	0.37059160	1.21	0.3255
Error	15	4.59195720	0.30613048		
Corrected Total	17	5.33314041			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.138977	7.346805	0.553291	7.531037

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.74118320	0.37059160	1.21	0.3255

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.74118320	0.37059160	1.21	0.3255


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.3061
R-Square 0.139
Adj R-Square 0.0242

Pesticides Heptachlor epoxide
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.5502	0.2751	3.28	0.0658
Error	15	1.2583	0.0839		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.78	0.2201
Error	9.4611		

Pesticides Heptachlor epoxide
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	7.81799925	0.41807112
Southeast	**6**	7.38975910	0.37603548
Southwest	**6**	7.38535325	0.77601888

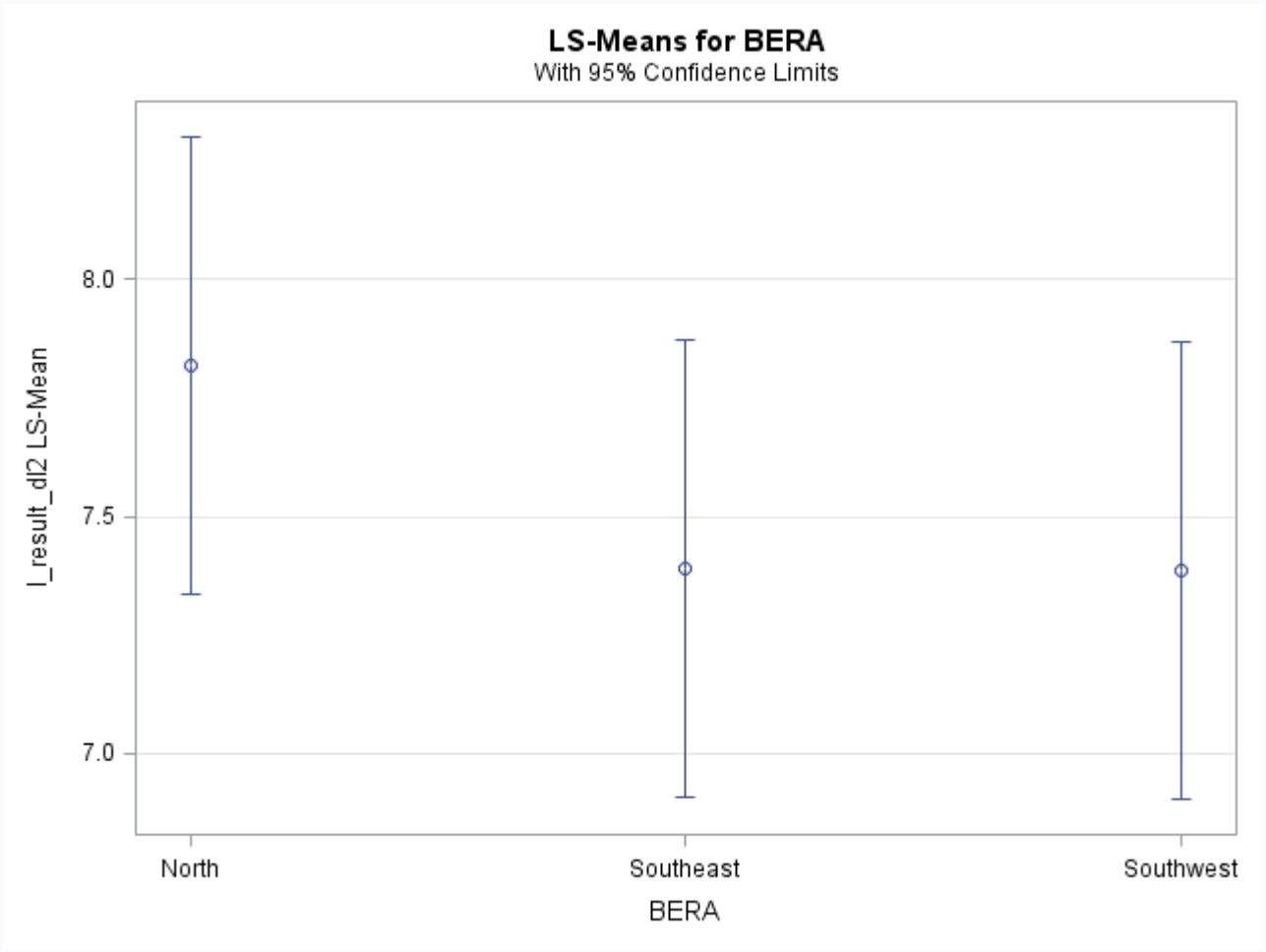
Pesticides Heptachlor epoxide
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.81799925	1
Southeast	7.38975910	2
Southwest	7.38535325	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3956	0.3885
2	0.3956		0.9999
3	0.3885	0.9999	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
8.0
7.5
7.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Hexachlorobenzene
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

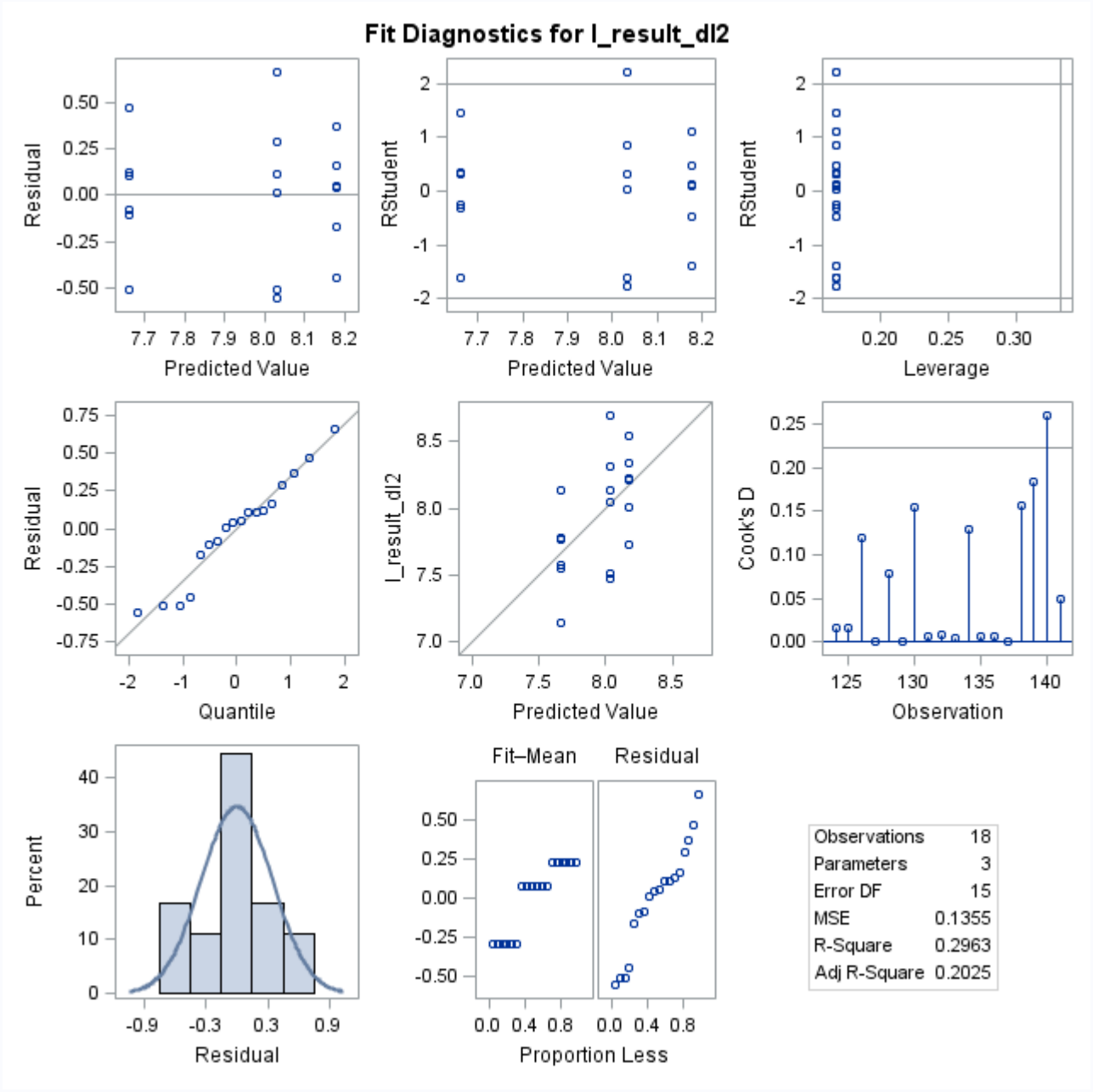
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.85592593	0.42796296	3.16	0.0716
Error	15	2.03231189	0.13548746		
Corrected Total	17	2.88823782			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.296349	4.626606	0.368086	7.955858

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.85592593	0.42796296	3.16	0.0716

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.85592593	0.42796296	3.16	0.0716


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1355
R-Square 0.2963
Adj R-Square 0.2025

Pesticides Hexachlorobenzene
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0483	0.0241	1.35	0.2886
Error	15	0.2678	0.0179		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	4.14	0.0503
Error	9.6547		

Pesticides Hexachlorobenzene
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	8.17724607	0.28092464
Southeast	**6**	7.65924024	0.32485714
Southwest	**6**	8.03108799	0.47118103

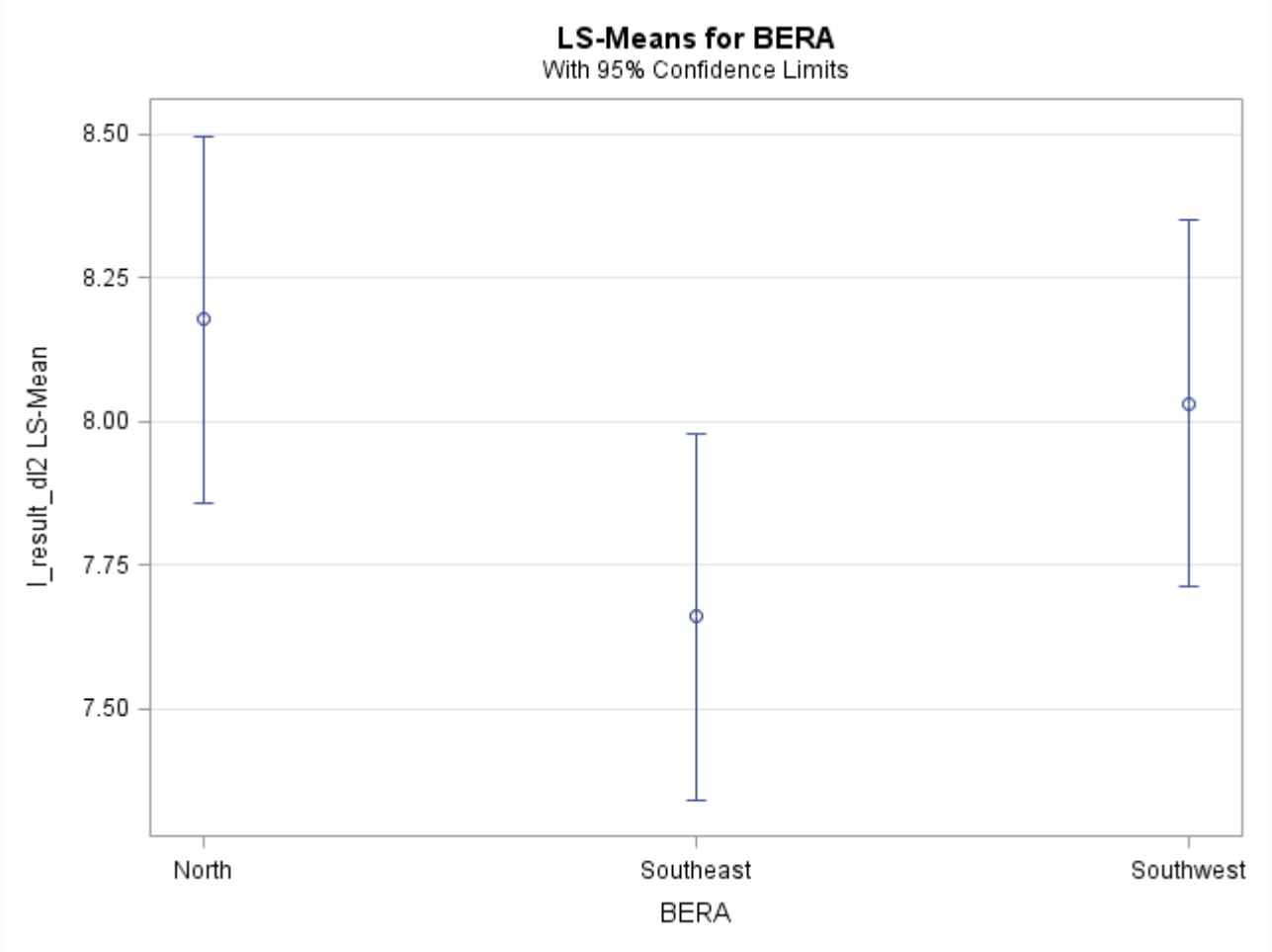
Pesticides Hexachlorobenzene
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.17724607	1
Southeast	7.65924024	2
Southwest	8.03108799	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0674	0.7741
2	0.0674		0.2199
3	0.7741	0.2199	


LS-Means for BERA
With 95% Confidence Limits
8.50
8.25
8.00
7.75
7.50
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

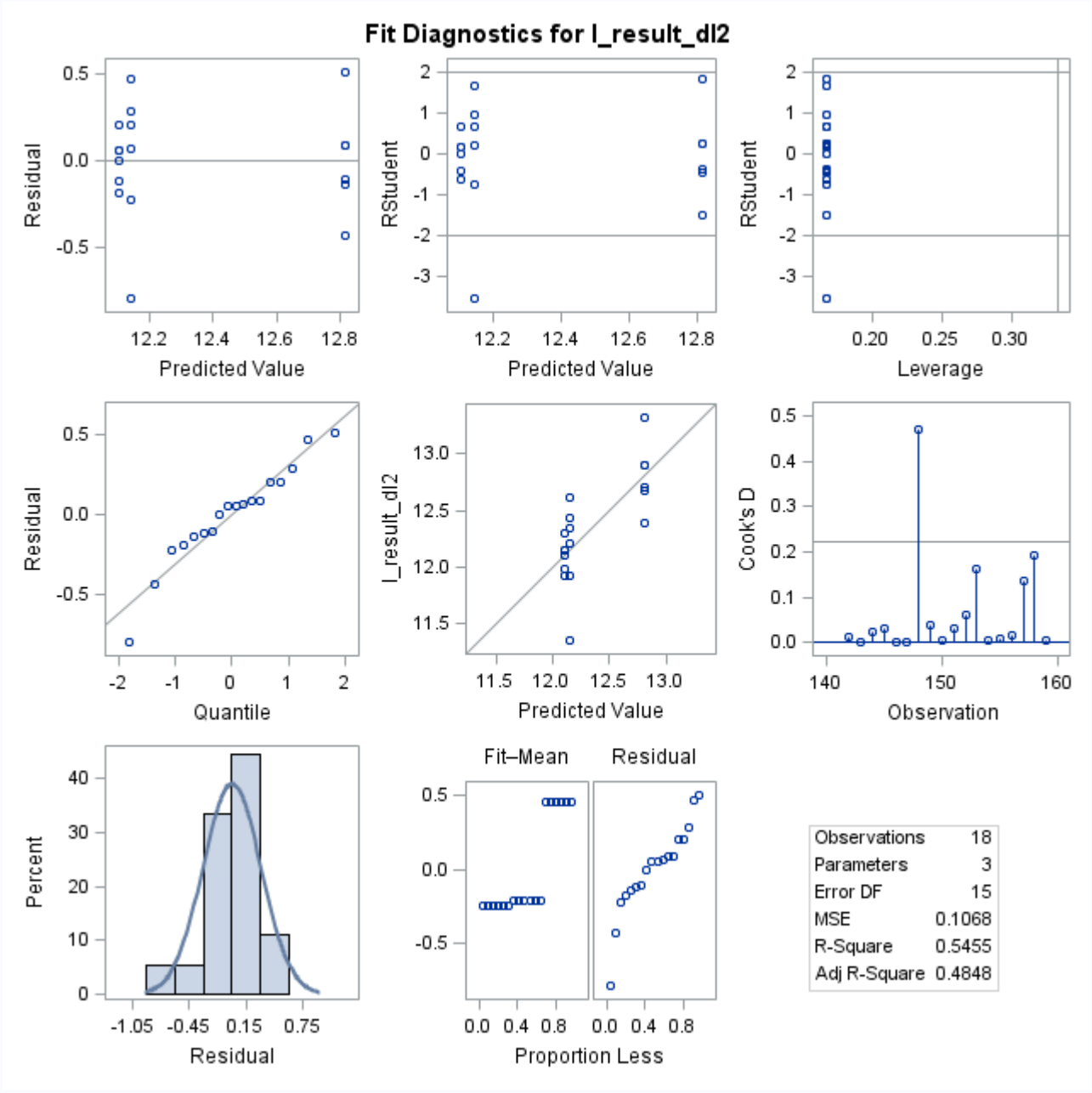
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.92222240	0.96111120	9.00	0.0027
Error	15	1.60186363	0.10679091		
Corrected Total	17	3.52408603			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.545453	2.645285	0.326789	12.35363

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.92222240	0.96111120	9.00	0.0027

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.92222240	0.96111120	9.00	0.0027


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1068
R-Square 0.5455
Adj R-Square 0.4848

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0730	0.0365	1.60	0.2337
Error	15	0.3414	0.0228		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	12.29	0.0035
Error	8.1581		

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	12.1021622	0.13654057
Southeast	**6**	12.1435764	0.45281766
Southwest	**6**	12.8151620	0.31094303

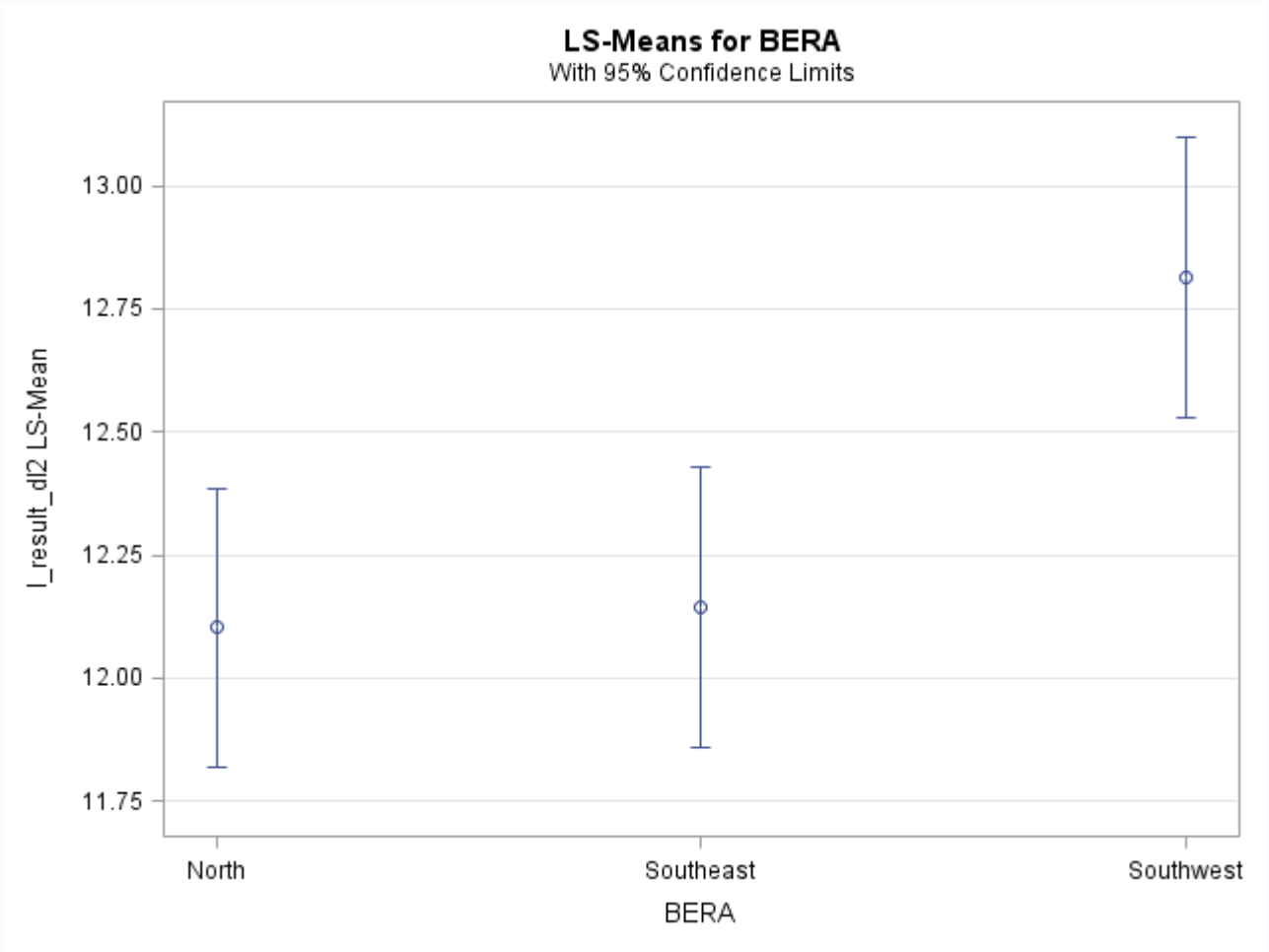
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.1021622	1
Southeast	12.1435764	2
Southwest	12.8151620	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9738	0.0049
2	0.9738		0.0076
3	0.0049	0.0076	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.00
12.75
12.50
12.25
12.00
11.75
North
Southeast
Southwest
BERA

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

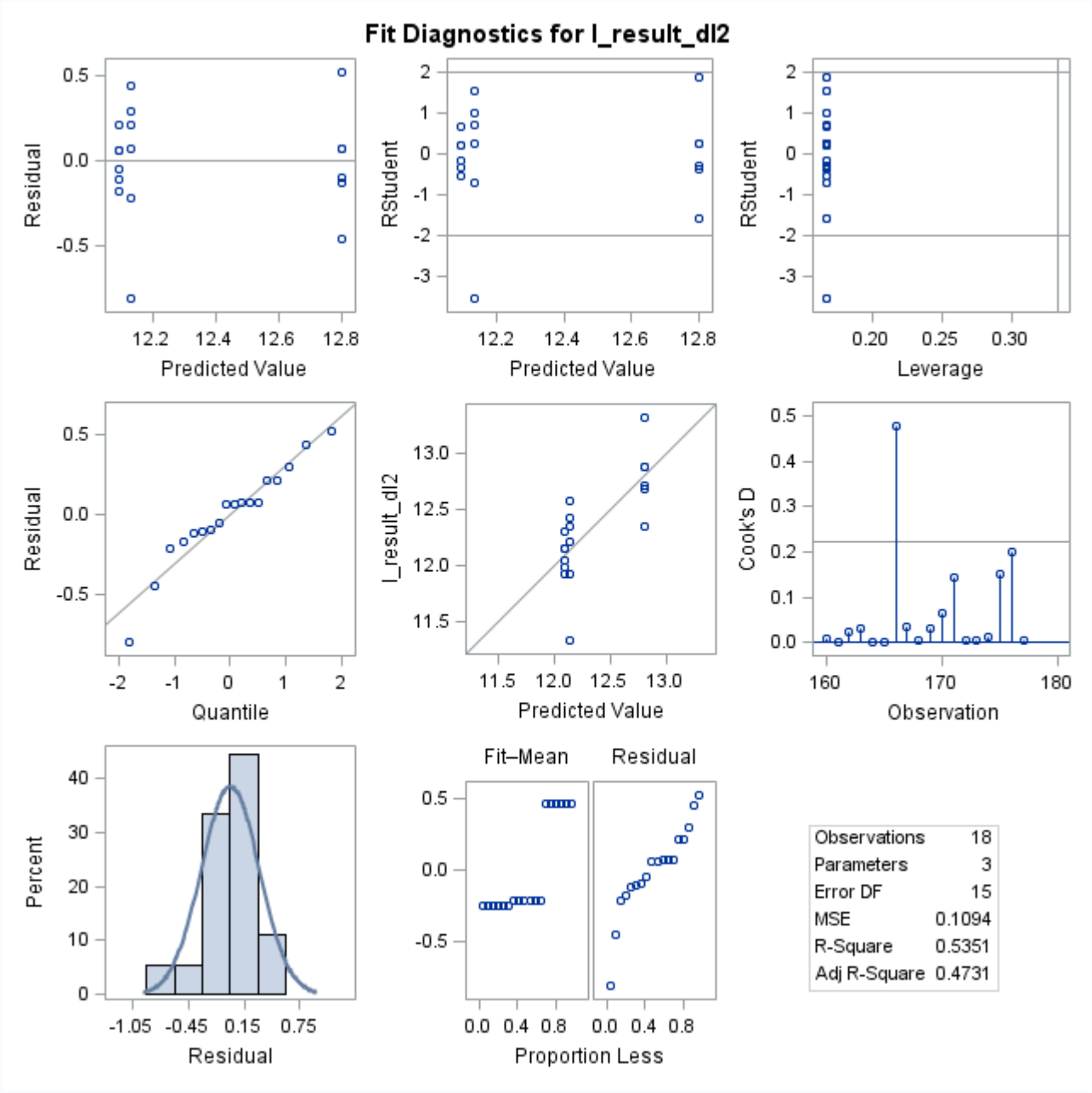
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.88933313	0.94466656	8.63	0.0032
Error	15	1.64141492	0.10942766		
Corrected Total	17	3.53074805			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.535108	2.680251	0.330799	12.34207

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.88933313	0.94466656	8.63	0.0032

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.88933313	0.94466656	8.63	0.0032


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1094
R-Square 0.5351
Adj R-Square 0.4731

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0734	0.0367	1.48	0.2595
Error	15	0.3722	0.0248		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	11.44	0.0043
Error	8.1469		

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	12.0926358	0.13863980
Southeast	**6**	12.1339577	0.45440573
Southwest	**6**	12.7996295	0.32027710

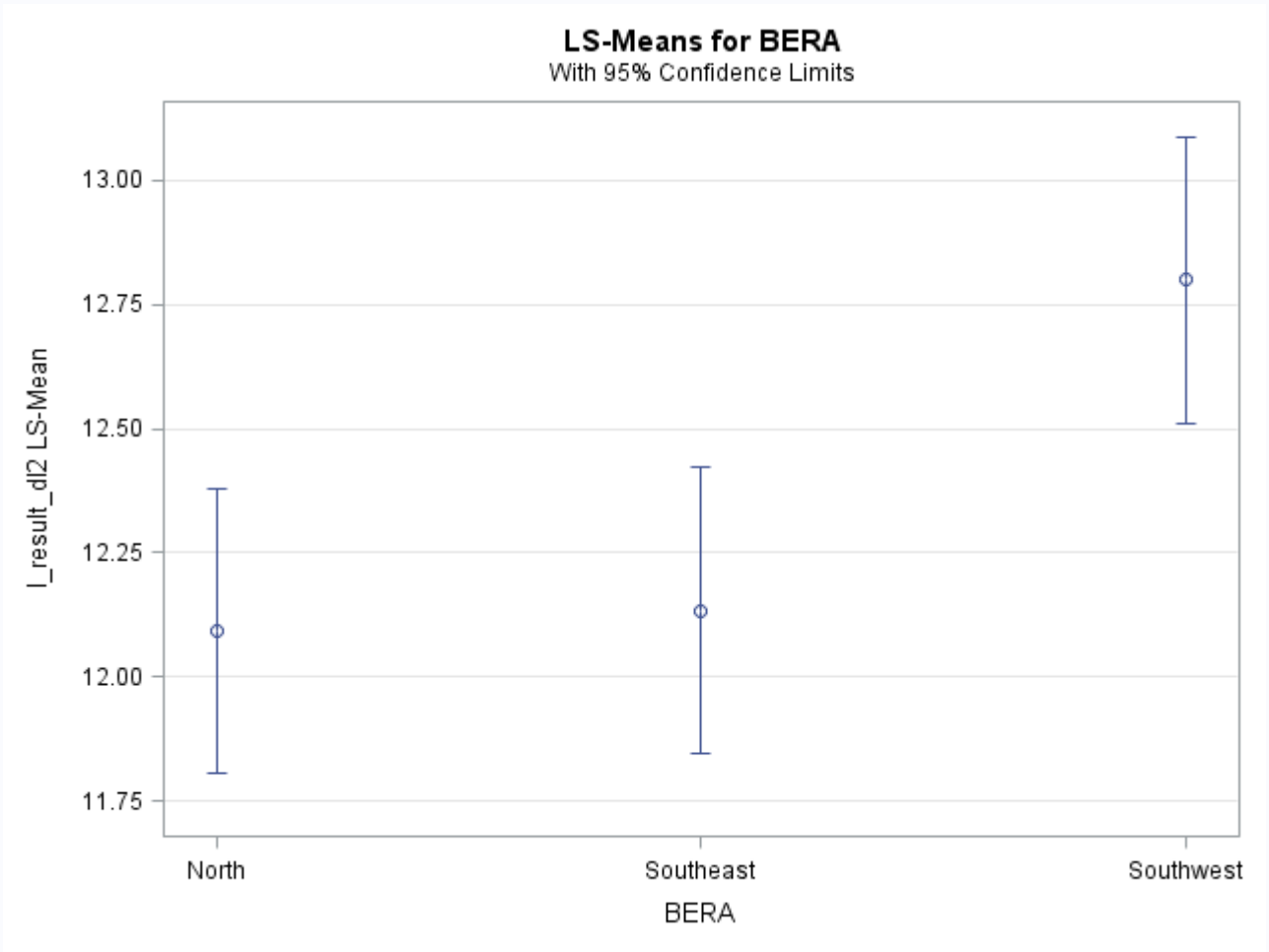
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.0926358	1
Southeast	12.1339577	2
Southwest	12.7996295	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9746	0.0057
2	0.9746		0.0088
3	0.0057	0.0088	


LS-Means for BERA
With 95% Confidence Limits
13.00
12.75
12.50
12.25
12.00
11.75
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total alpha + gamma chlordane
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

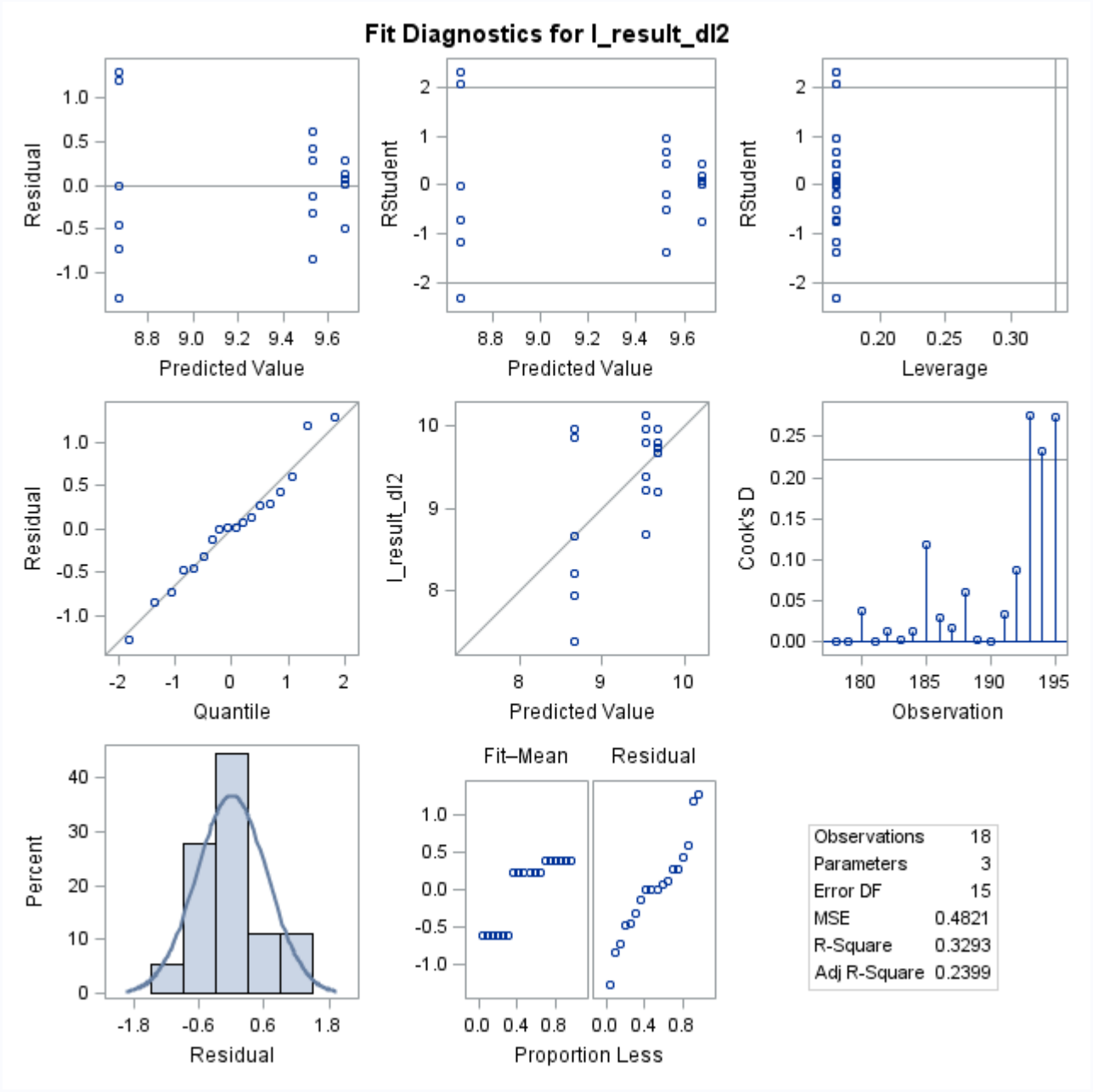
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.55034822	1.77517411	3.68	0.0500
Error	15	7.23105484	0.48207032		
Corrected Total	17	10.78140305			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.329303	7.474380	0.694313	9.289236

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.55034822	1.77517411	3.68	0.0500

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.55034822	1.77517411	3.68	0.0500


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4821
R-Square 0.3293
Adj R-Square 0.2399

Pesticides Total alpha + gamma chlordane
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	2.4200	1.2100	5.65	0.0148
Error	15	3.2122	0.2141		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.49	0.1430
Error	8.1571		

Pesticides Total alpha + gamma chlordane
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	9.67369984	0.25750088
Southeast	**6**	9.52712430	0.53760171
Southwest	**6**	8.66688448	1.04445616

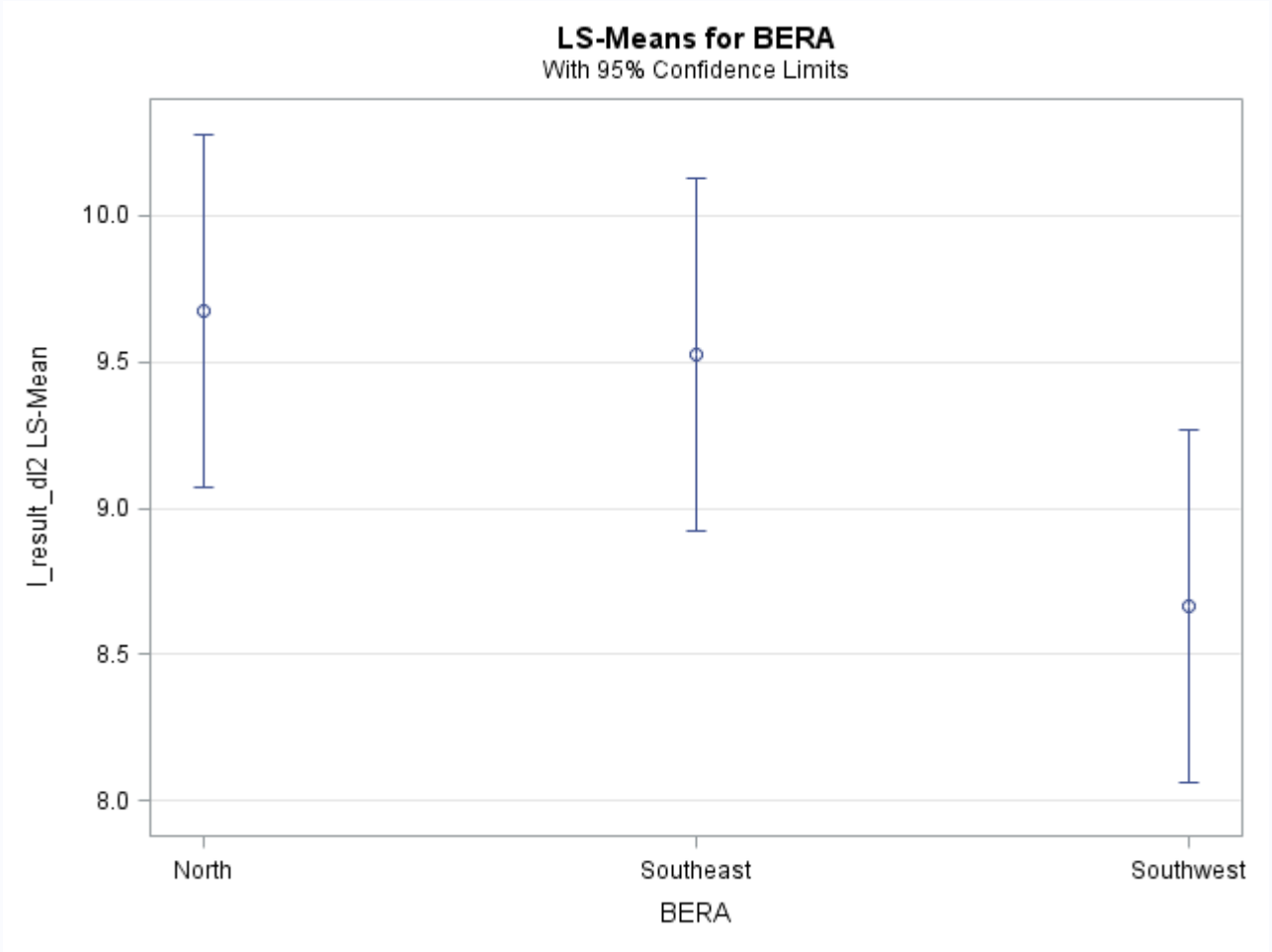
Pesticides Total alpha + gamma chlordane
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.67369984	1
Southeast	9.52712430	2
Southwest	8.66688448	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9293	0.0588
2	0.9293		0.1140
3	0.0588	0.1140	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.0
9.5
9.0
8.5
8.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides alpha-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

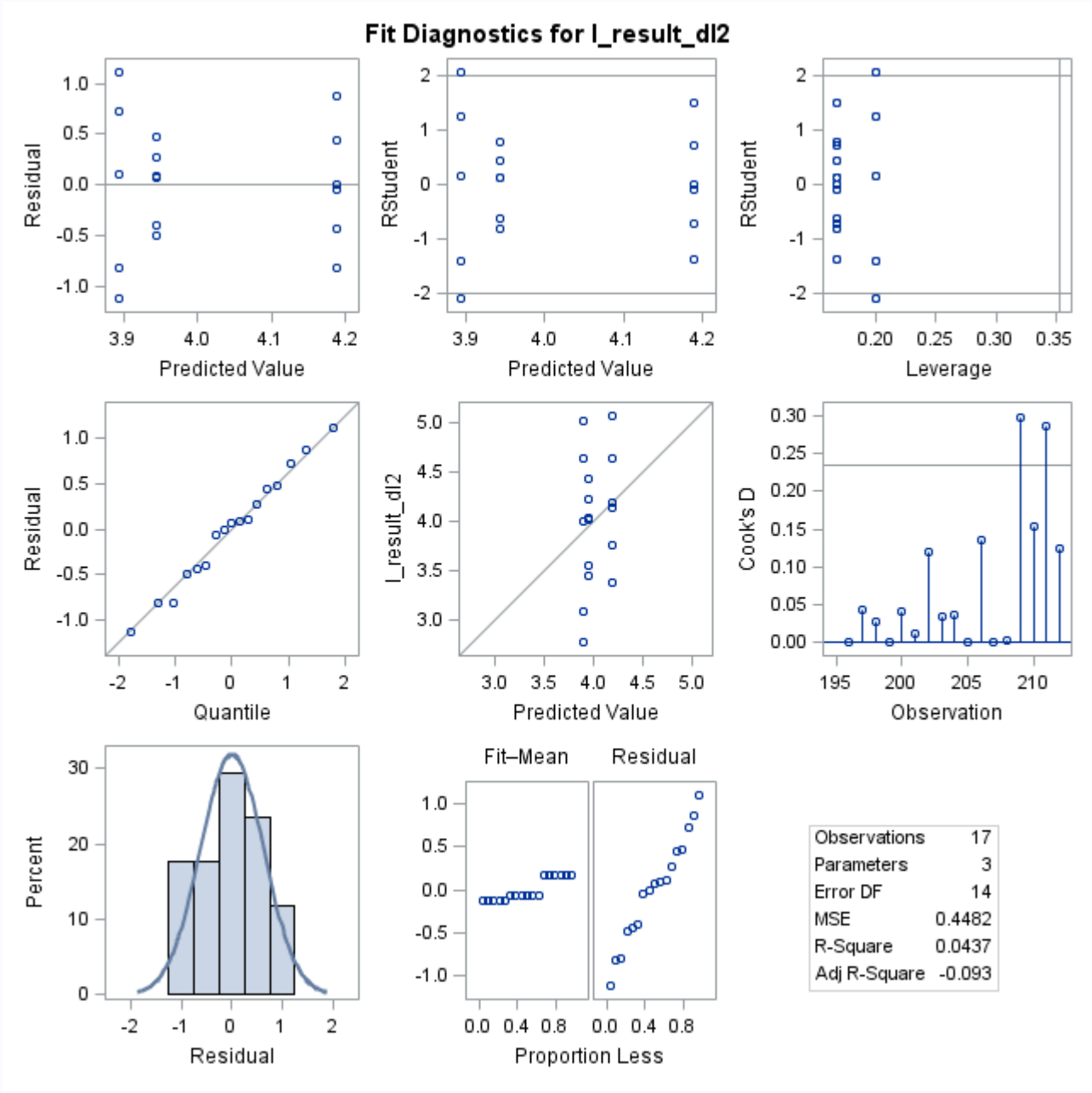
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.28689076	0.14344538	0.32	0.7313
Error	14	6.27419456	0.44815675		
Corrected Total	16	6.56108532			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.043726	16.67295	0.669445	4.015156

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.28689076	0.14344538	0.32	0.7313

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.28689076	0.14344538	0.32	0.7313


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.4482
R-Square 0.0437
Adj R-Square -0.093

Pesticides alpha-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.1024	0.5512	4.48	0.0314
Error	14	1.7236	0.1231		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.36	0.7096
Error	7.7686		

Pesticides alpha-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	3.94339129	0.37855285
Southeast	**6**	4.18889740	0.60589223
Southwest	**5**	3.89278502	0.96464453

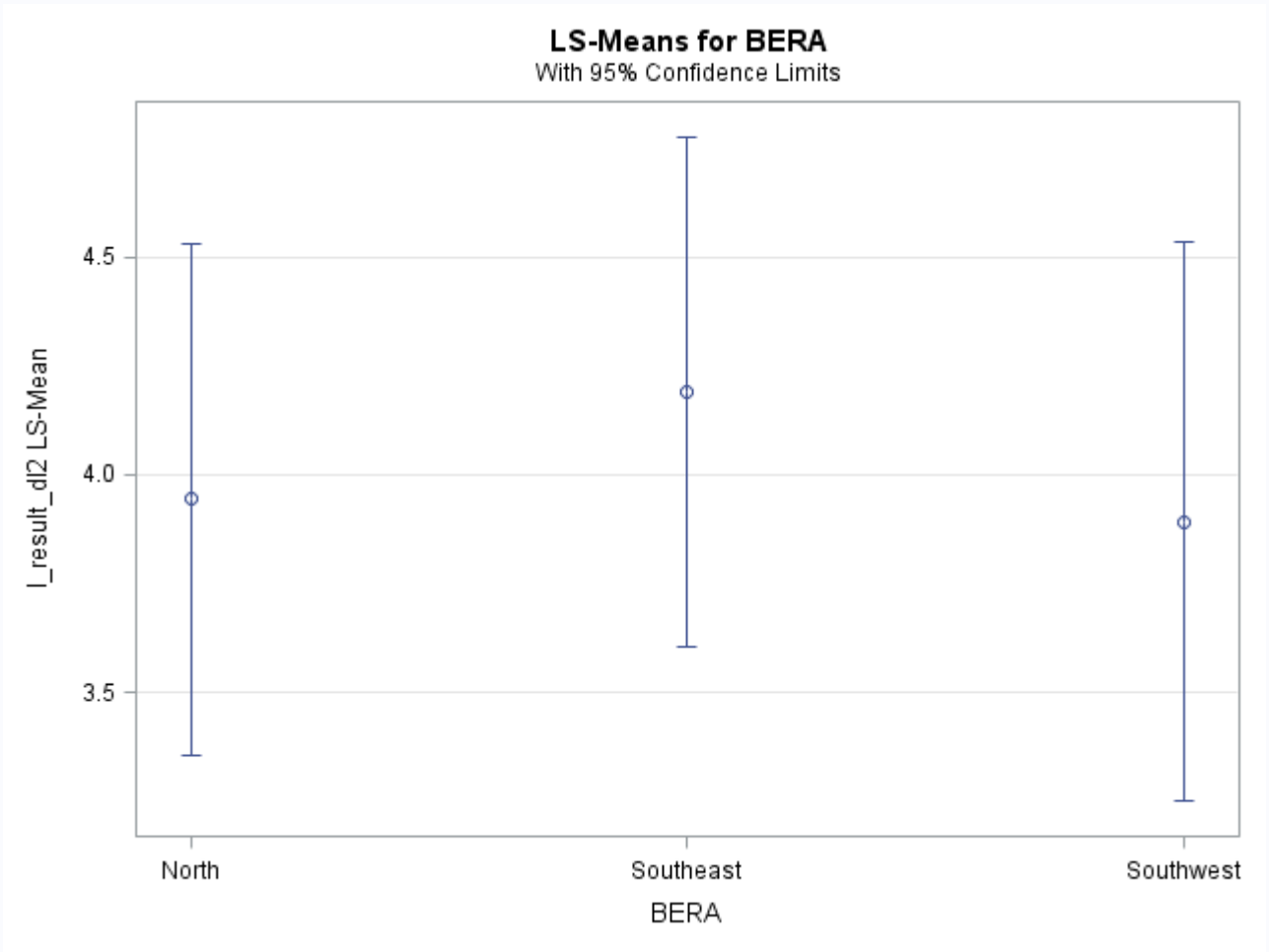
Pesticides alpha-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.94339129	1
Southeast	4.18889740	2
Southwest	3.89278502	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8035	0.9914
2	0.8035		0.7499
3	0.9914	0.7499	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.5
4.0
3.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides beta-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

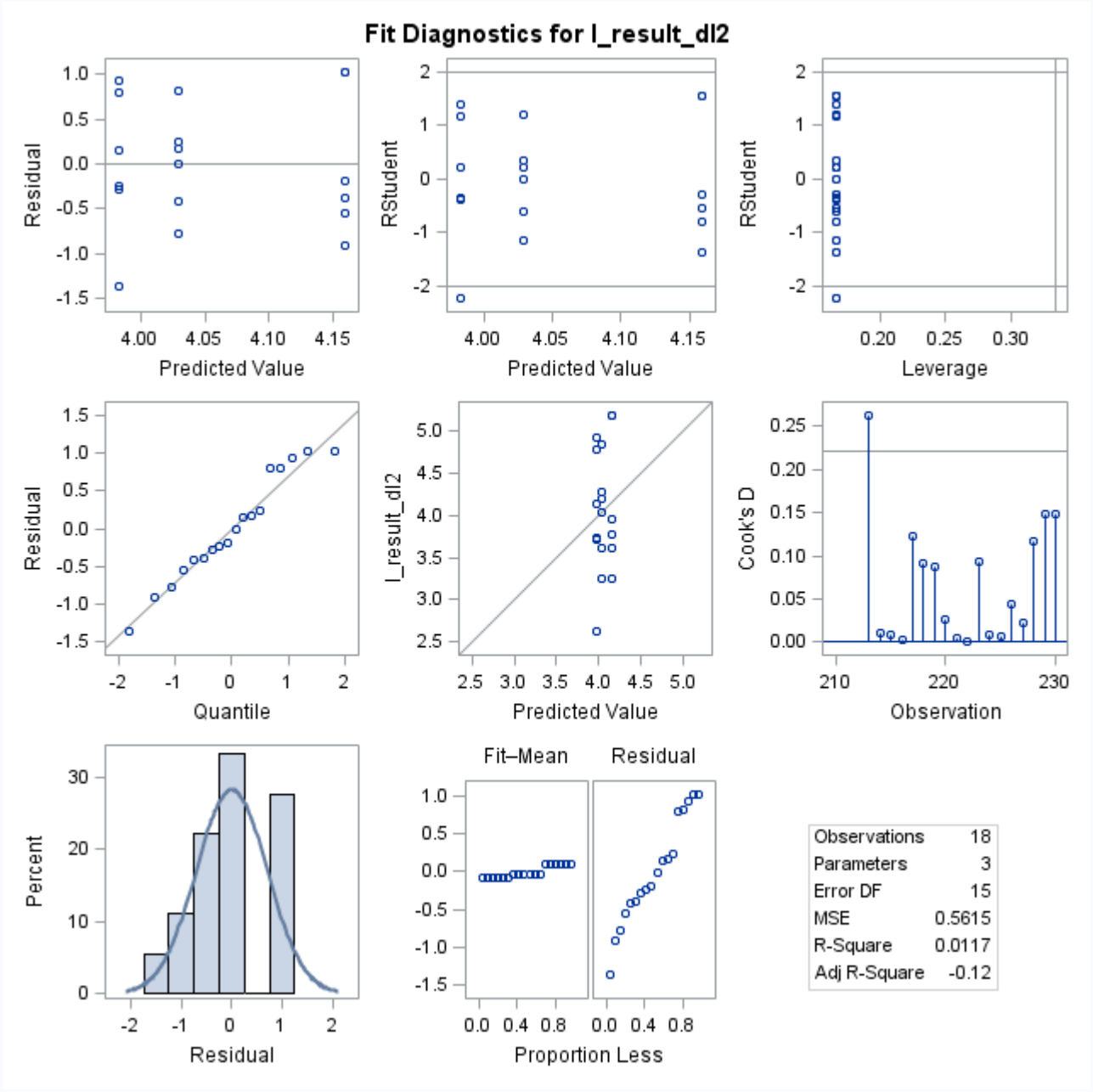
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.09970983	0.04985491	0.09	0.9155
Error	15	8.42319797	0.56154653		
Corrected Total	17	8.52290780			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.011699	18.47060	0.749364	4.057064

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.09970983	0.04985491	0.09	0.9155

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.09970983	0.04985491	0.09	0.9155


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.5615
R-Square 0.0117
Adj R-Square -0.12

Pesticides beta-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.4104	0.2052	0.77	0.4806
Error	15	3.9995	0.2666		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.07	0.9321
Error	9.5826		

Pesticides beta-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	3.98298156	0.83688926
Southeast	**6**	4.02935170	0.55280055
Southwest	**6**	4.15885853	0.82381279

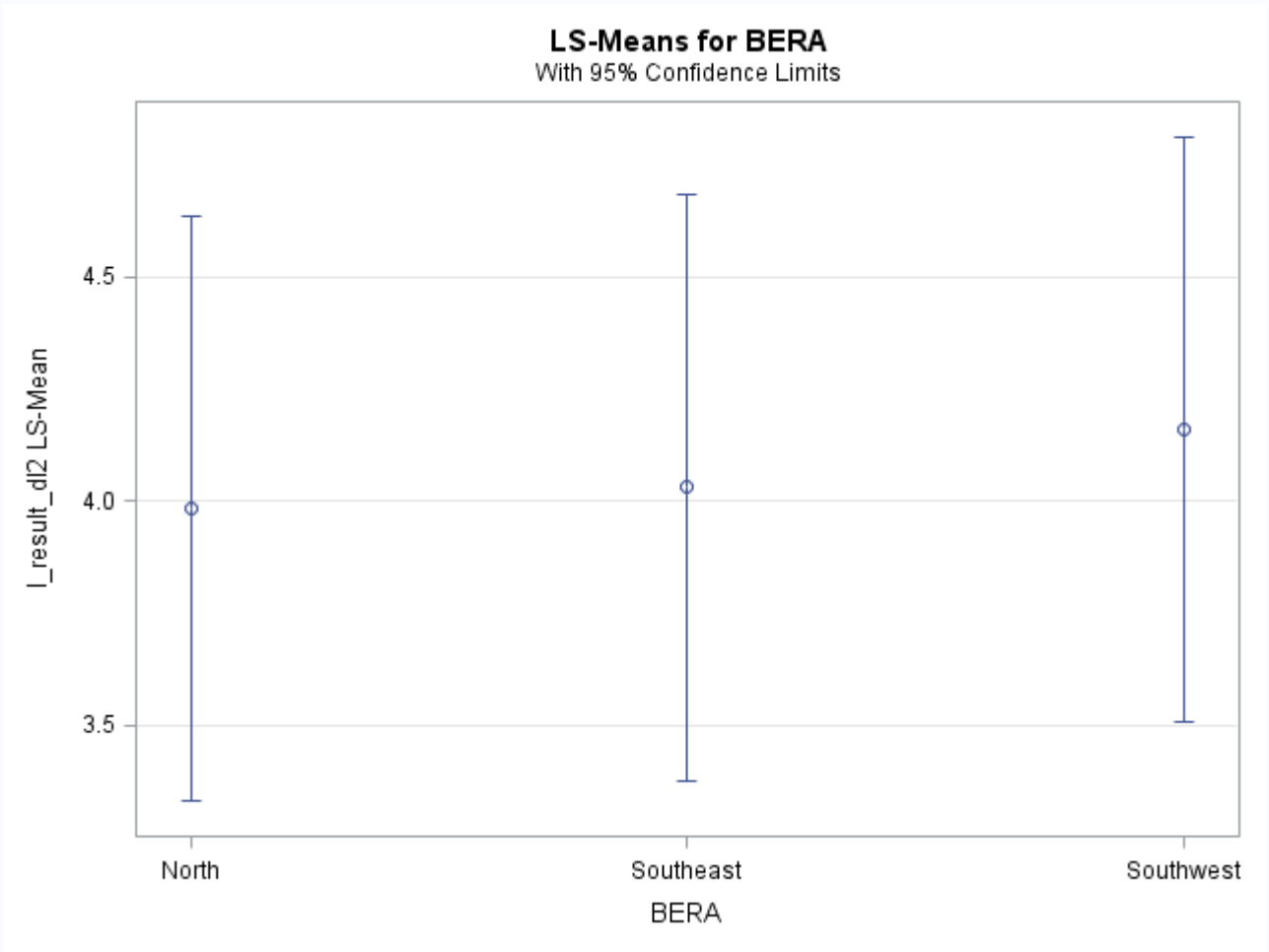
Pesticides beta-BHC
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.98298156	1
Southeast	4.02935170	2
Southwest	4.15885853	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9937	0.9135
2	0.9937		0.9520
3	0.9135	0.9520	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.5
4.0
3.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides cis-Nonachlor
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

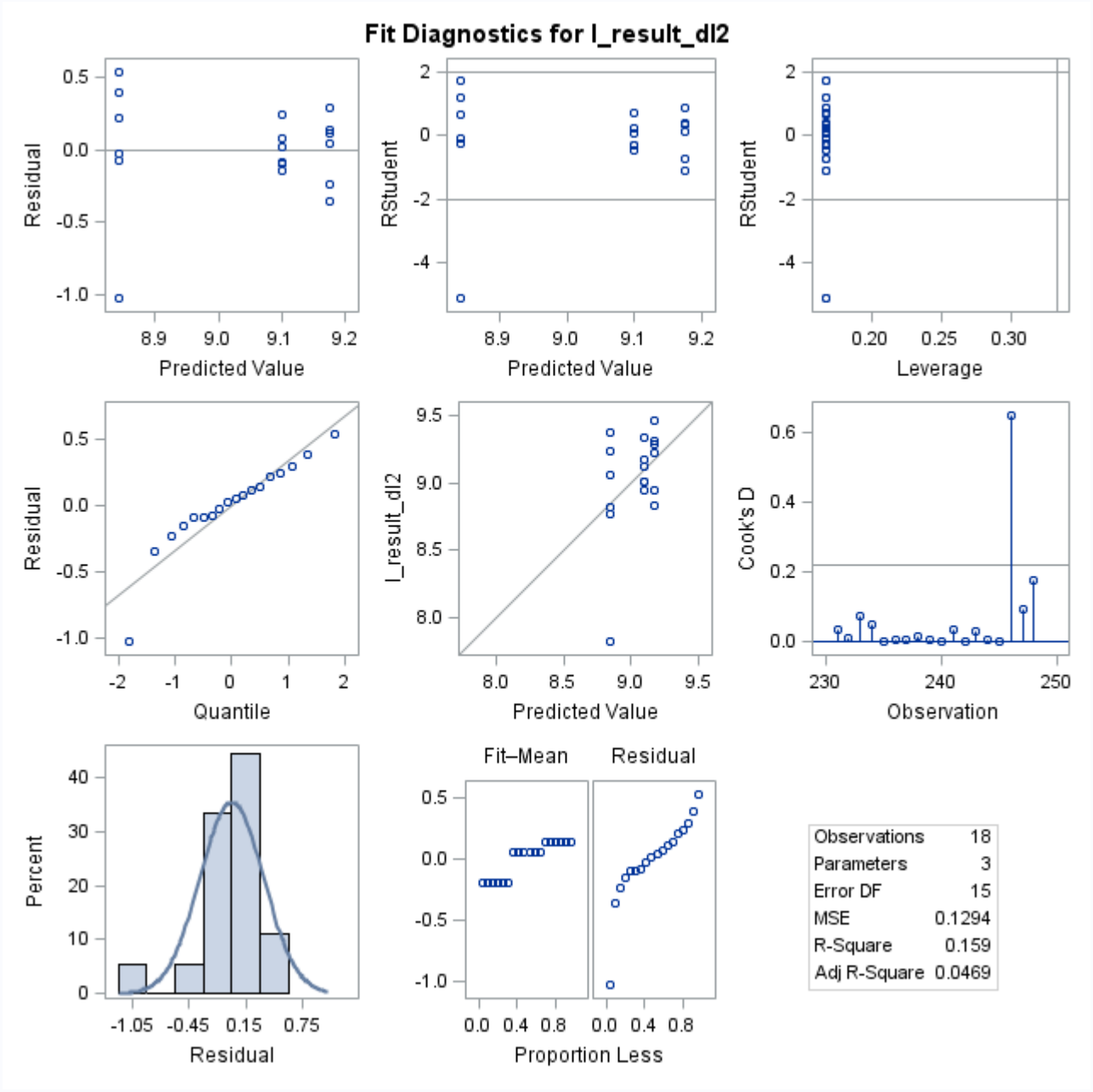
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.36689716	0.18344858	1.42	0.2729
Error	15	1.94065061	0.12937671		
Corrected Total	17	2.30754777			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.158999	3.979167	0.359690	9.039322

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.36689716	0.18344858	1.42	0.2729

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.36689716	0.18344858	1.42	0.2729


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1294
R-Square 0.159
Adj R-Square 0.0469

Pesticides cis-Nonachlor
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2030	0.1015	1.83	0.1946
Error	15	0.8324	0.0555		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.86	0.4557
Error	8.5505		

Pesticides cis-Nonachlor
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	9.17581814	0.24294444
Southeast	**6**	9.09992120	0.14440186
Southwest	**6**	8.84222794	0.55520827

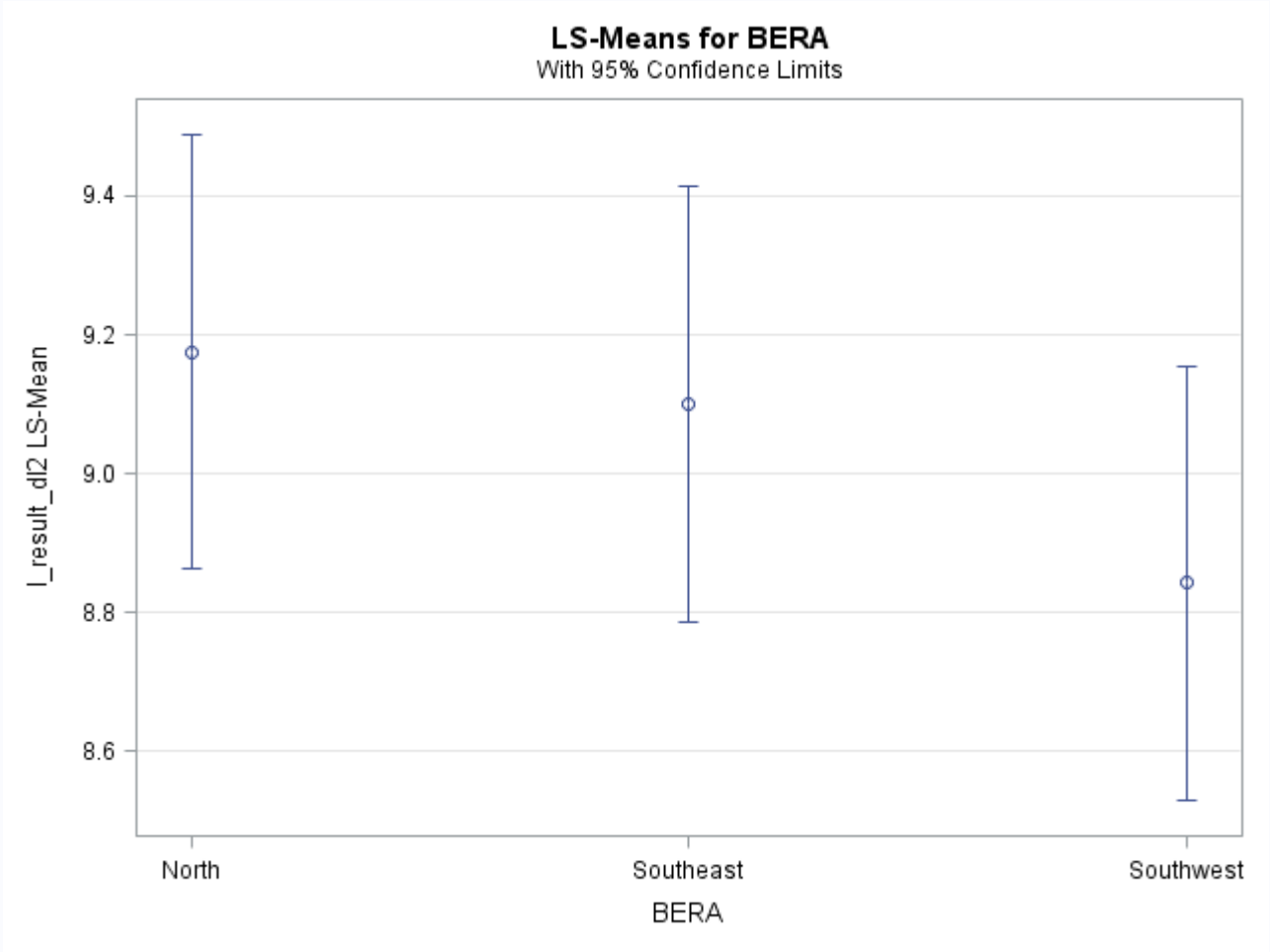
Pesticides cis-Nonachlor
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.17581814	1
Southeast	9.09992120	2
Southwest	8.84222794	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9294	0.2734
2	0.9294		0.4485
3	0.2734	0.4485	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.4
9.2
9.0
8.8
8.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PAHs Total LMW PAHs
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

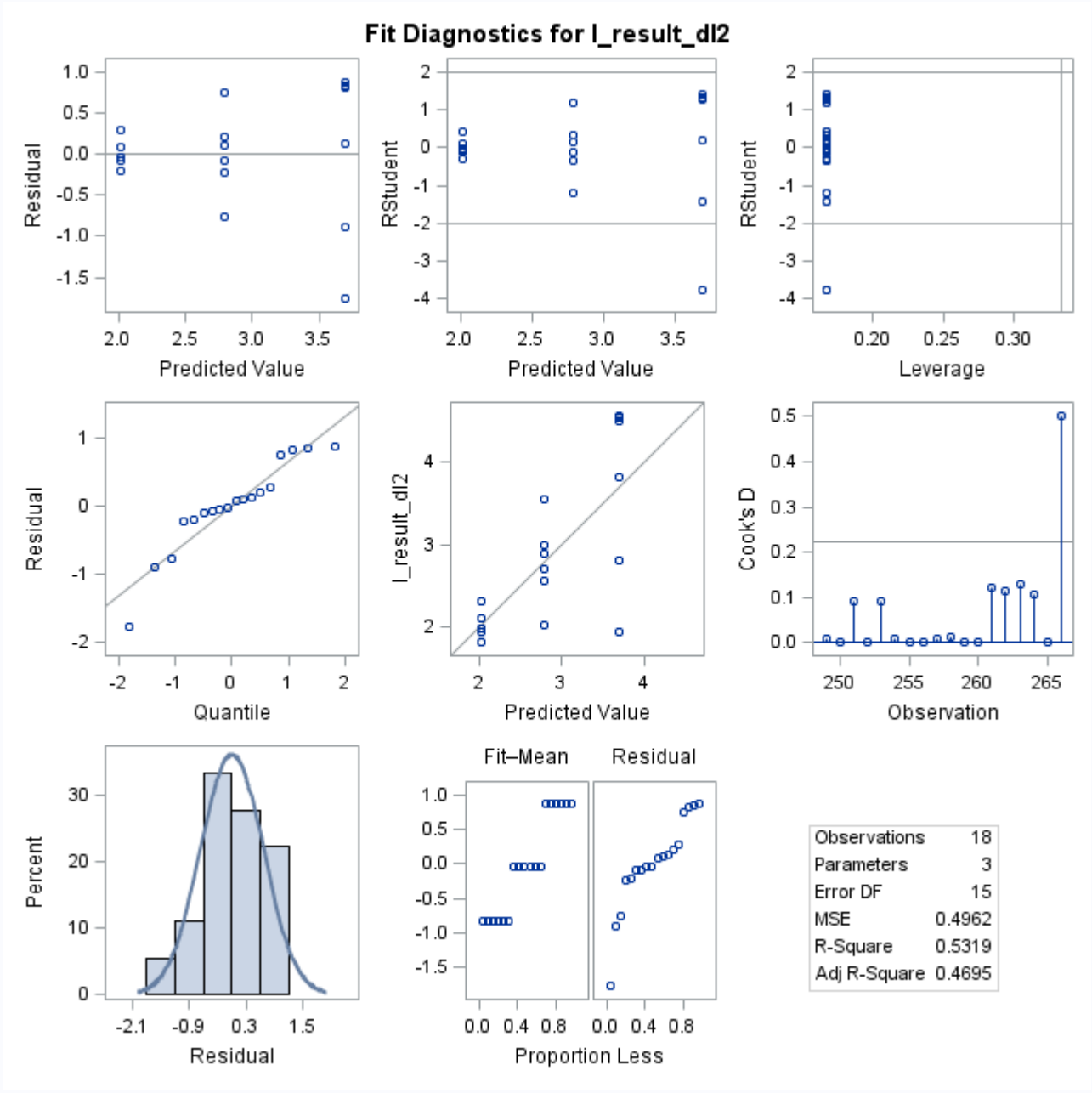
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	8.45723775	4.22861888	8.52	0.0034
Error	15	7.44250375	0.49616692		
Corrected Total	17	15.89974151			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.531910	24.85695	0.704391	2.833779

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	8.45723775	4.22861888	8.52	0.0034

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	8.45723775	4.22861888	8.52	0.0034


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4962
R-Square 0.5319
Adj R-Square 0.4695

PAHs Total LMW PAHs
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	3.2800	1.6400	4.02	0.0401
Error	15	6.1245	0.4083		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	11.54	0.0052
Error	7.4762		

PAHs Total LMW PAHs
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	2.78803519	0.50081906
Southeast	**6**	2.01808080	0.16893875
Southwest	**6**	3.69522173	1.09960935

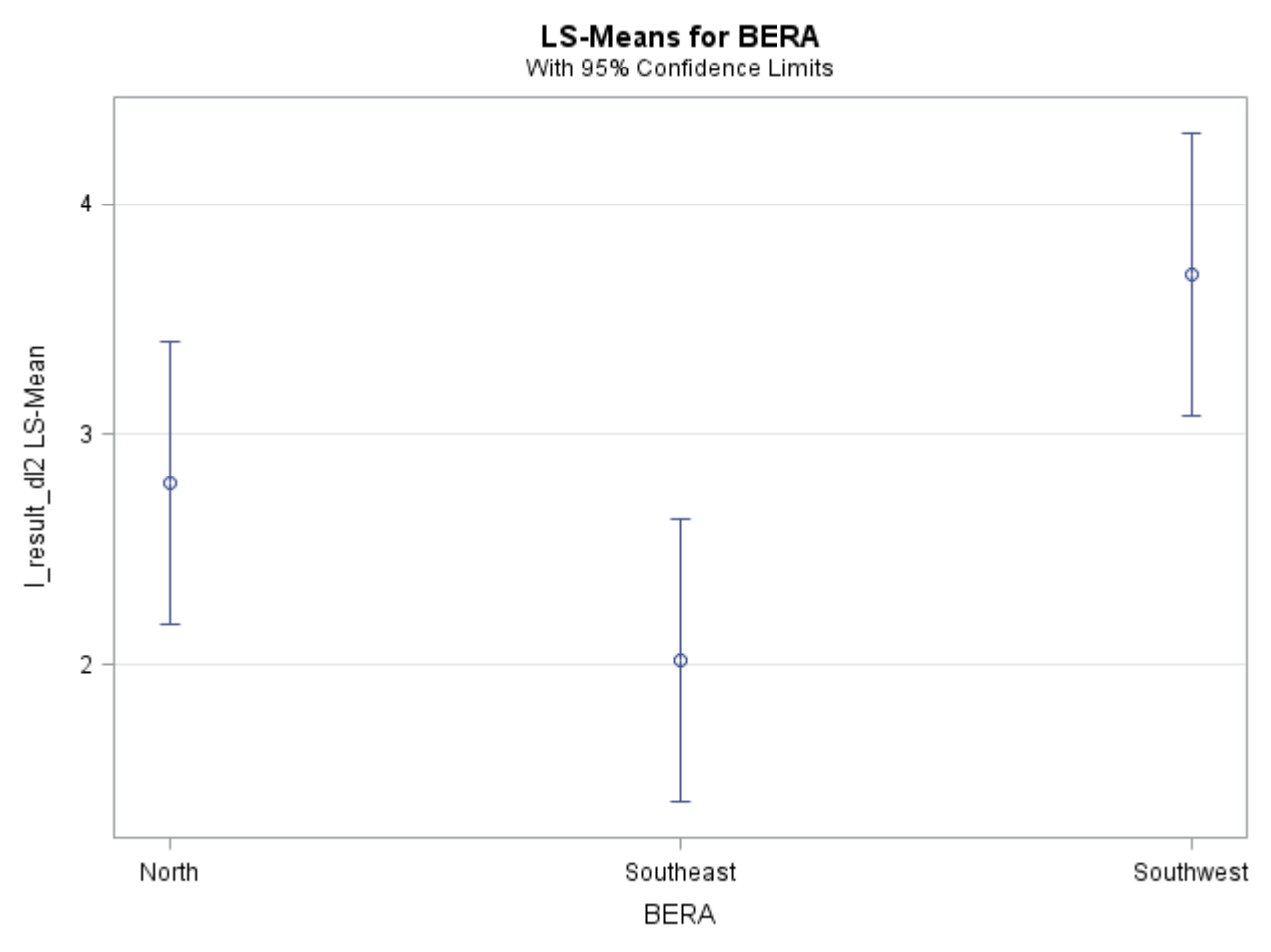
PAHs Total LMW PAHs
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.78803519	1
Southeast	2.01808080	2
Southwest	3.69522173	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1748	0.0981
2	0.1748		0.0024
3	0.0981	0.0024	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4
3
2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PAHs Total PAH
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

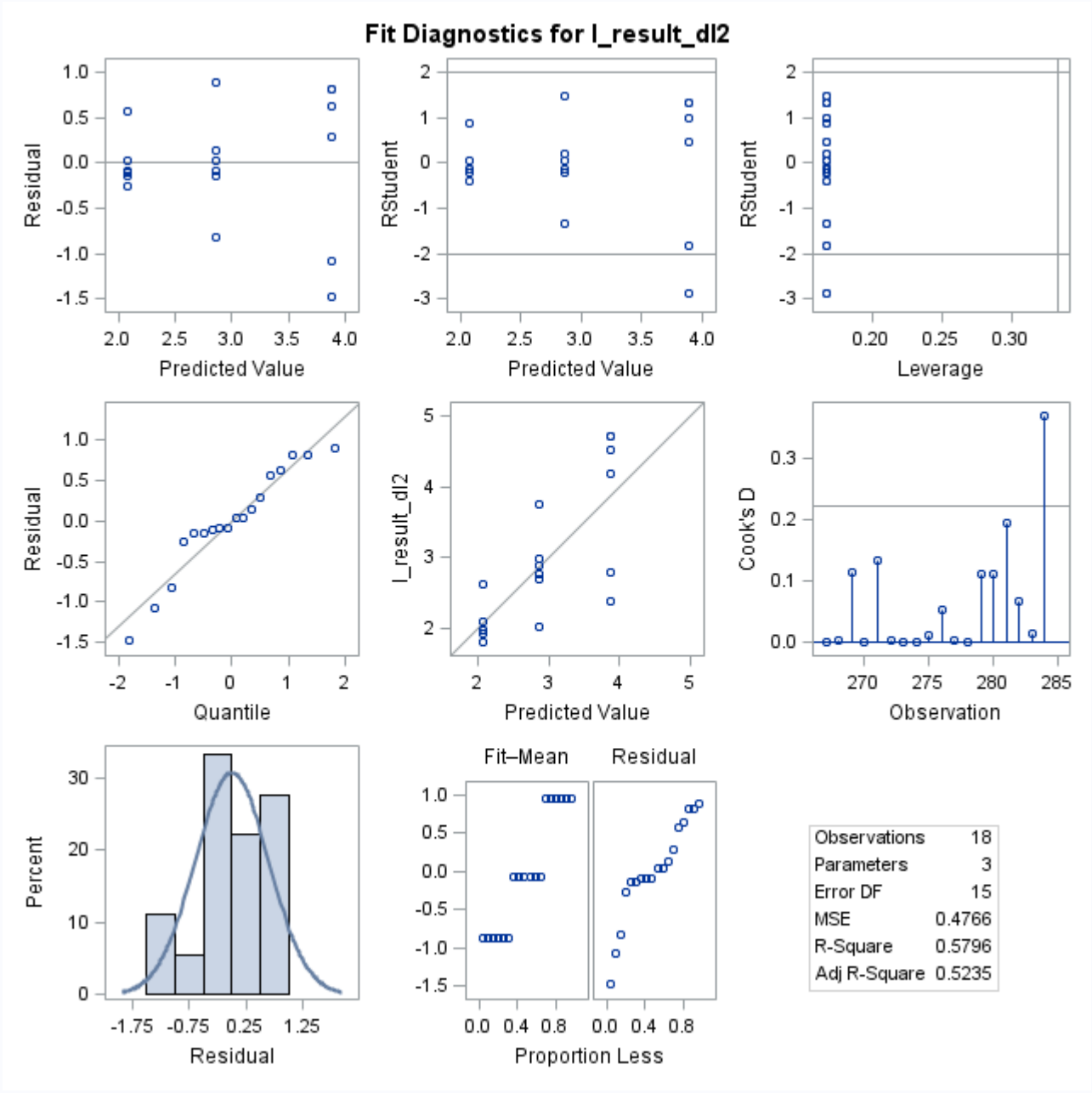
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	9.85455232	4.92727616	10.34	0.0015
Error	15	7.14853281	0.47656885		
Corrected Total	17	17.00308513			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.579574	23.50012	0.690340	2.937601

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	9.85455232	4.92727616	10.34	0.0015

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	9.85455232	4.92727616	10.34	0.0015


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4766
R-Square 0.5796
Adj R-Square 0.5235

PAHs Total PAH
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	2.0672	1.0336	4.35	0.0324
Error	15	3.5650	0.2377		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	11.08	0.0044
Error	8.4134		

PAHs Total PAH
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	2.85739921	0.55375616
Southeast	**6**	2.07415951	0.29274622
Southwest	**6**	3.88124386	1.01850888

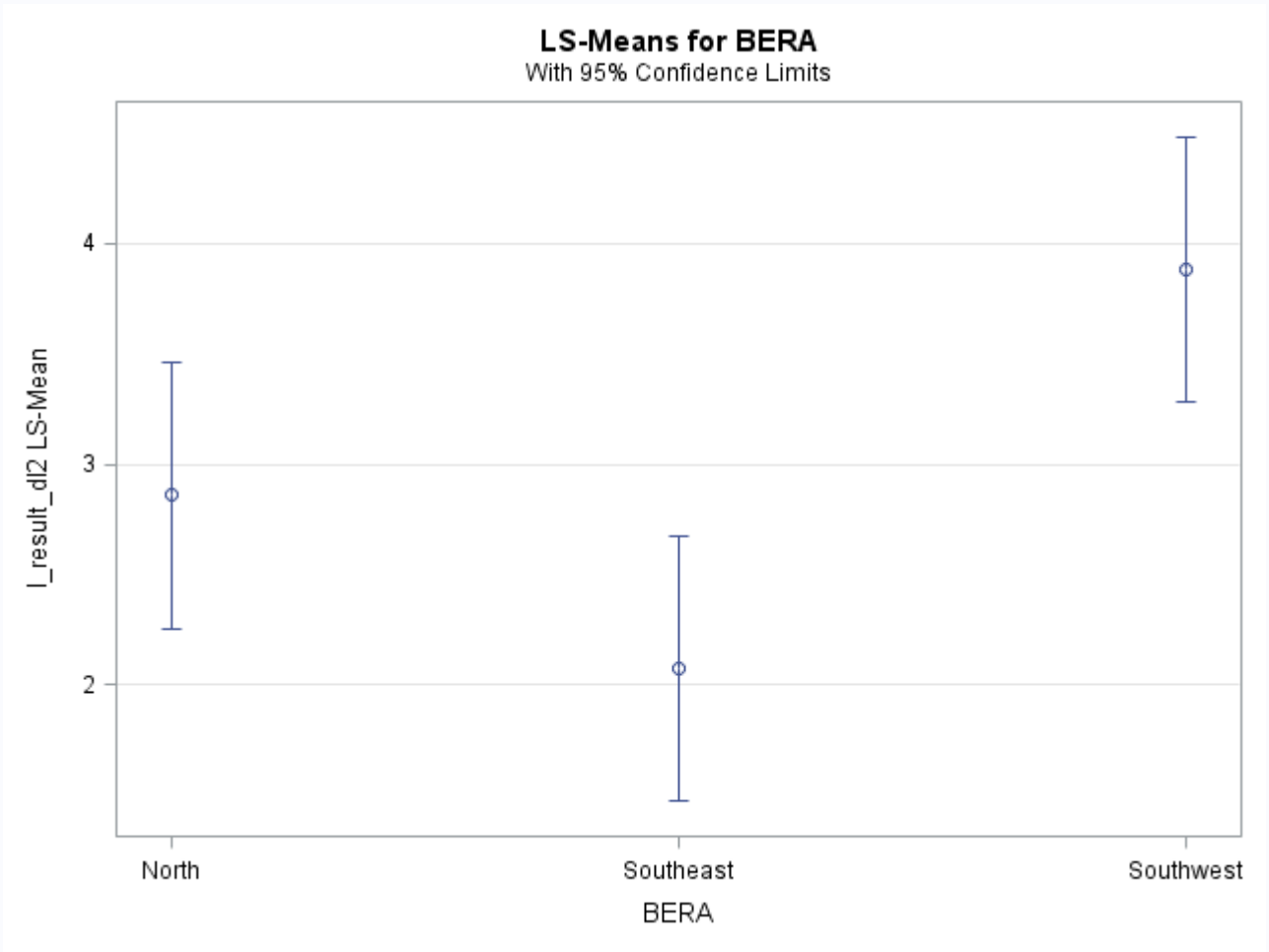
PAHs Total PAH
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.85739921	1
Southeast	2.07415951	2
Southwest	3.88124386	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1552	0.0528
2	0.1552		0.0011
3	0.0528	0.0011	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4
3
2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Lipids Lipids
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

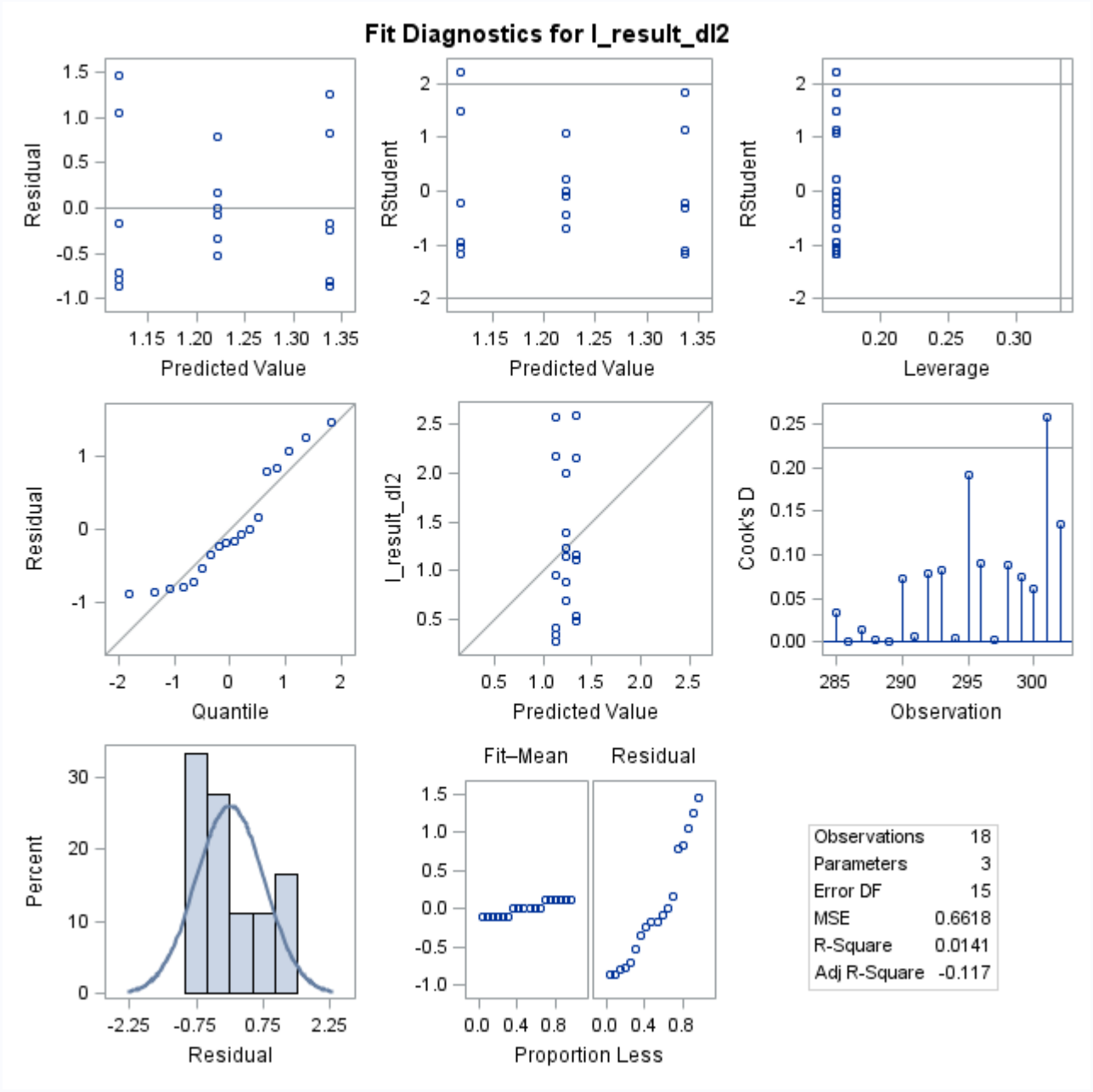
Dependent Variable: l_result_dl2
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.14235847	0.07117923	0.11	0.8987
Error	15	9.92670167	0.66178011		
Corrected Total	17	10.06906014			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.014138	66.36796	0.813499	1.225740

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.14235847	0.07117923	0.11	0.8987

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.14235847	0.07117923	0.11	0.8987


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.6618
R-Square 0.0141
Adj R-Square -0.117

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.4450	0.7225	2.42	0.1230
Error	15	4.4828	0.2989		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.08	0.9267
Error	8.8266		

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

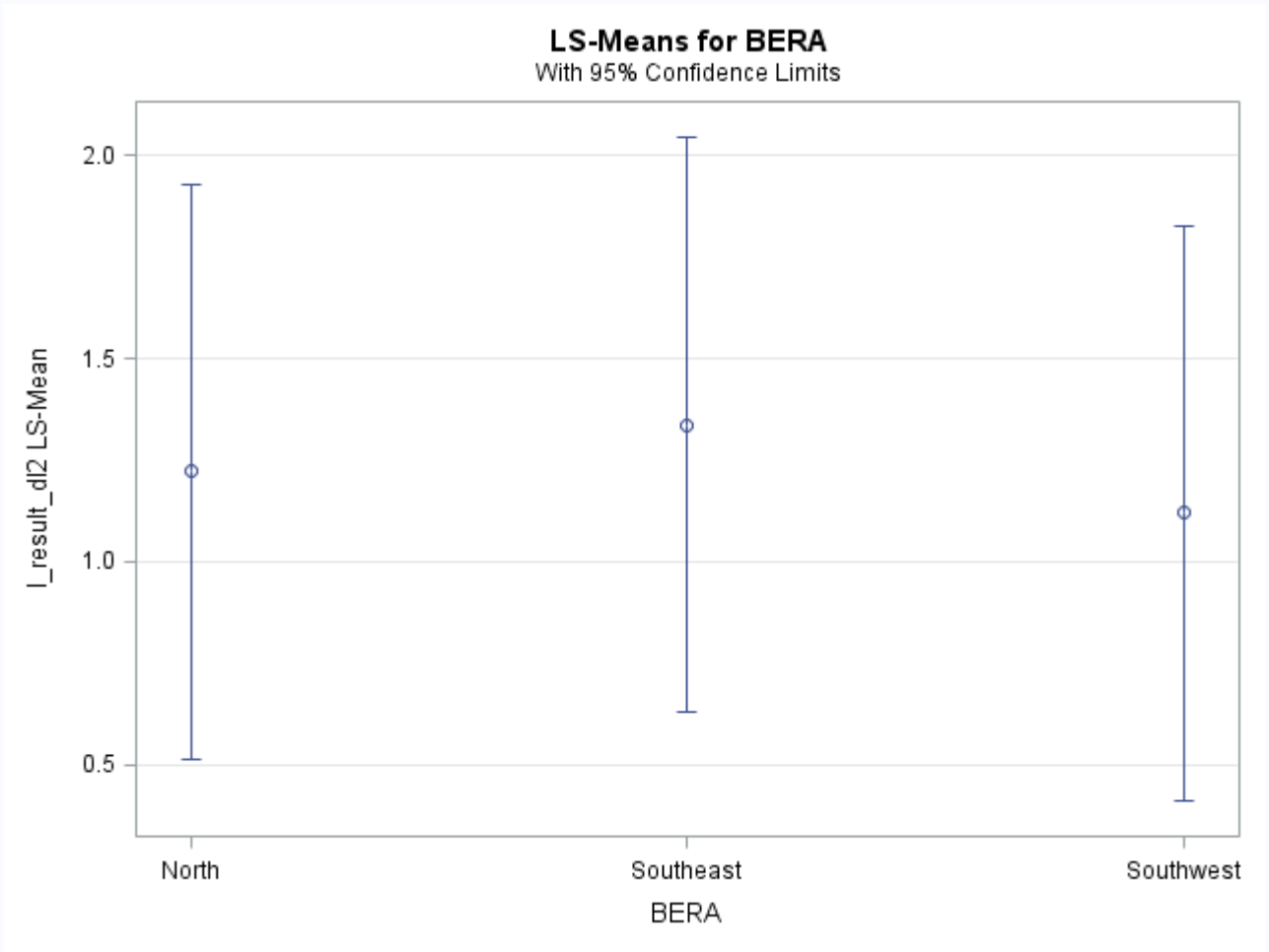
Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	1.22126136	0.45605166
Southeast	**6**	1.33682879	0.86660081
Southwest	**6**	1.11913027	1.01309439

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	1.22126136	1
Southeast	1.33682879	2
Southwest	1.11913027	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9672	0.9743
2	0.9672		0.8892
3	0.9743	0.8892	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
2.0
1.5
1.0
0.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Arsenic
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

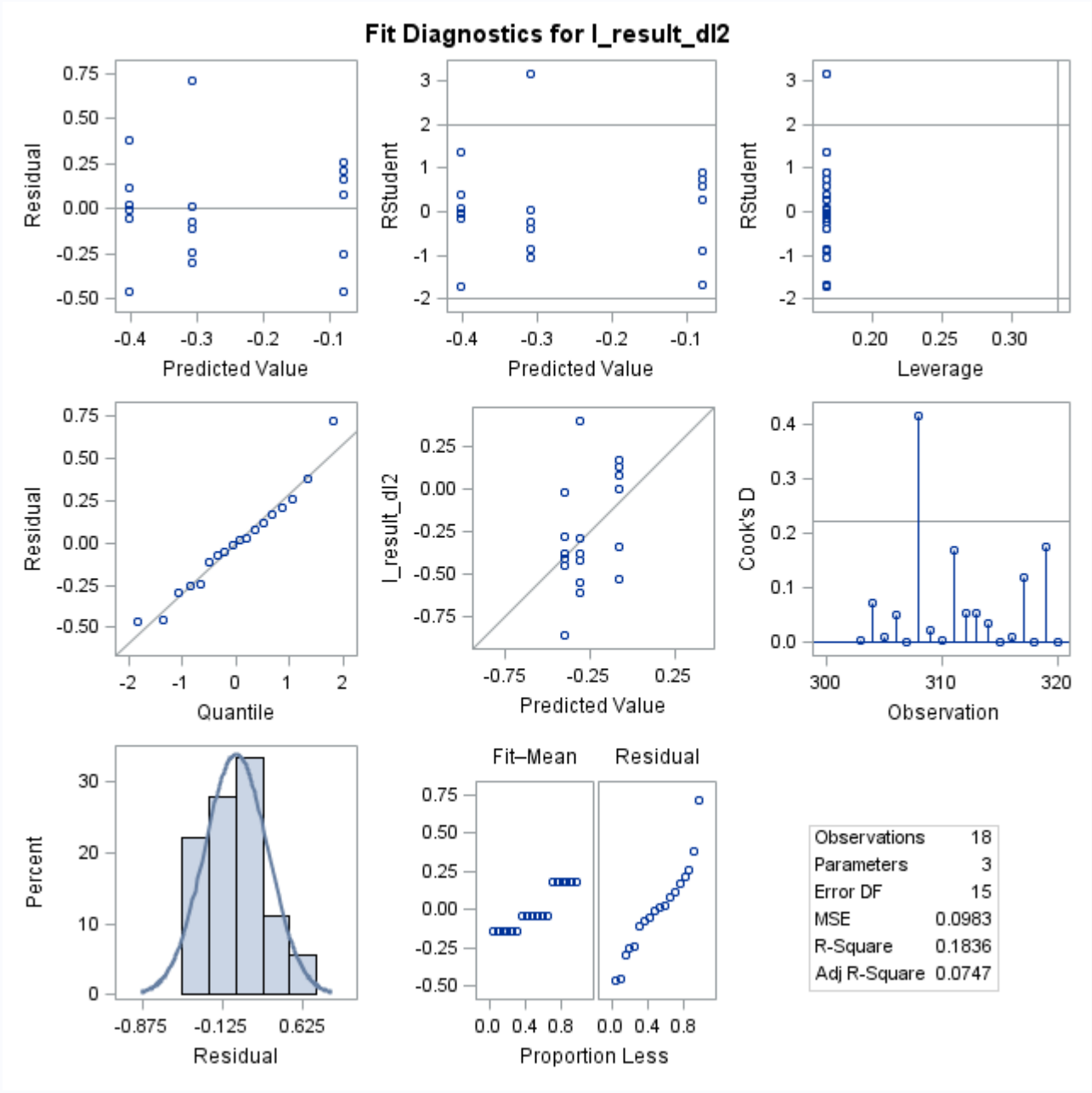
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.33158267	0.16579133	1.69	0.2184
Error	15	1.47440654	0.09829377		
Corrected Total	17	1.80598921			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.183602	-118.5844	0.313518	-0.264384

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.33158267	0.16579133	1.69	0.2184

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.33158267	0.16579133	1.69	0.2184


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.0983
R-Square 0.1836
Adj R-Square 0.0747

Metals Arsenic
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00896	0.00448	0.25	0.7795
Error	15	0.2654	0.0177		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.90	0.2000
Error	9.8665		

Metals Arsenic
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	-0.30931282	0.36862485
Southeast	**6**	-0.08030941	0.28882170
Southwest	**6**	-0.40353042	0.27491644

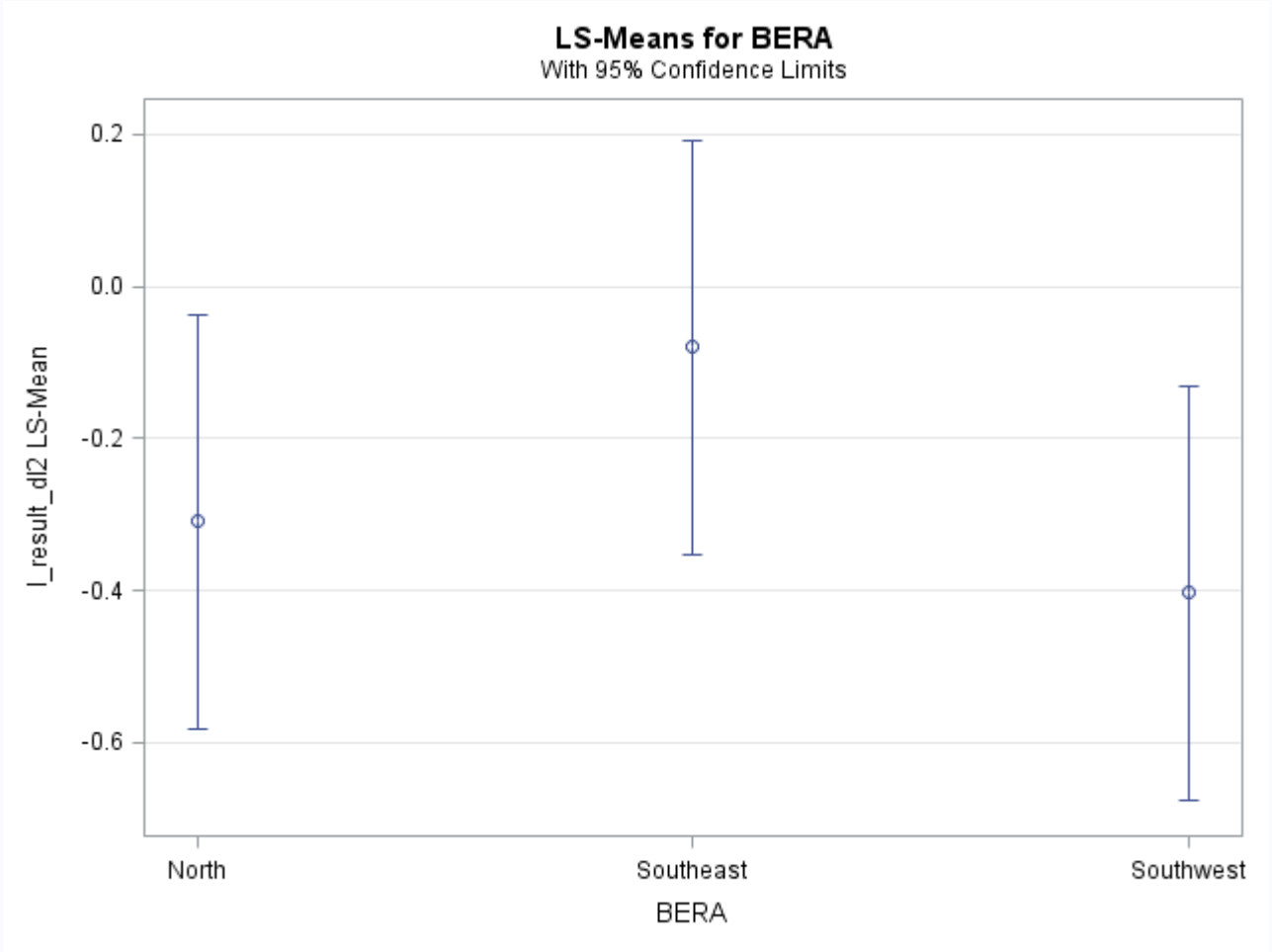
Metals Arsenic
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.30931282	1
Southeast	-0.08030941	2
Southwest	-0.40353042	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4353	0.8626
2	0.4353		0.2079
3	0.8626	0.2079	


LS-Means for BERA
With 95% Confidence Limits
0.2
0.0
-0.2
-0.4
-0.6
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Copper
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

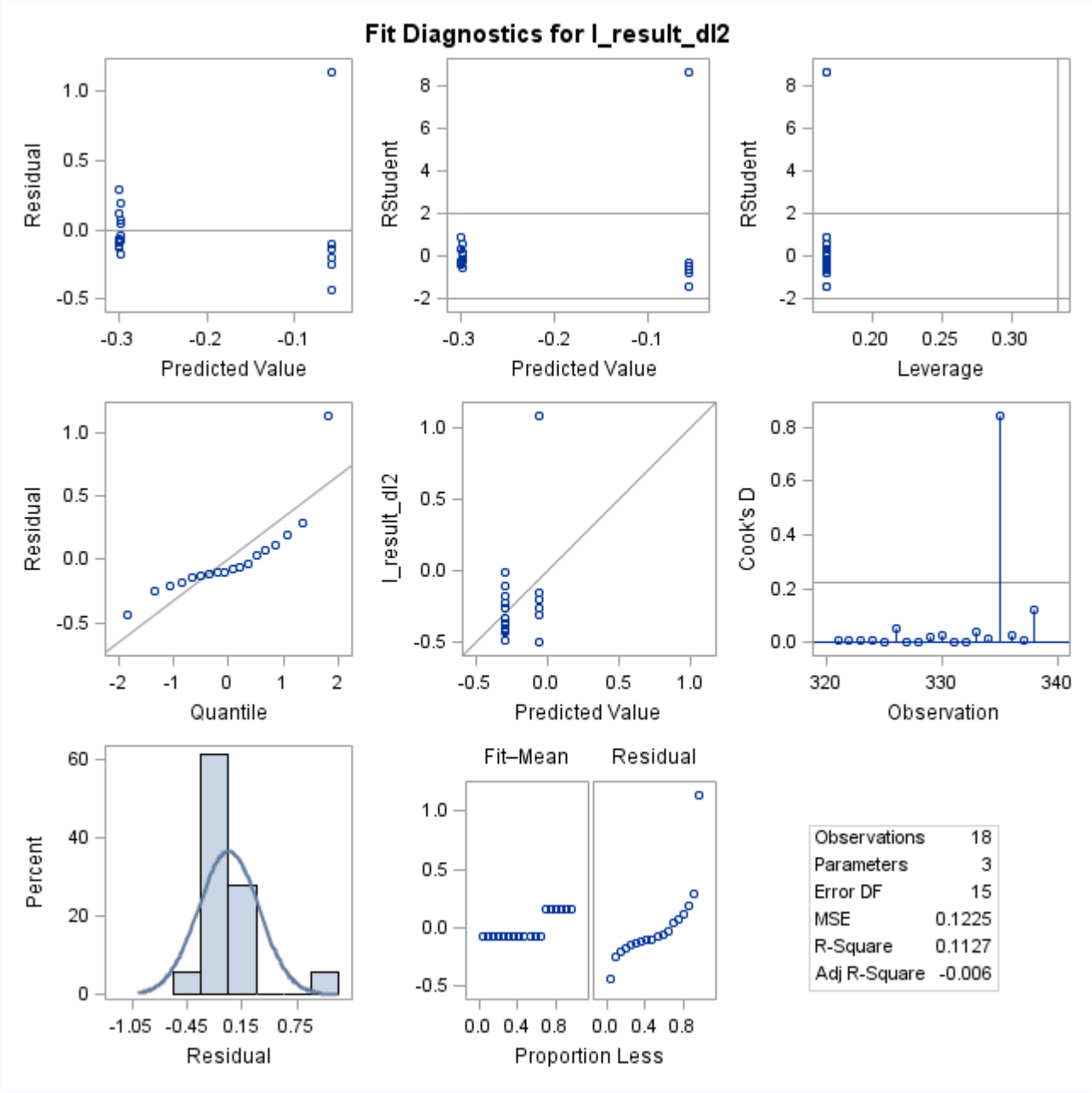
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.23335360	0.11667680	0.95	0.4080
Error	15	1.83772894	0.12251526		
Corrected Total	17	2.07108253			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.112672	-160.3329	0.350022	-0.218309

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.23335360	0.11667680	0.95	0.4080

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.23335360	0.11667680	0.95	0.4080


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1225
R-Square 0.1127
Adj R-Square -0.006

Metals Copper
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2518	0.1259	1.48	0.2592
Error	15	1.2766	0.0851		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.49	0.6298
Error	8.9147		

Metals Copper
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	-0.30018178	0.16548586
Southeast	**6**	-0.29745170	0.13041803
Southwest	**6**	-0.05729488	0.56846403

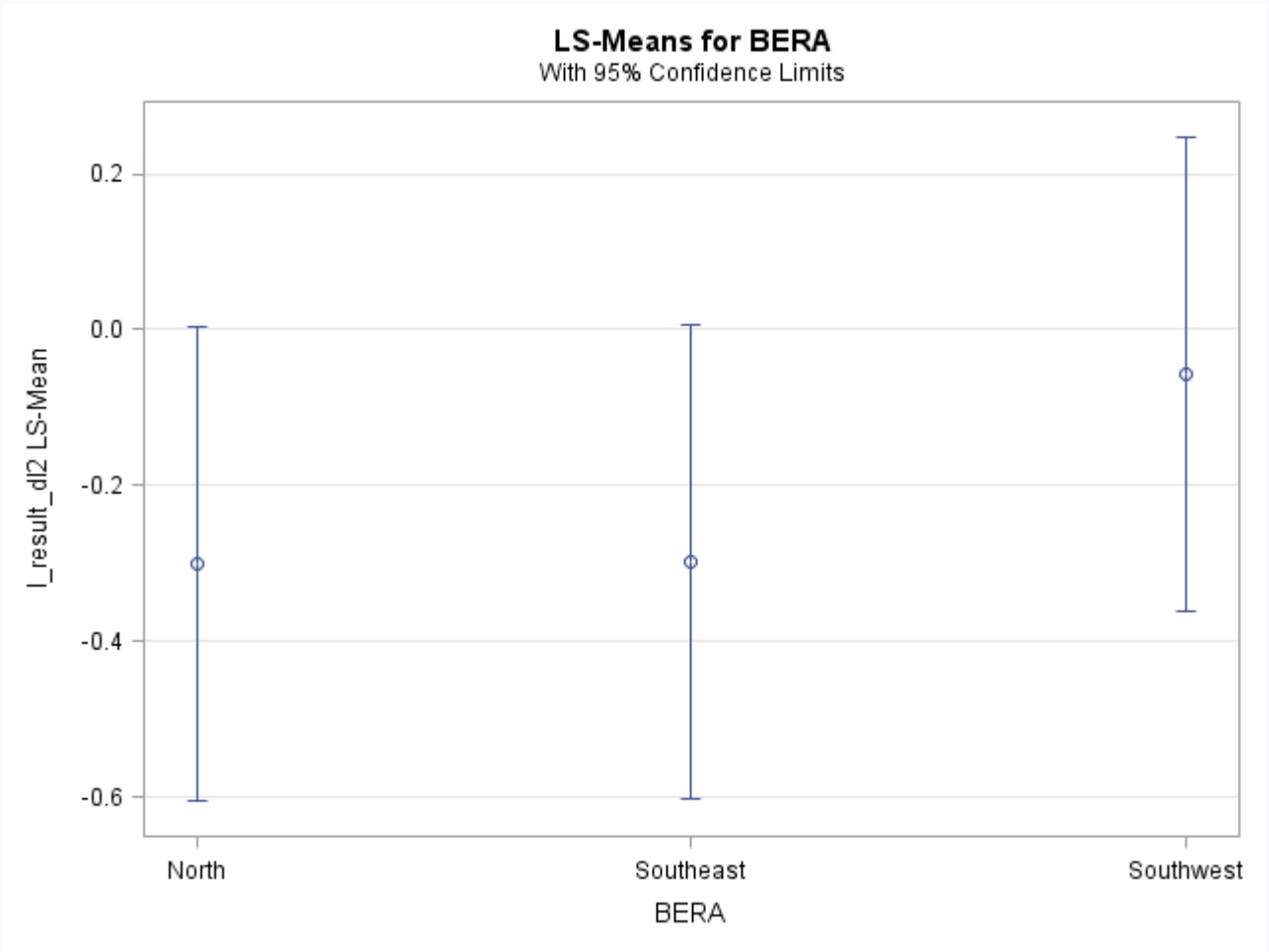
Metals Copper
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.30018178	1
Southeast	-0.29745170	2
Southwest	-0.05729488	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9999	0.4701
2	0.9999		0.4777
3	0.4701	0.4777	


LS-Means for BERA
With 95% Confidence Limits
0.2
0.0
-0.2
-0.4
-0.6
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Lead
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Lead
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

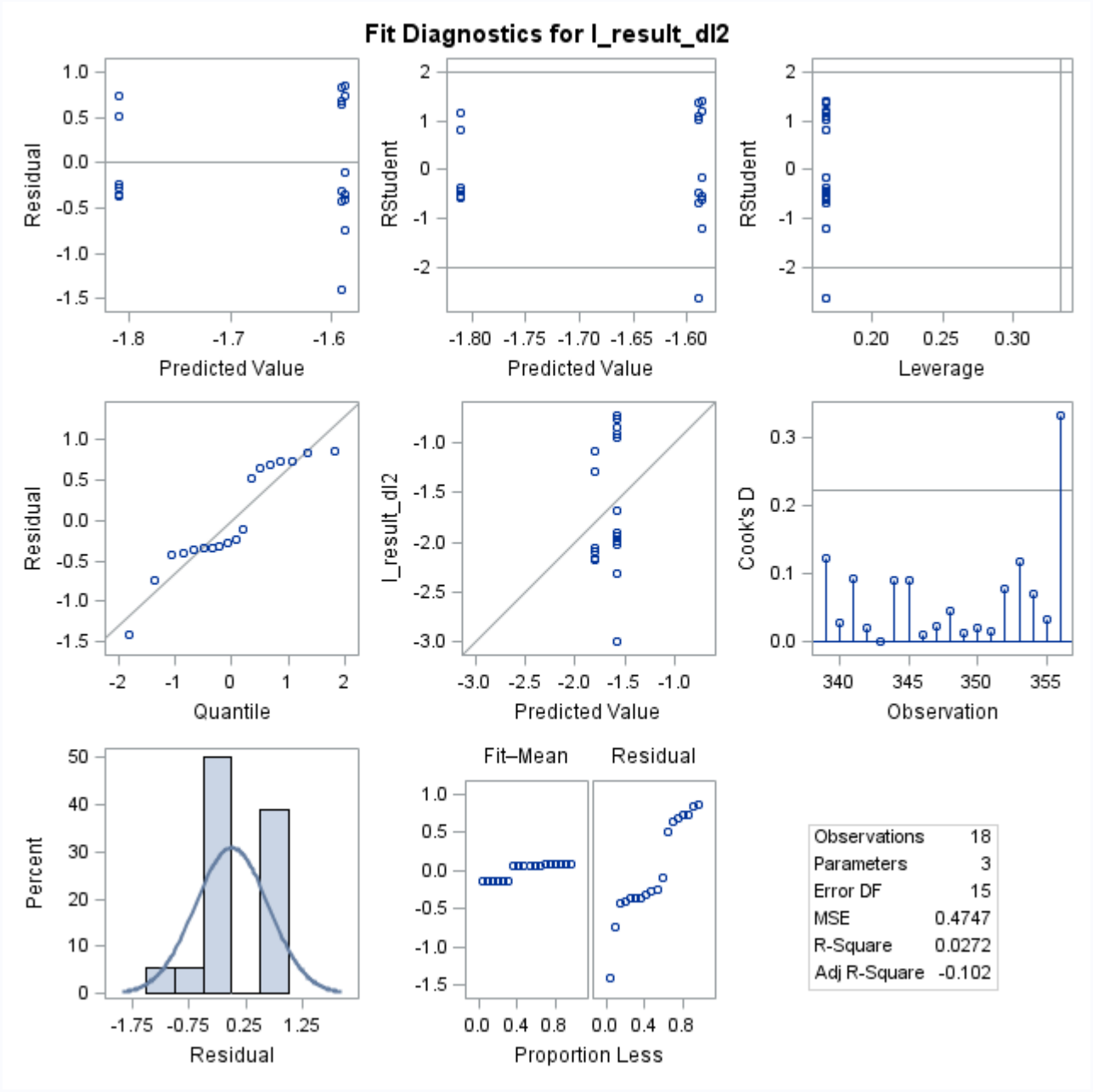
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.19923465	0.09961732	0.21	0.8130
Error	15	7.12022383	0.47468159		
Corrected Total	17	7.31945848			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.027220	-41.44687	0.688971	-1.662300

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.19923465	0.09961732	0.21	0.8130

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.19923465	0.09961732	0.21	0.8130


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4747
R-Square 0.0272
Adj R-Square -0.102

Metals Lead
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.5918	0.2959	1.52	0.2509
Error	15	2.9227	0.1948		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.27	0.7654
Error	9.5091		

Metals Lead
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	-1.58611434	0.64988466
Southeast	**6**	-1.81107133	0.48810165
Southwest	**6**	-1.58971481	0.87375710

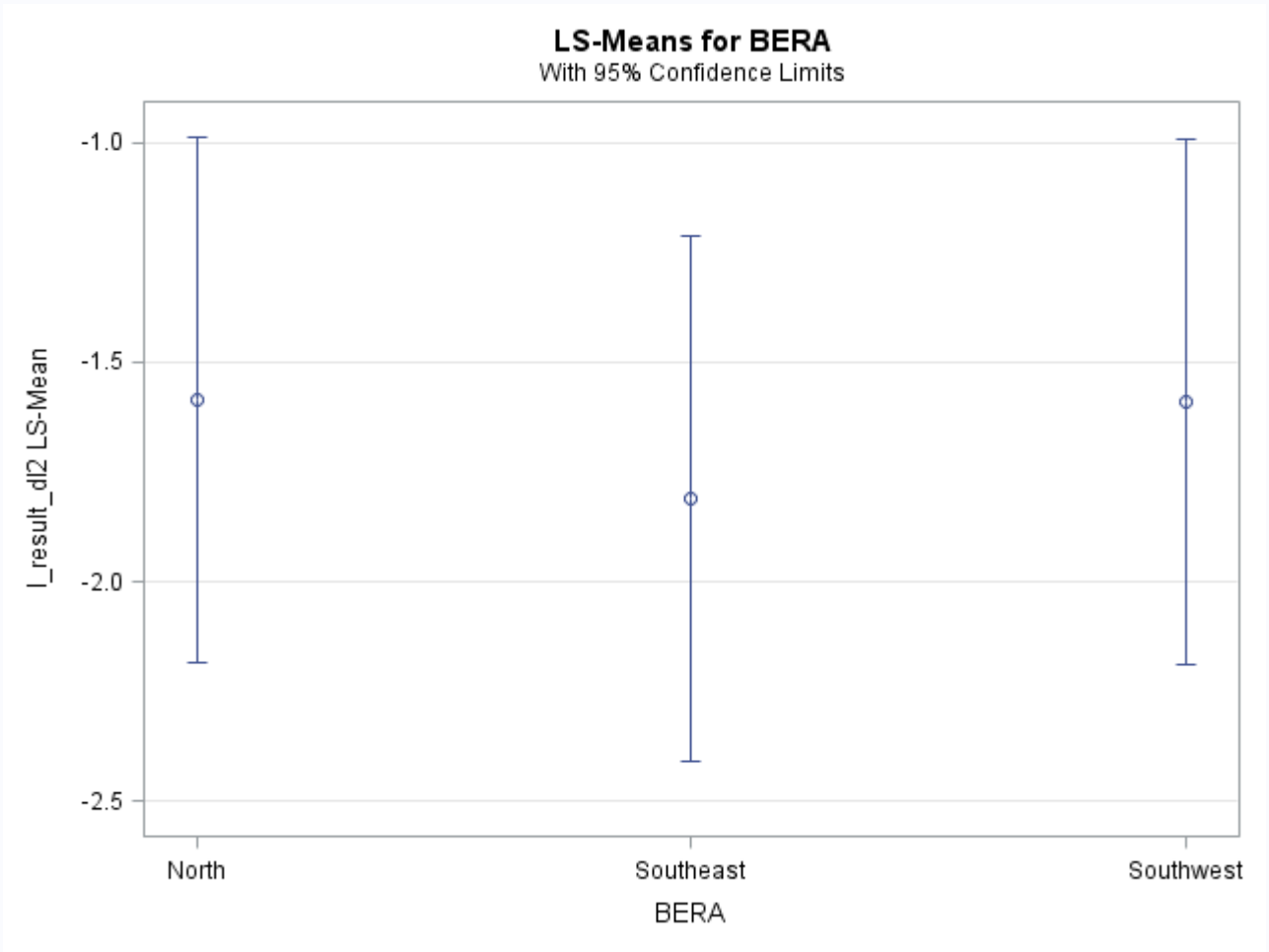
Metals Lead
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.58611434	1
Southeast	-1.81107133	2
Southwest	-1.58971481	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8402	1.0000
2	0.8402		0.8448
3	1.0000	0.8448	


LS-Means for BERA
With 95% Confidence Limits
-1.0
-1.5
-2.0
-2.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

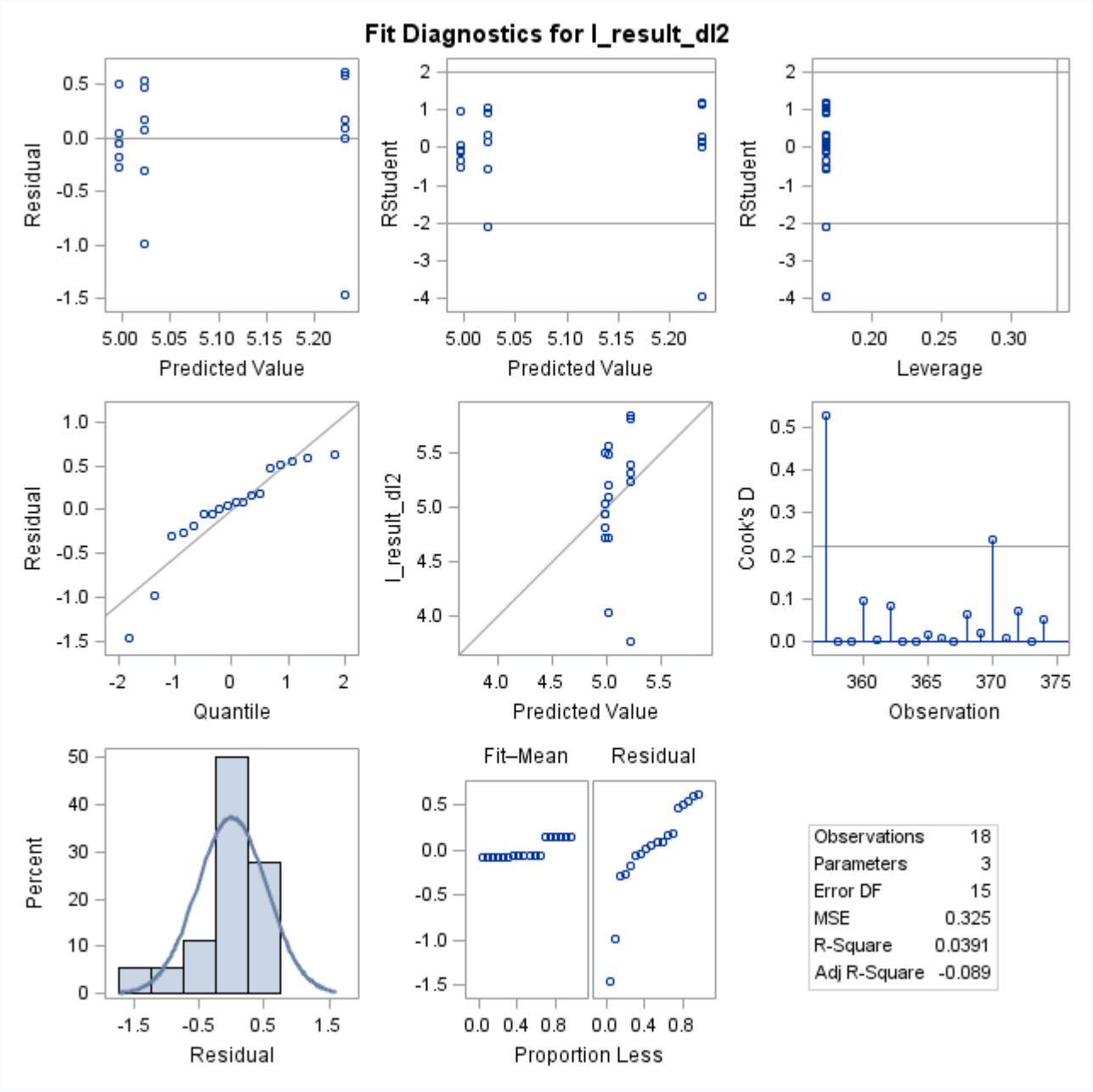
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.19852606	0.09926303	0.31	0.7413
Error	15	4.87494097	0.32499606		
Corrected Total	17	5.07346703			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.039130	11.21402	0.570084	5.083672

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.19852606	0.09926303	0.31	0.7413

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.19852606	0.09926303	0.31	0.7413


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.325
R-Square 0.0391
Adj R-Square -0.089

Metals Mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.5373	0.2686	0.97	0.4000
Error	15	4.1340	0.2756		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.24	0.7953
Error	8.4228		

Metals Mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	5.23133667	0.76211242
Southeast	**6**	4.99604709	0.27025129
Southwest	**6**	5.02363287	0.56668959

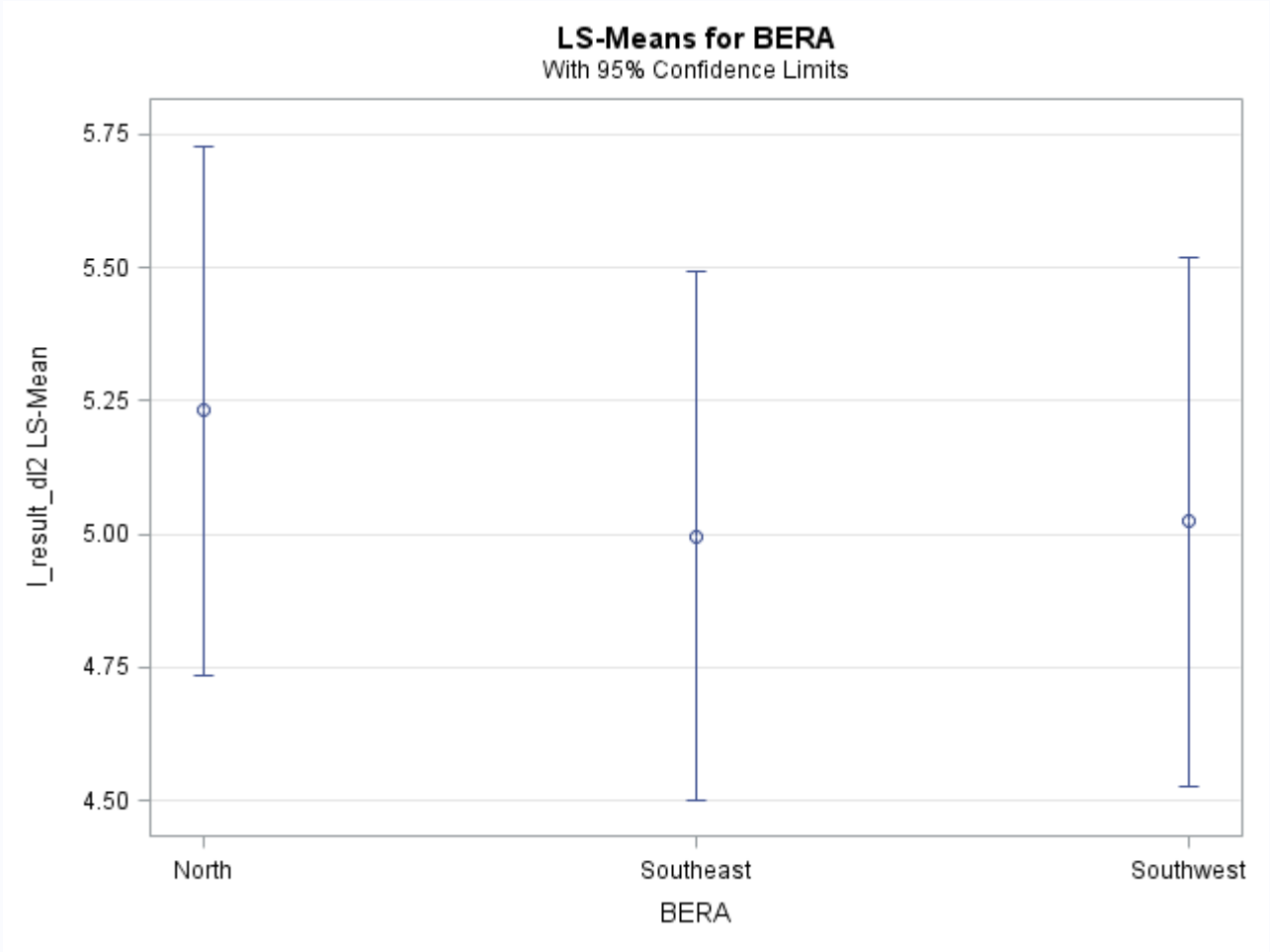
Metals Mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	5.23133667	1
Southeast	4.99604709	2
Southwest	5.02363287	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7586	0.8056
2	0.7586		0.9961
3	0.8056	0.9961	


LS-Means for BERA
With 95% Confidence Limits
5.75
5.50
5.25
5.00
4.75
4.50
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Methyl mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

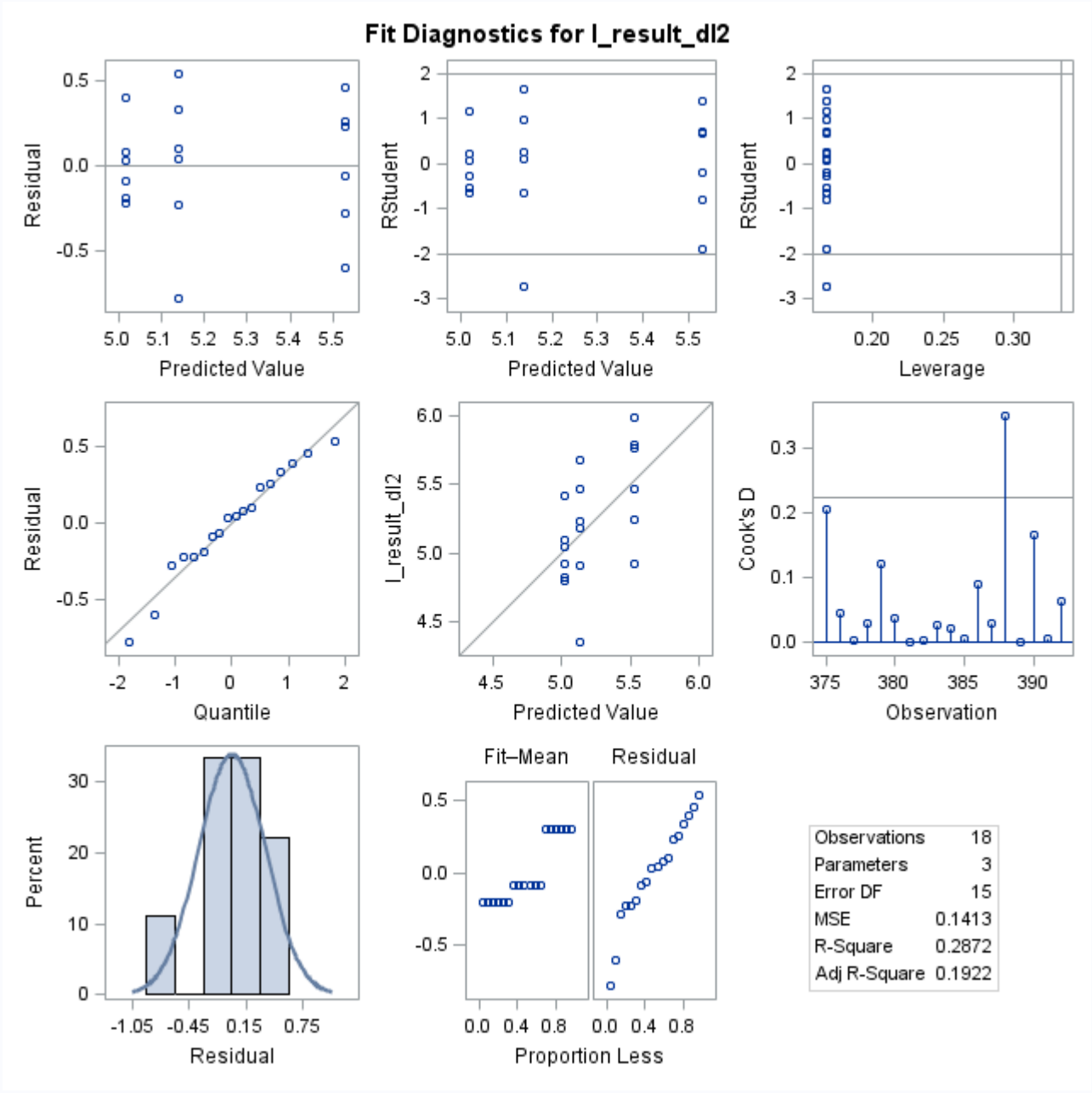
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.85393251	0.42696625	3.02	0.0789
Error	15	2.11914656	0.14127644		
Corrected Total	17	2.97307907			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.287222	7.188079	0.375868	5.229041

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.85393251	0.42696625	3.02	0.0789

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.85393251	0.42696625	3.02	0.0789


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1413
R-Square 0.2872
Adj R-Square 0.1922

Metals Methyl mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0578	0.0289	1.10	0.3568
Error	15	0.3924	0.0262		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	3.51	0.0743
Error	9.0537		

Metals Methyl mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	5.52903332	0.39441676
Southeast	**6**	5.01851076	0.22752058
Southwest	**6**	5.13957752	0.46529466

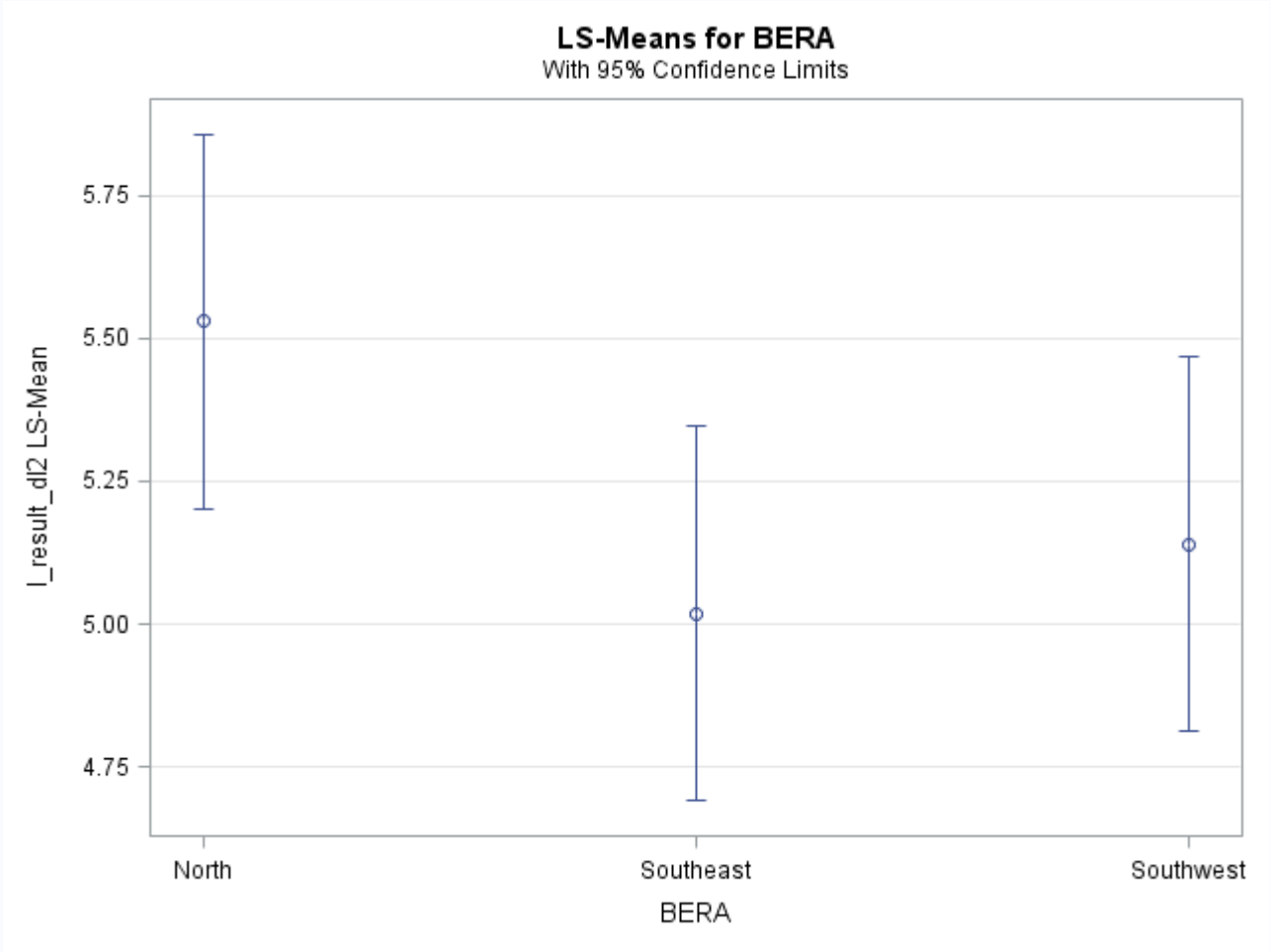
Metals Methyl mercury
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	5.52903332	1
Southeast	5.01851076	2
Southwest	5.13957752	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0788	0.2049
2	0.0788		0.8441
3	0.2049	0.8441	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5.75
5.50
5.25
5.00
4.75
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Selenium
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

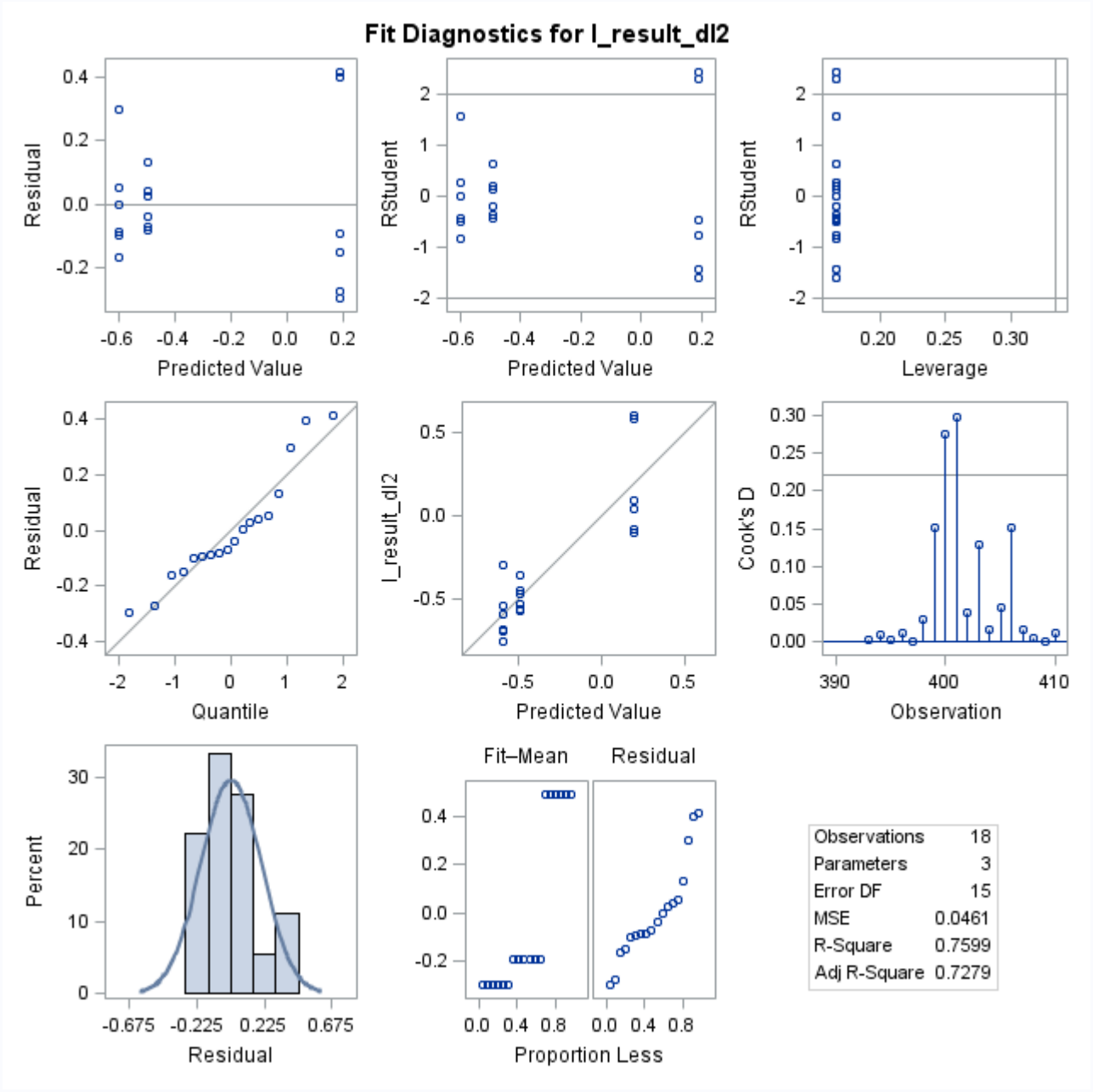
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.19054089	1.09527044	23.74	<.0001
Error	15	0.69216913	0.04614461		
Corrected Total	17	2.88271002			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.759889	-71.56138	0.214813	-0.300180

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.19054089	1.09527044	23.74	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.19054089	1.09527044	23.74	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.0461
R-Square 0.7599
Adj R-Square 0.7279

Metals Selenium
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0224	0.0112	5.89	0.0130
Error	15	0.0285	0.00190		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	13.35	0.0026
Error	8.2254		

Metals Selenium
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	-0.49273147	0.08143884
Southeast	**6**	0.18946328	0.32379749
Southwest	**6**	-0.59727180	0.16418504

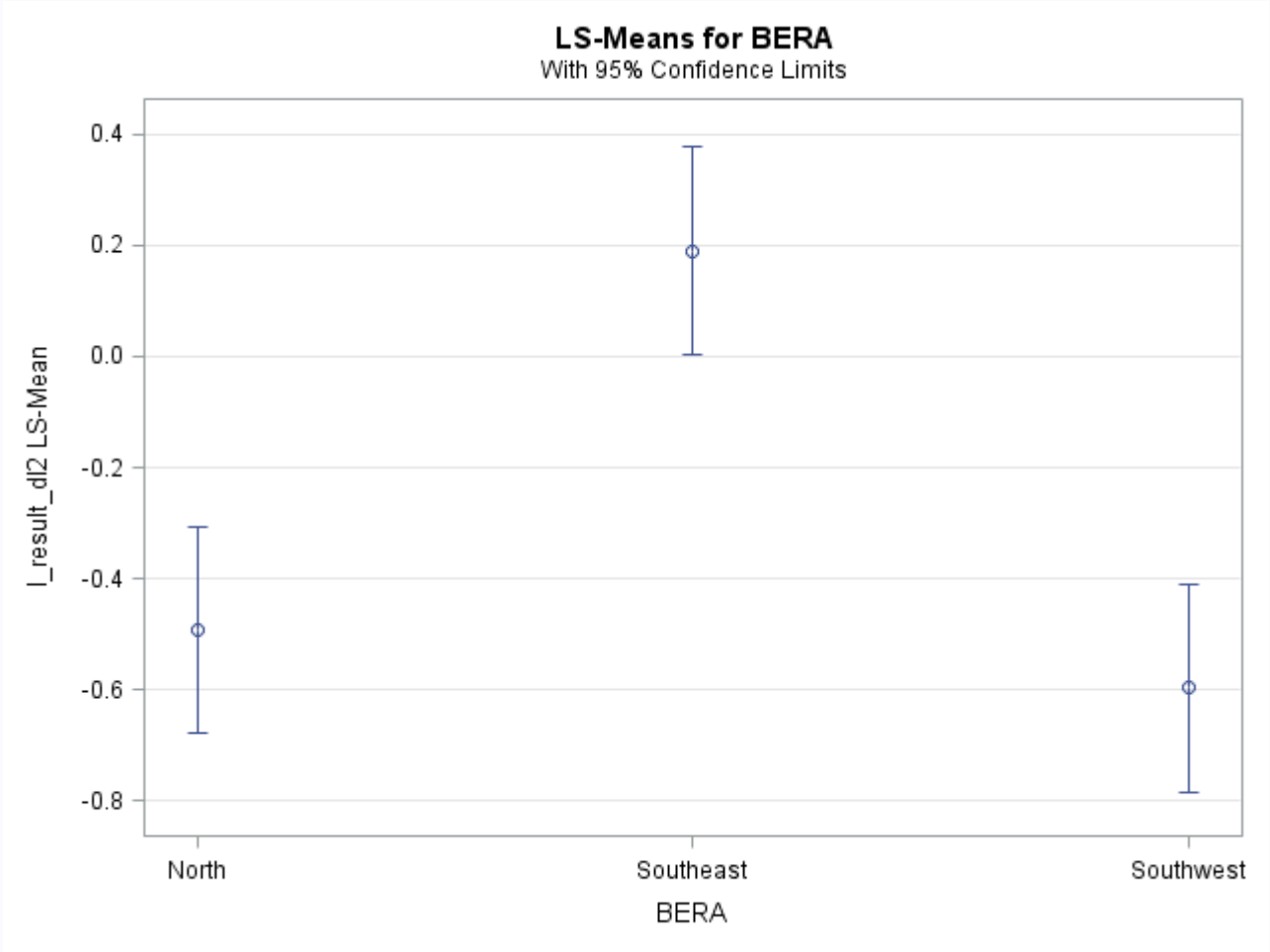
Metals Selenium
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.49273147	1
Southeast	0.18946328	2
Southwest	-0.59727180	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0002	0.6830
2	0.0002		<.0001
3	0.6830	<.0001	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
0.4
0.2
0.0
-0.2
-0.4
-0.6
-0.8
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Zinc
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure

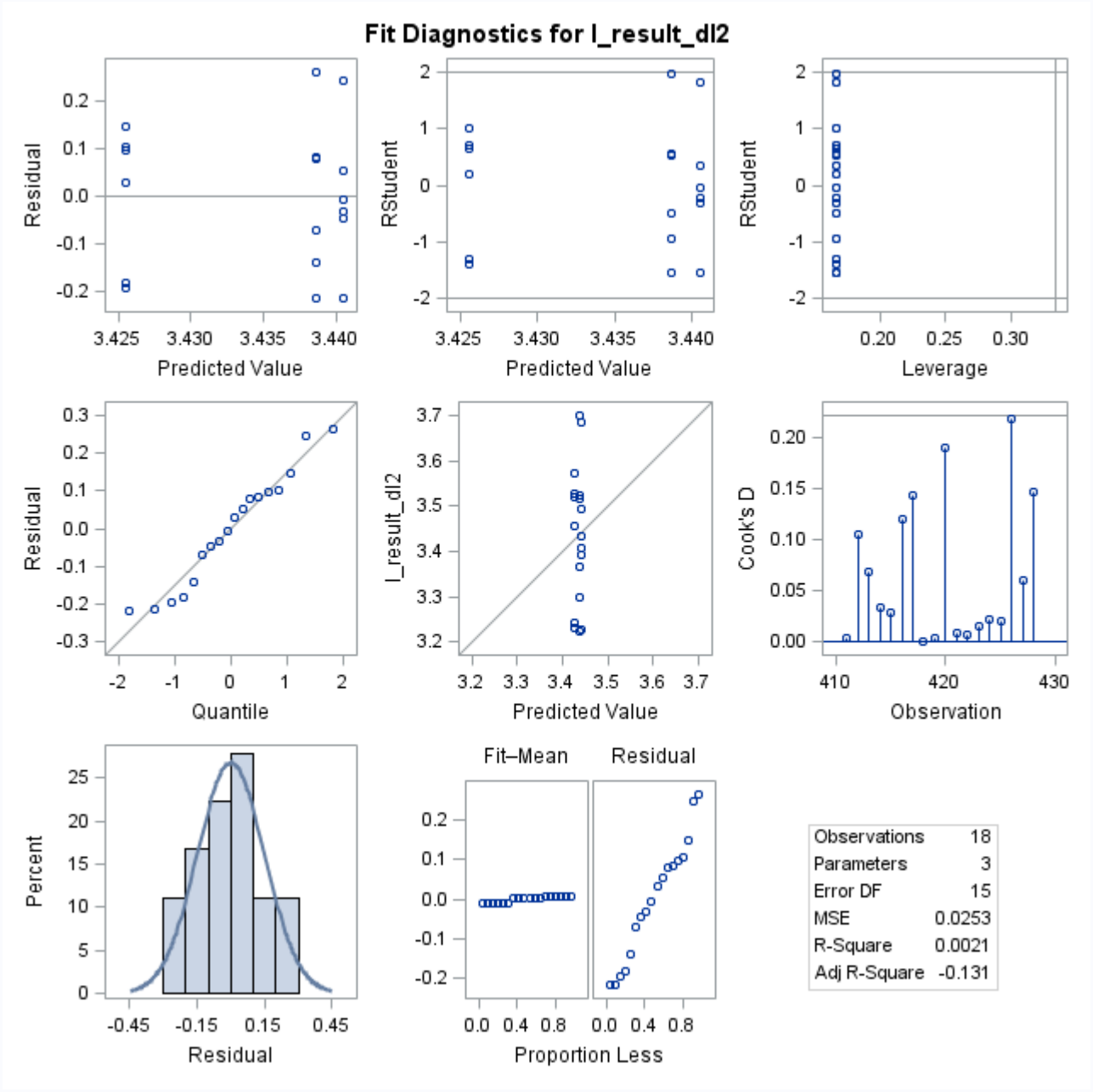
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.00079759	0.00039879	0.02	0.9844
Error	15	0.37947845	0.02529856		
Corrected Total	17	0.38027604			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.002097	4.630561	0.159055	3.434902

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.00079759	0.00039879	0.02	0.9844

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.00079759	0.00039879	0.02	0.9844


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.0253
R-Square 0.0021
Adj R-Square -0.131

Metals Zinc
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.000181	0.000091	0.17	0.8490
Error	15	0.00821	0.000548		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.02	0.9842
Error	9.9539		

Metals Zinc
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	3.42554924	0.15096308
Southeast	**6**	3.44050508	0.14975604
Southwest	**6**	3.43865204	0.17515413

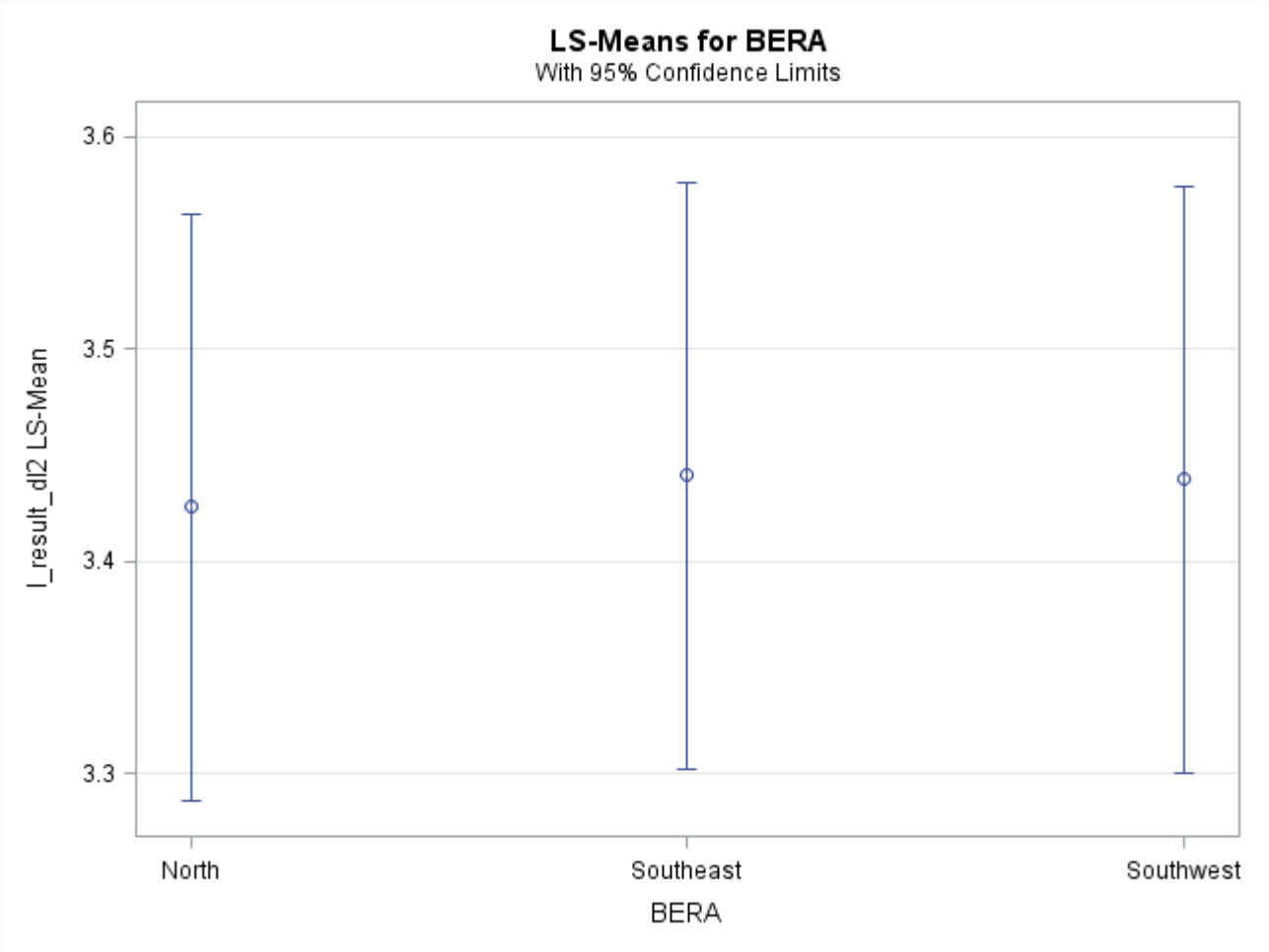
Metals Zinc
NBSA Whole Body American Eel ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.42554924	1
Southeast	3.44050508	2
Southwest	3.43865204	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9855	0.9888
2	0.9855		0.9998
3	0.9888	0.9998	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.6
3.5
3.4
3.3
North
Southeast
Southwest
BERA

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

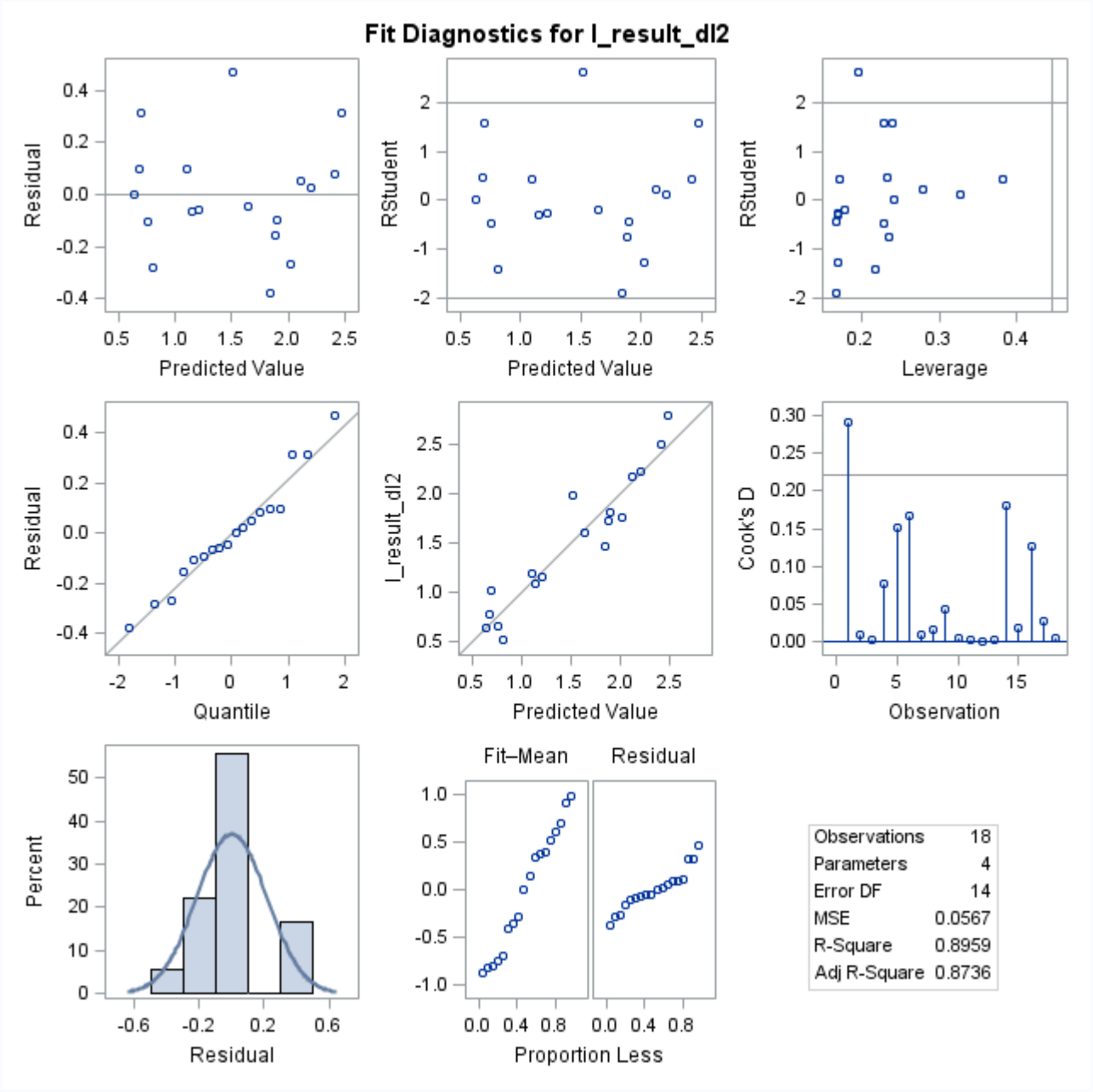
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.83483414	2.27827805	40.15	<.0001
Error	14	0.79441154	0.05674368		
Corrected Total	17	7.62924569			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.895873	15.85050	0.238209	1.502851

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	5.24931663	5.24931663	92.51	<.0001
BERA	2	1.58551751	0.79275876	13.97	0.0005

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	5.40560922	5.40560922	95.26	<.0001
BERA	2	1.58551751	0.79275876	13.97	0.0005


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.0567
R-Square 0.8959
Adj R-Square 0.8736

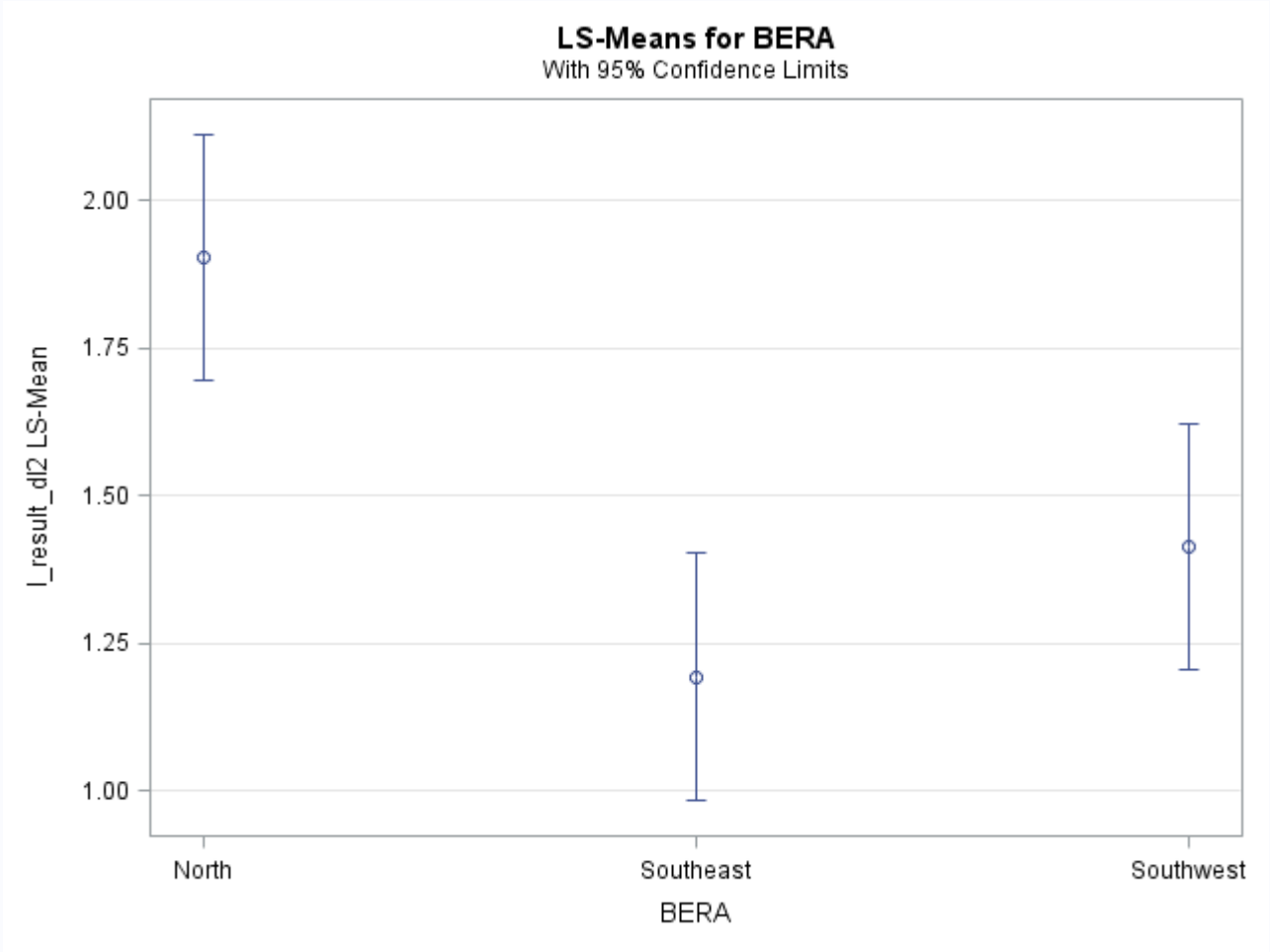
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	1.90315506	1
Southeast	1.19244383	2
Southwest	1.41295381	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0004	0.0083
2	0.0004		0.2813
3	0.0083	0.2813	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
2.00
1.75
1.50
1.25
1.00
North
Southeast
Southwest
BERA

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PCBs Total PCBs congener (209 specified)
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

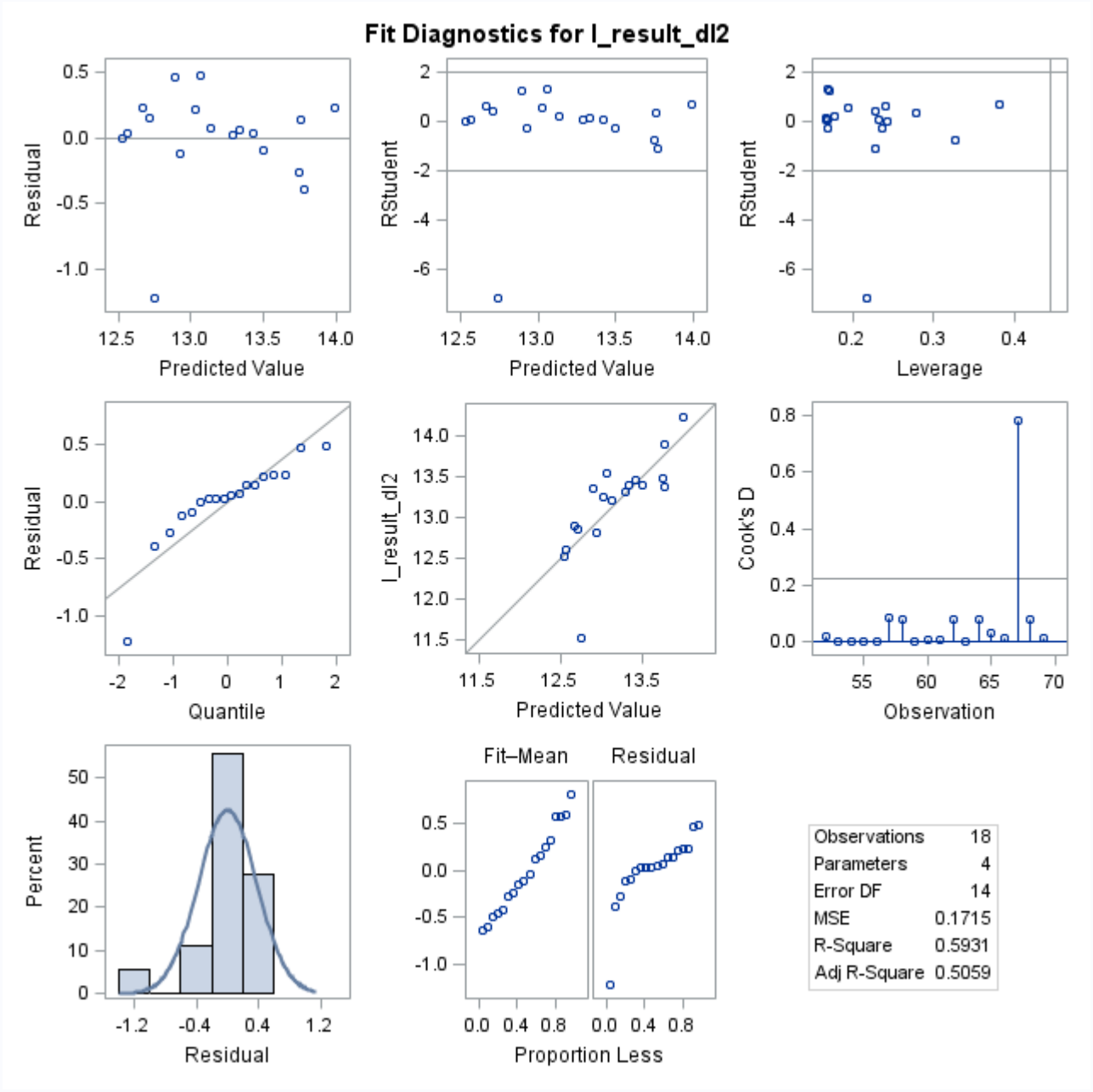
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.50065751	1.16688584	6.80	0.0047
Error	14	2.40134710	0.17152479		
Corrected Total	17	5.90200462			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.593130	3.144720	0.414156	13.16987

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	3.07860726	3.07860726	17.95	0.0008
BERA	2	0.42205025	0.21102513	1.23	0.3219

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	3.22503417	3.22503417	18.80	0.0007
BERA	2	0.42205025	0.21102513	1.23	0.3219


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.1715
R-Square 0.5931
Adj R-Square 0.5059

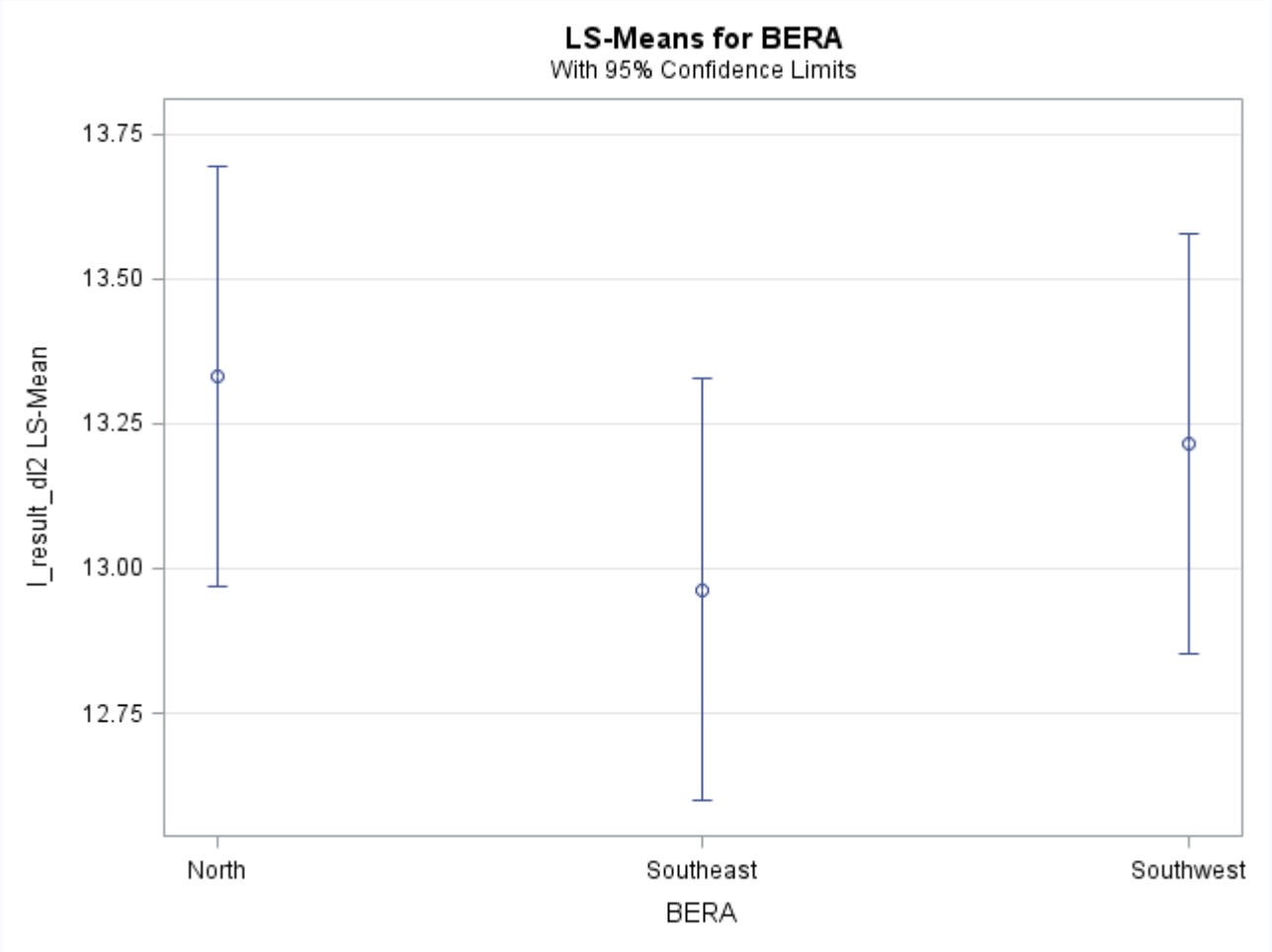
PCBs Total PCBs congener (209 specified)
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	13.3308629	1
Southeast	12.9629792	2
Southwest	13.2157665	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3051	0.8815
2	0.3051		0.5592
3	0.8815	0.5592	


LS-Means for BERA
With 95% Confidence Limits
13.75
13.50
13.25
13.00
12.75
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Dieldrin
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

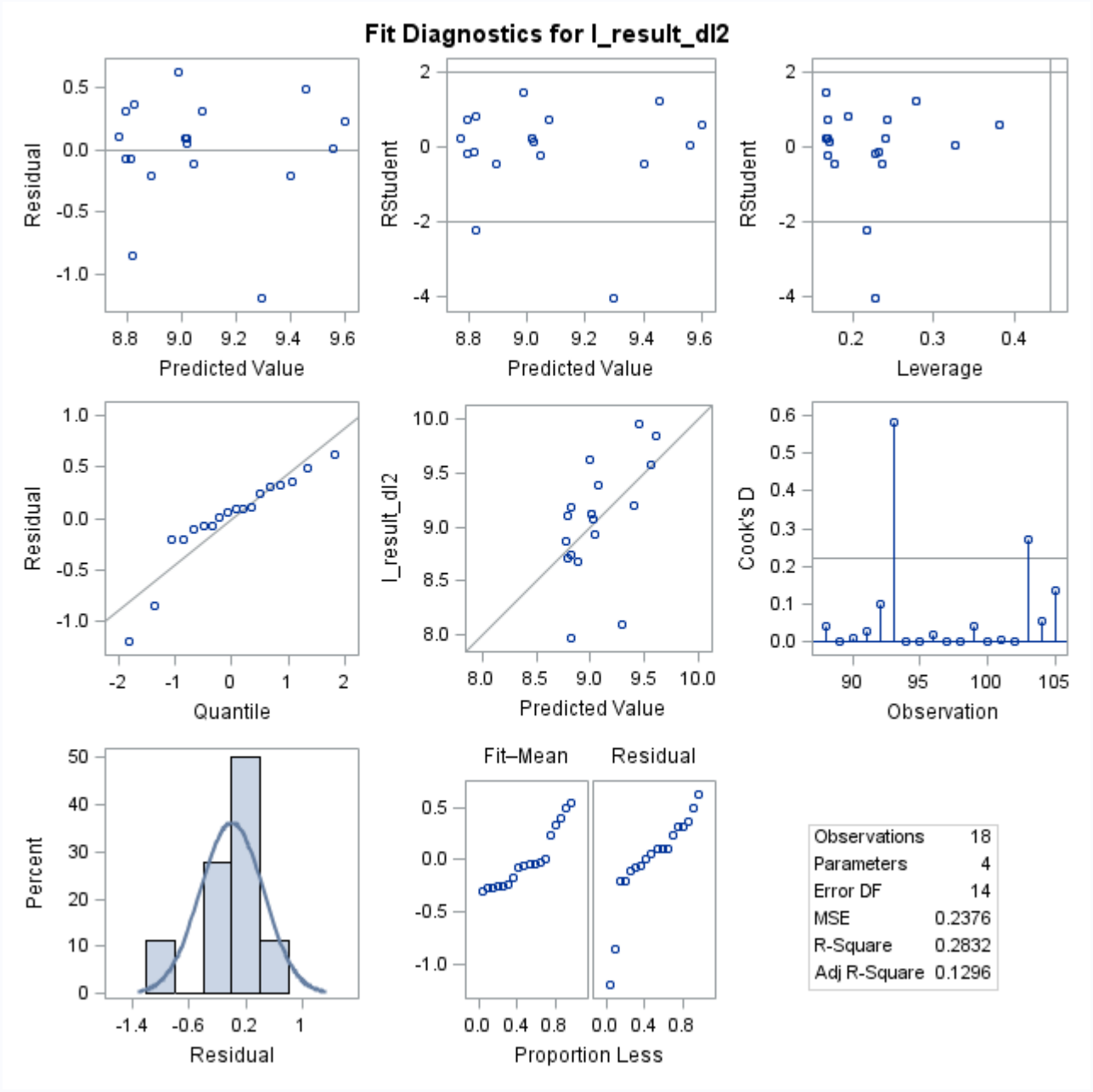
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.31379387	0.43793129	1.84	0.1856
Error	14	3.32581335	0.23755810		
Corrected Total	17	4.63960722			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.283169	5.376261	0.487399	9.065768

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.28470030	1.28470030	5.41	0.0356
BERA	2	0.02909356	0.01454678	0.06	0.9409

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.28756111	1.28756111	5.42	0.0354
BERA	2	0.02909356	0.01454678	0.06	0.9409


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.2376
R-Square 0.2832
Adj R-Square 0.1296

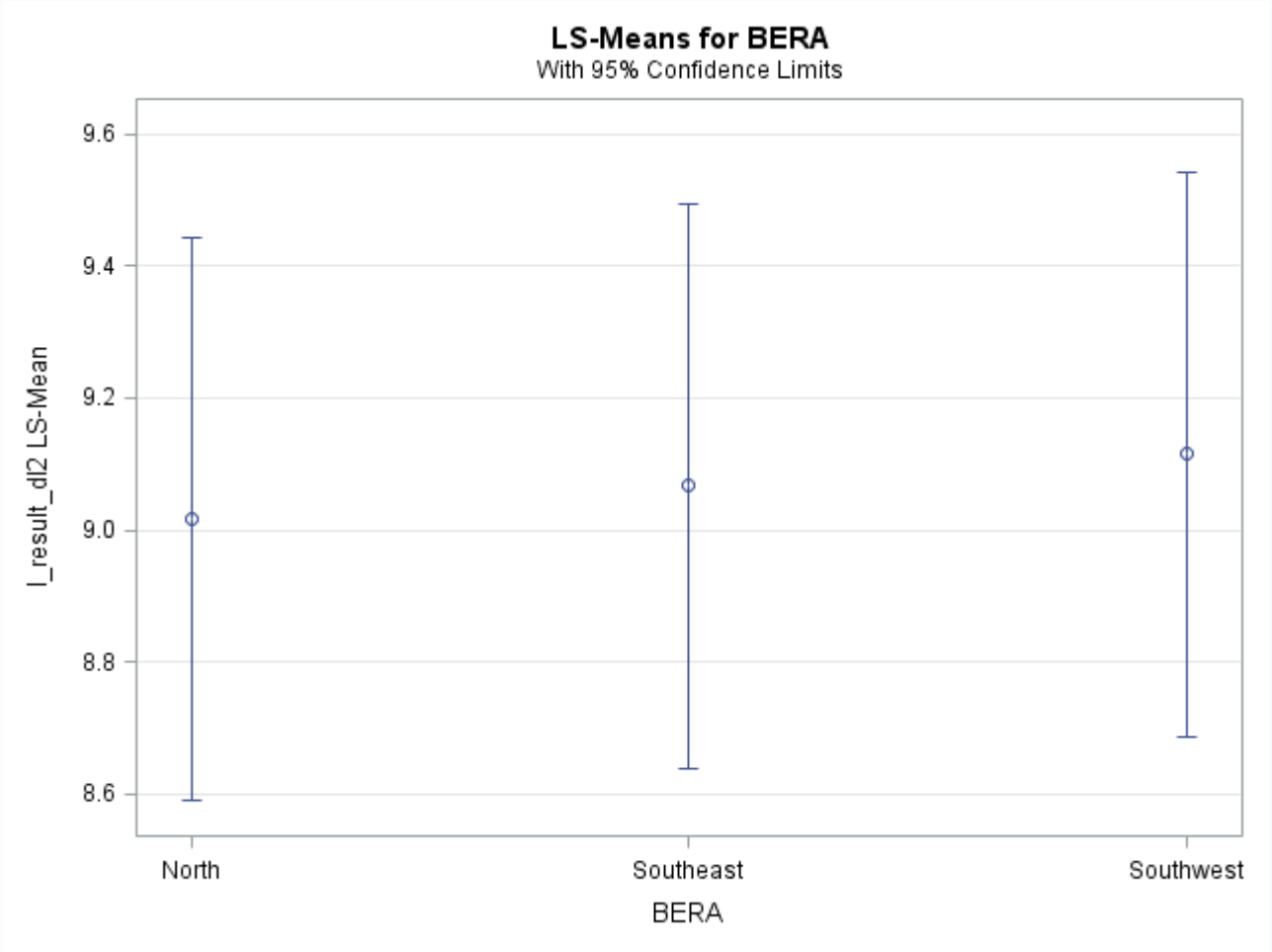
Pesticides Dieldrin
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.01621237	1
Southeast	9.06625669	2
Southwest	9.11483485	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9828	0.9350
2	0.9828		0.9840
3	0.9350	0.9840	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.6
9.4
9.2
9.0
8.8
8.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Heptachlor epoxide
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

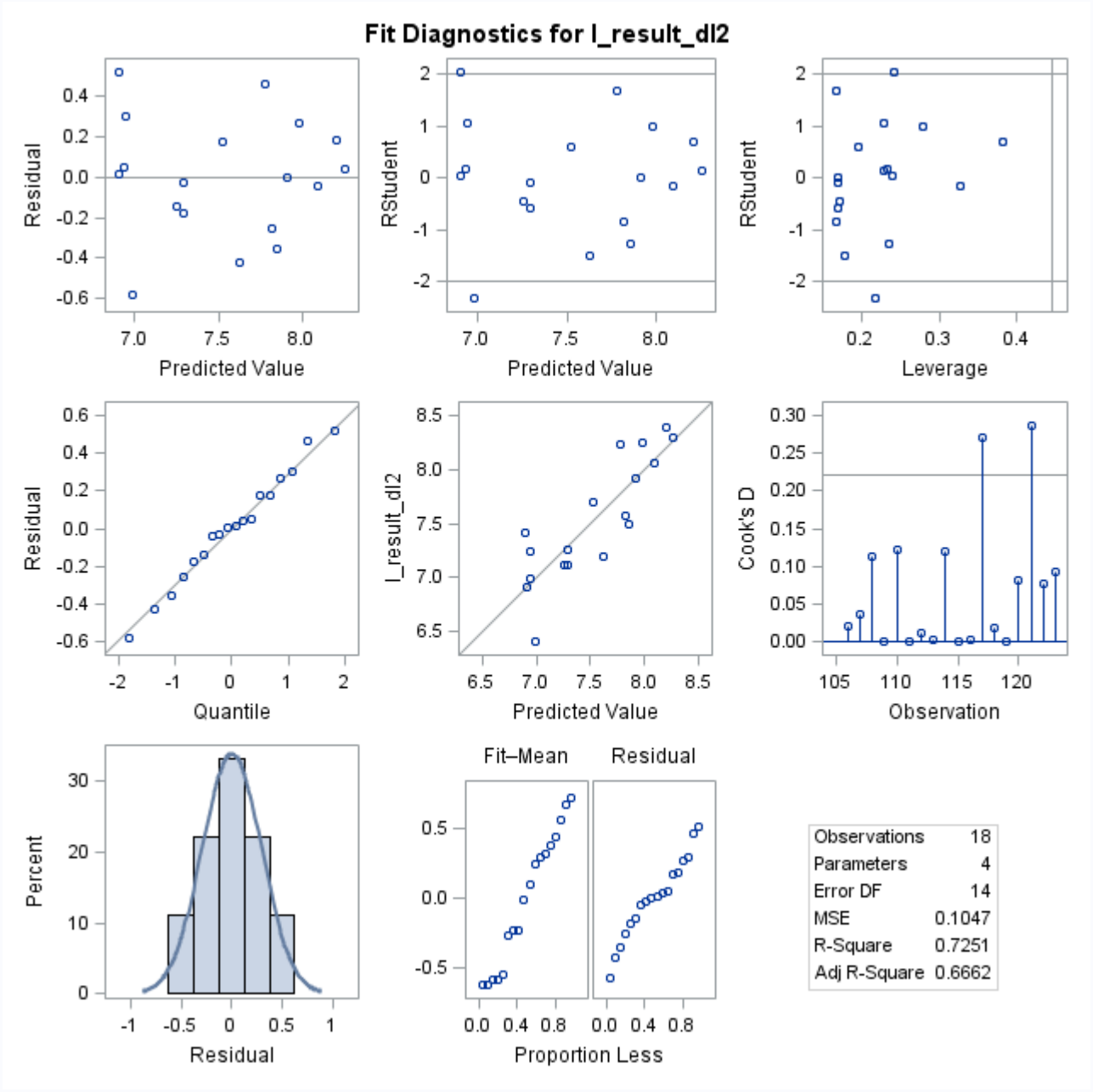
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.86709935	1.28903312	12.31	0.0003
Error	14	1.46604105	0.10471722		
Corrected Total	17	5.33314041			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.725107	4.296890	0.323600	7.531037

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	3.07211405	3.07211405	29.34	<.0001
BERA	2	0.79498530	0.39749265	3.80	0.0482

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	3.12591615	3.12591615	29.85	<.0001
BERA	2	0.79498530	0.39749265	3.80	0.0482


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.1047
R-Square 0.7251
Adj R-Square 0.6662

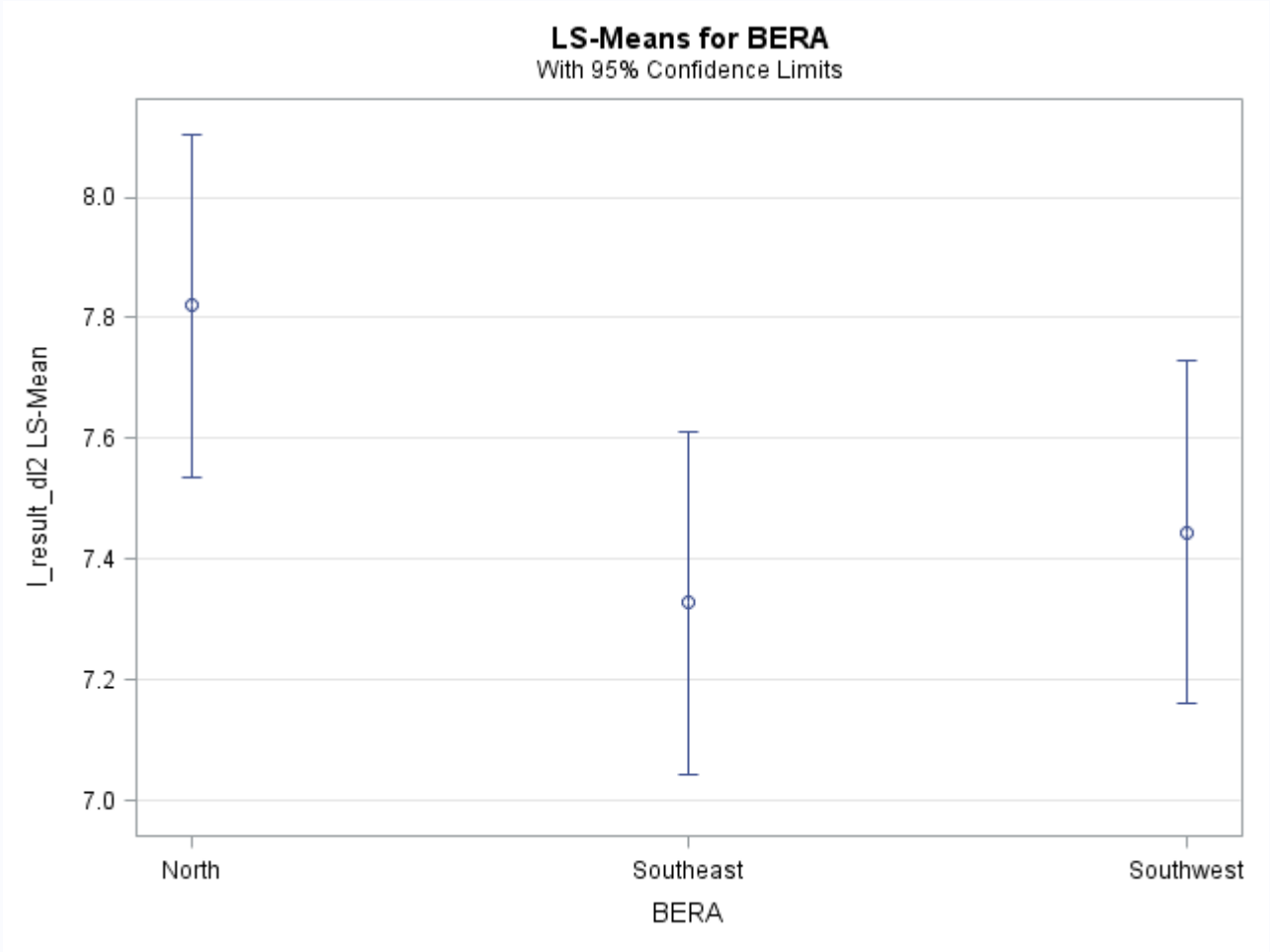
Pesticides Heptachlor epoxide
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.82051256	1
Southeast	7.32742067	2
Southwest	7.44517837	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0485	0.1473
2	0.0485		0.8086
3	0.1473	0.8086	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
8.0
7.8
7.6
7.4
7.2
7.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Hexachlorobenzene
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

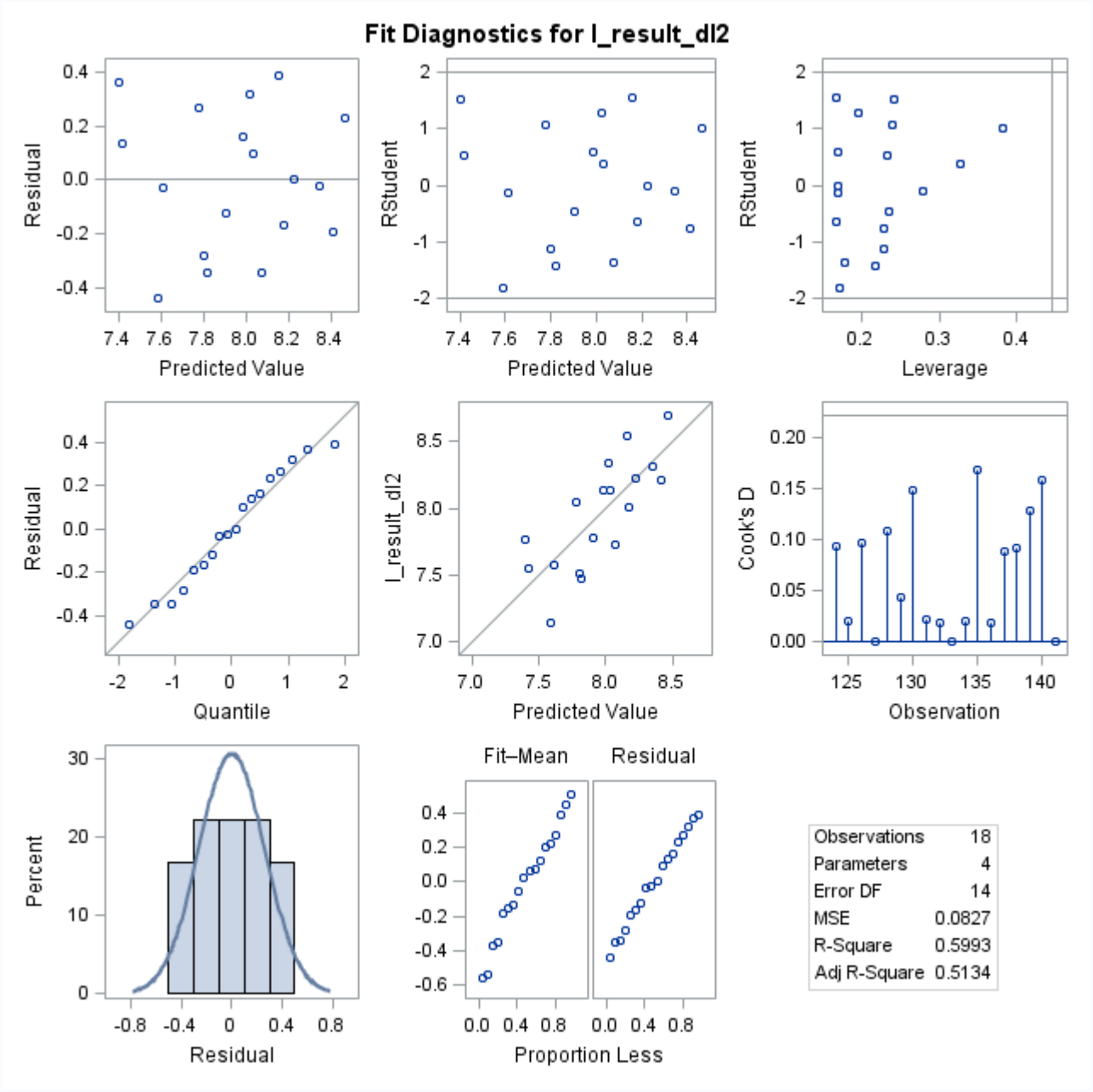
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.73078620	0.57692873	6.98	0.0042
Error	14	1.15745162	0.08267512		
Corrected Total	17	2.88823782			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.599253	3.614102	0.287533	7.955858

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.72141078	0.72141078	8.73	0.0105
BERA	2	1.00937542	0.50468771	6.10	0.0124

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.87486028	0.87486028	10.58	0.0058
BERA	2	1.00937542	0.50468771	6.10	0.0124


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.0827
R-Square 0.5993
Adj R-Square 0.5134

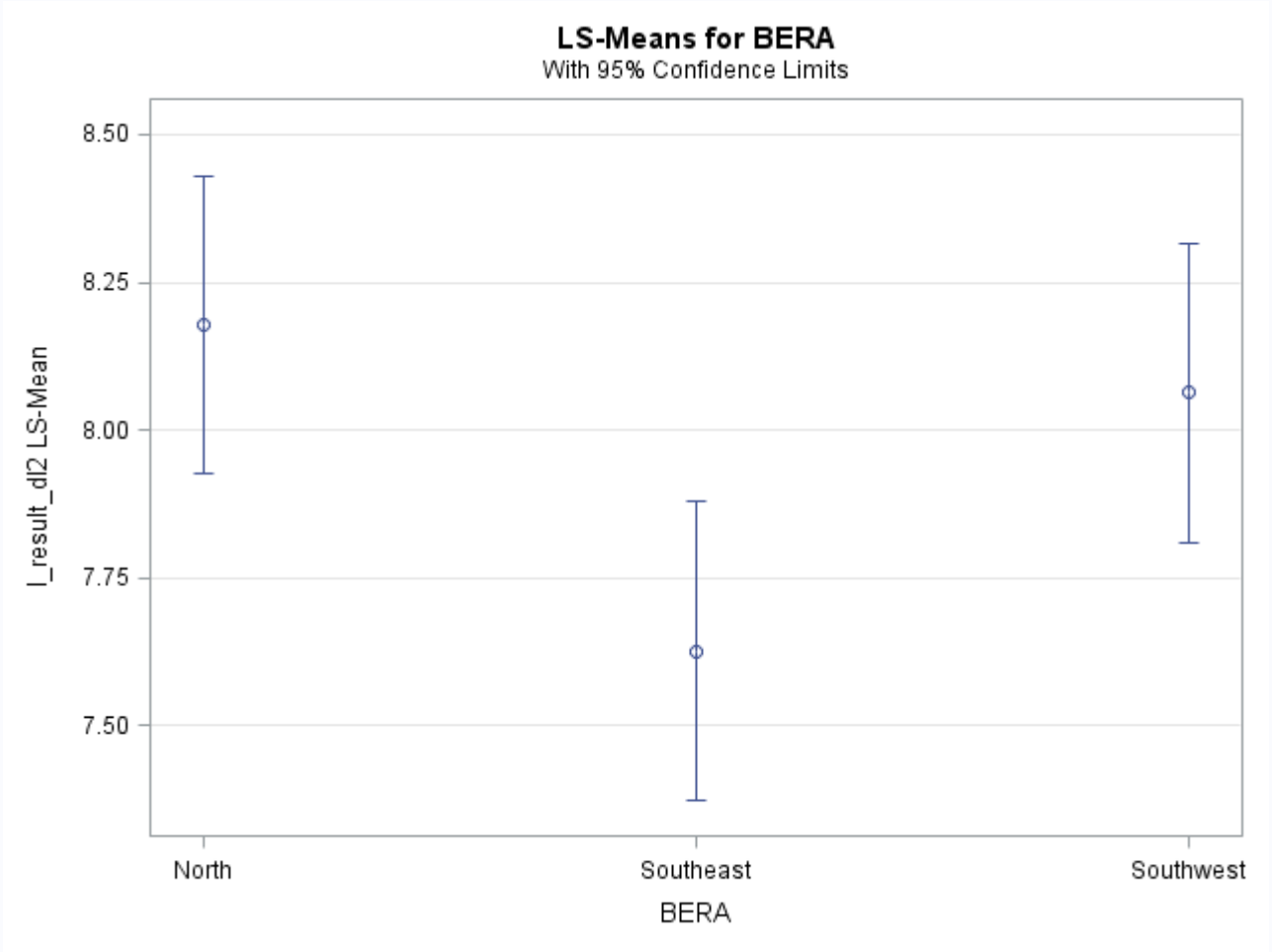
Pesticides Hexachlorobenzene
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.17857568	1
Southeast	7.62626132	2
Southwest	8.06273730	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0131	0.7693
2	0.0131		0.0506
3	0.7693	0.0506	


LS-Means for BERA
With 95% Confidence Limits
8.50
8.25
8.00
7.75
7.50
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

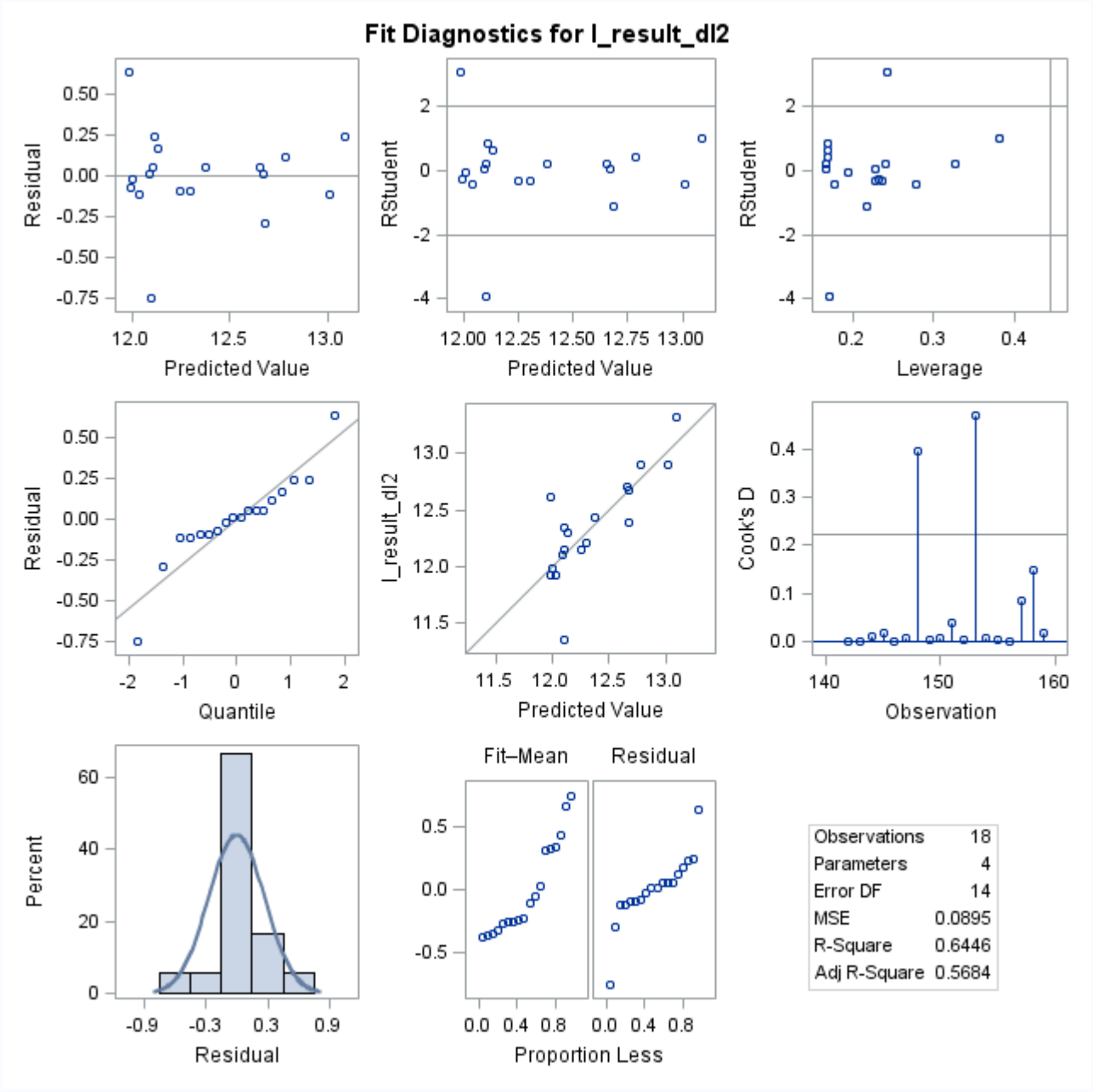
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.27152787	0.75717596	8.46	0.0019
Error	14	1.25255816	0.08946844		
Corrected Total	17	3.52408603			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.644572	2.421253	0.299113	12.35363

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.20412163	0.20412163	2.28	0.1532
BERA	2	2.06740623	1.03370312	11.55	0.0011

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.34930547	0.34930547	3.90	0.0682
BERA	2	2.06740623	1.03370312	11.55	0.0011


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.0895
R-Square 0.6446
Adj R-Square 0.5684

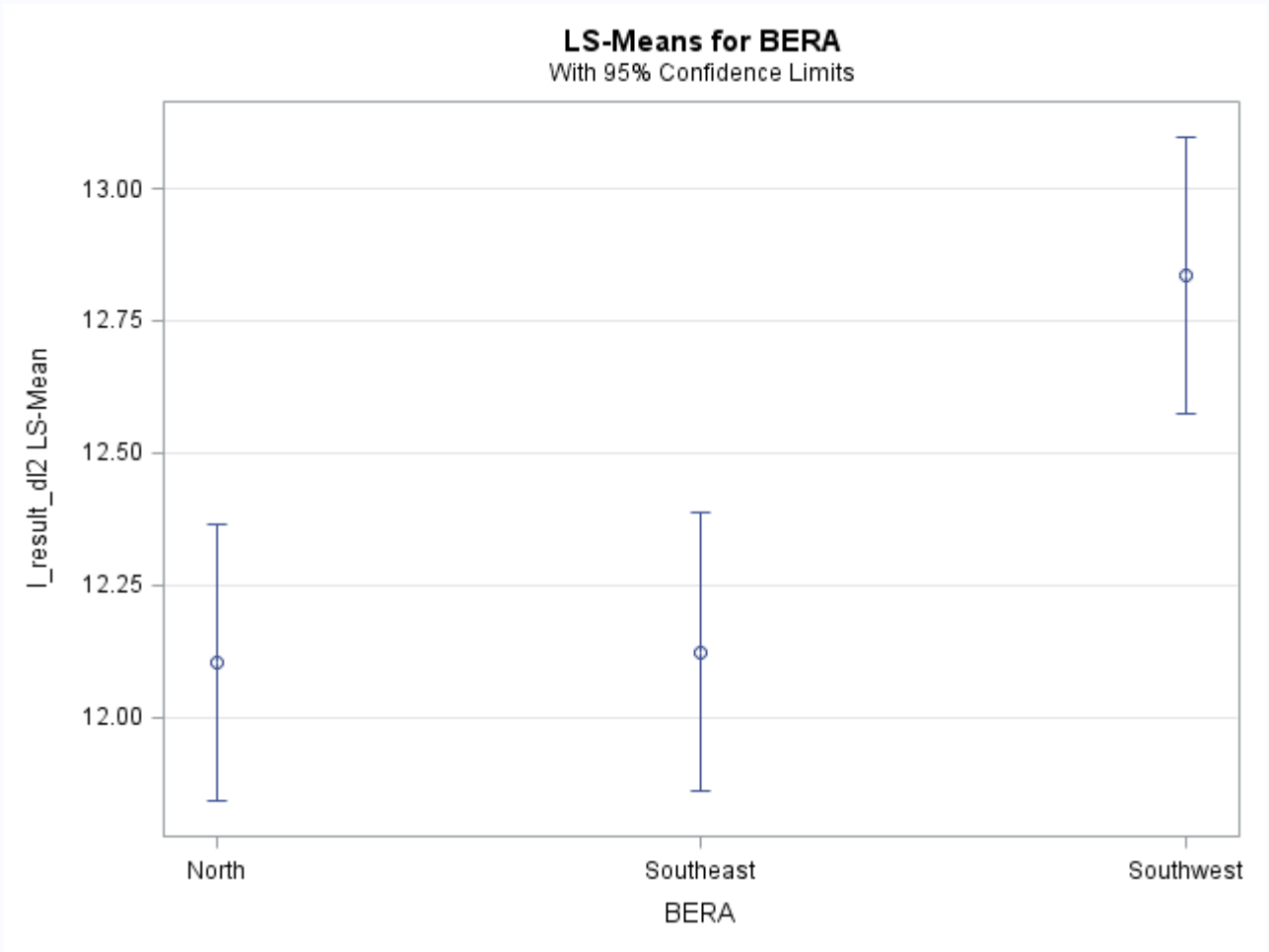
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.1030024	1
Southeast	12.1227377	2
Southwest	12.8351606	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9929	0.0023
2	0.9929		0.0029
3	0.0023	0.0029	


LS-Means for BERA
With 95% Confidence Limits
13.00
12.75
12.50
12.25
12.00
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

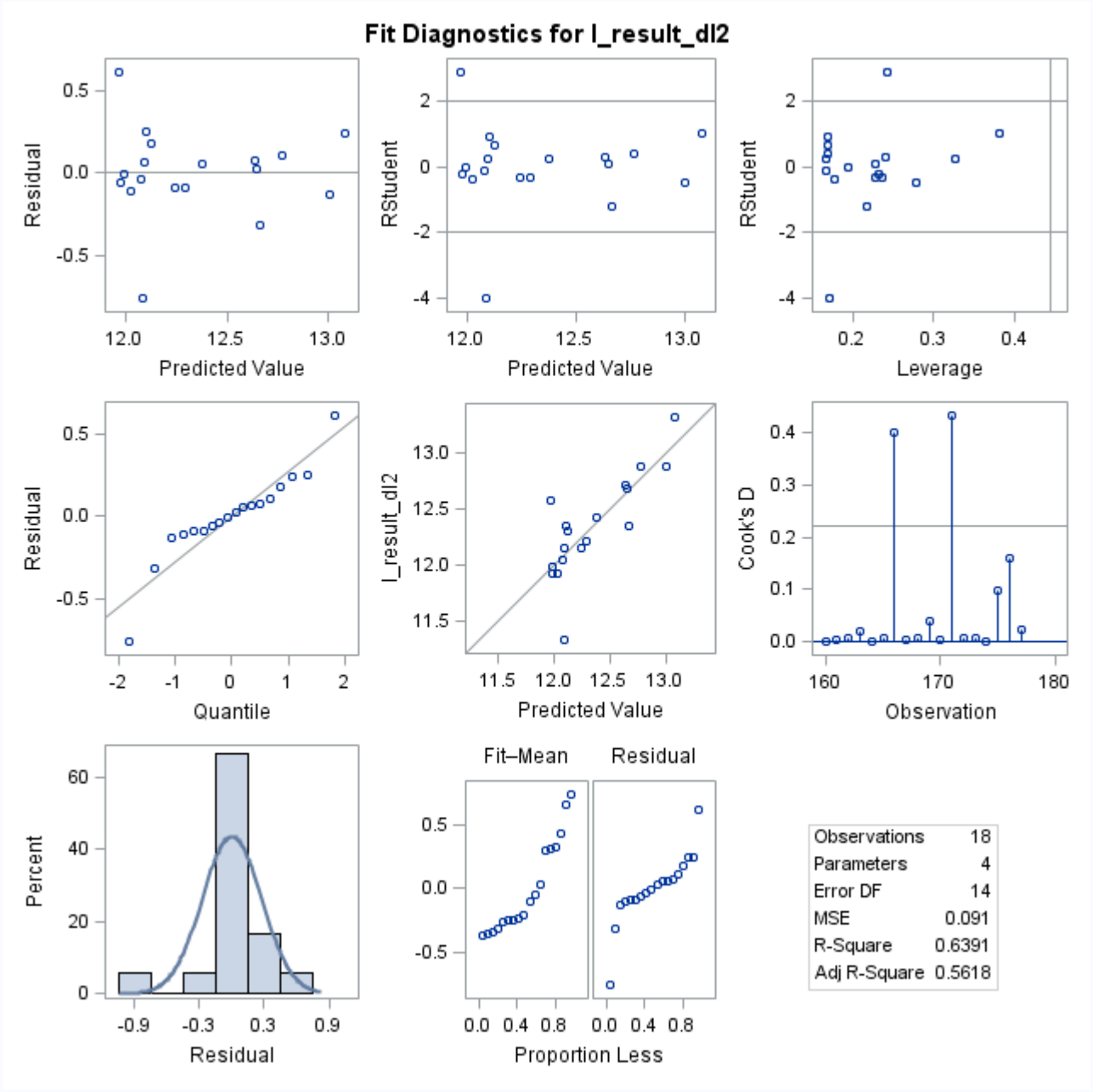
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.25652121	0.75217374	8.26	0.0021
Error	14	1.27422683	0.09101620		
Corrected Total	17	3.53074805			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.639106	2.444394	0.301689	12.34207

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.21885869	0.21885869	2.40	0.1433
BERA	2	2.03766253	1.01883126	11.19	0.0012

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.36718809	0.36718809	4.03	0.0643
BERA	2	2.03766253	1.01883126	11.19	0.0012


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.091
R-Square 0.6391
Adj R-Square 0.5618

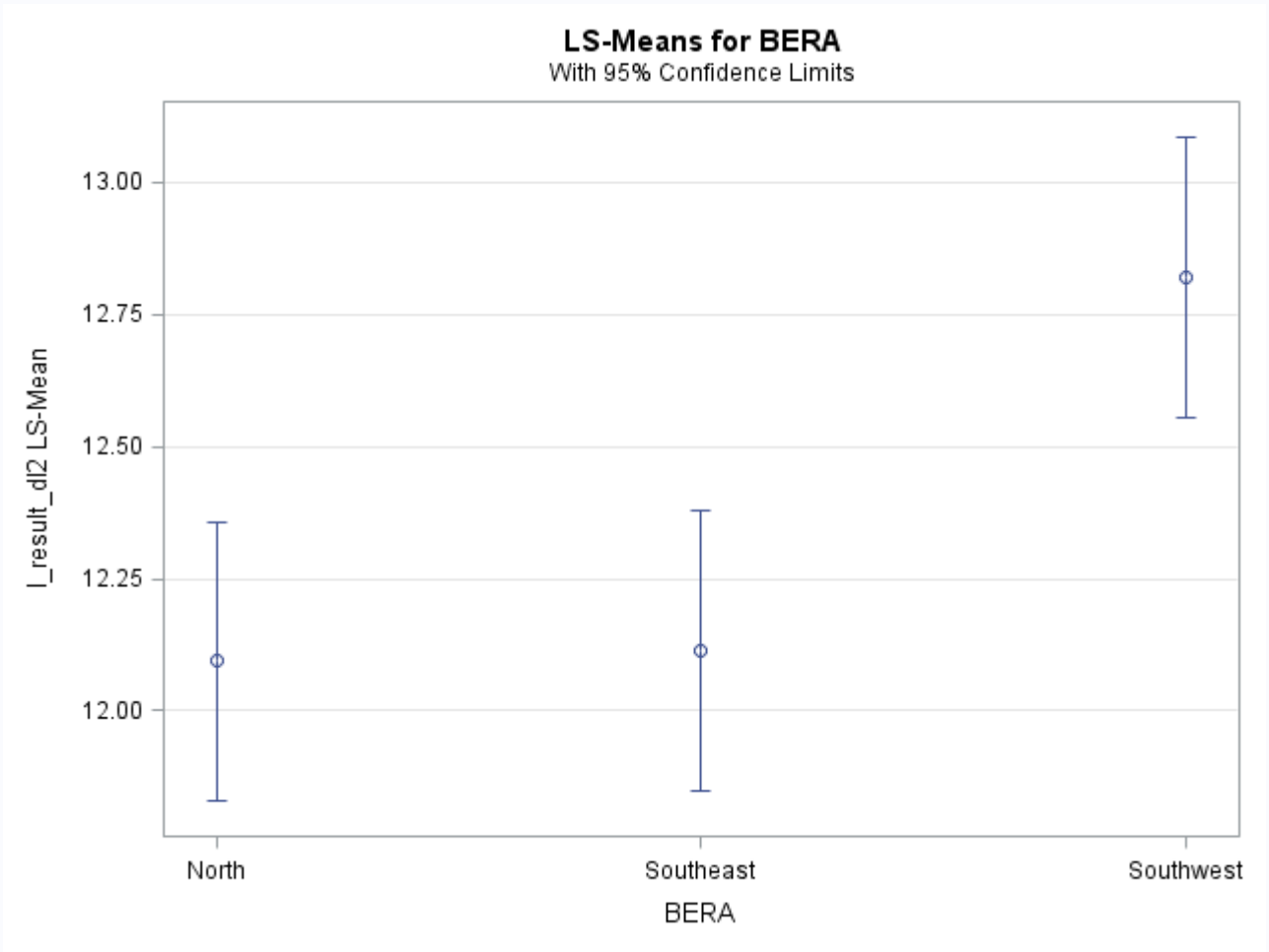
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.0934972	1
Southeast	12.1125923	2
Southwest	12.8201335	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9934	0.0026
2	0.9934		0.0033
3	0.0026	0.0033	


LS-Means for BERA
With 95% Confidence Limits
13.00
12.75
12.50
12.25
12.00
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total alpha + gamma chlordane
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

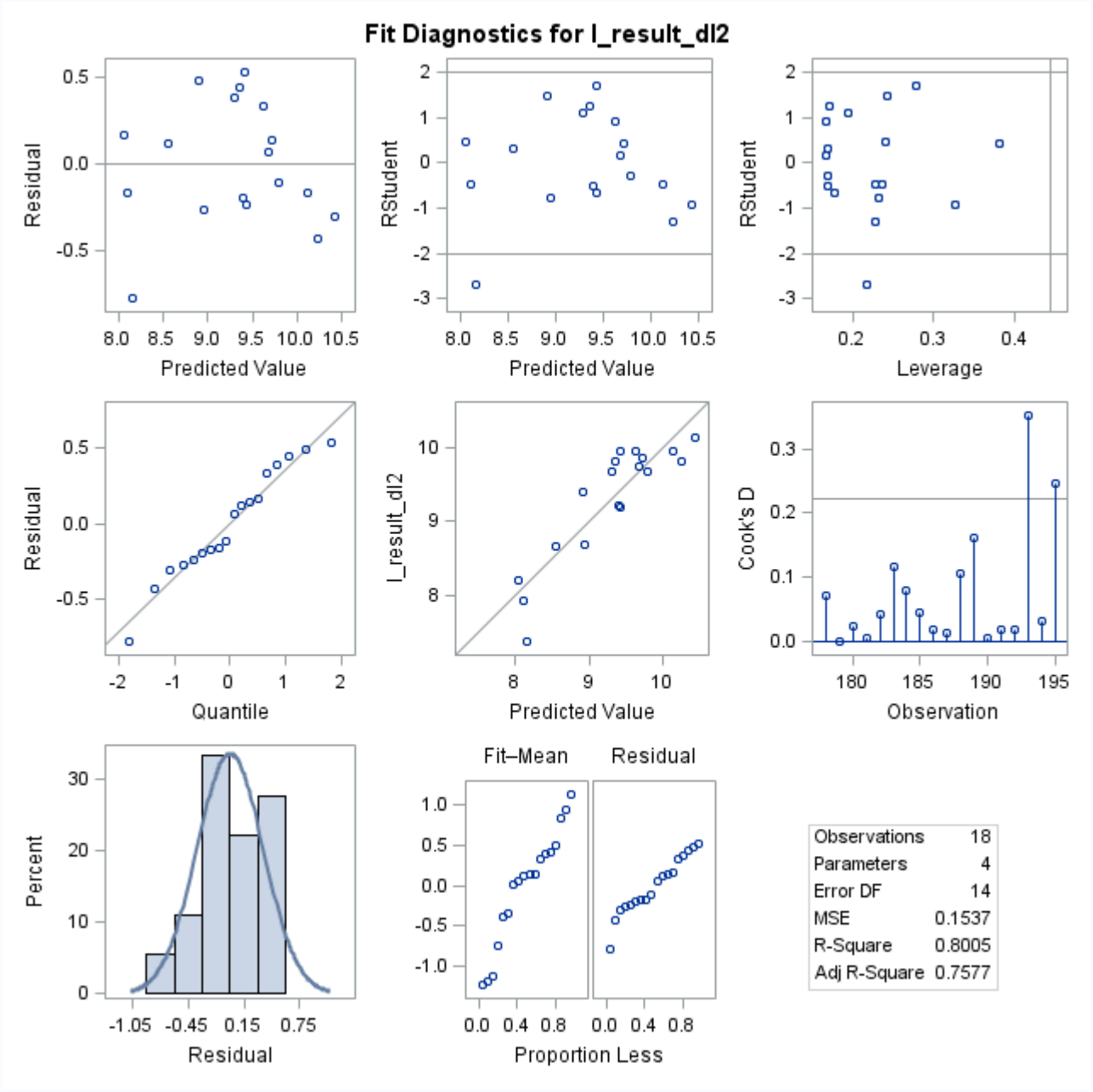
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	8.63029588	2.87676529	18.72	<.0001
Error	14	2.15110717	0.15365051		
Corrected Total	17	10.78140305			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.800480	4.219753	0.391983	9.289236

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	5.80835486	5.80835486	37.80	<.0001
BERA	2	2.82194102	1.41097051	9.18	0.0028

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	5.07994767	5.07994767	33.06	<.0001
BERA	2	2.82194102	1.41097051	9.18	0.0028


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.1537
R-Square 0.8005
Adj R-Square 0.7577

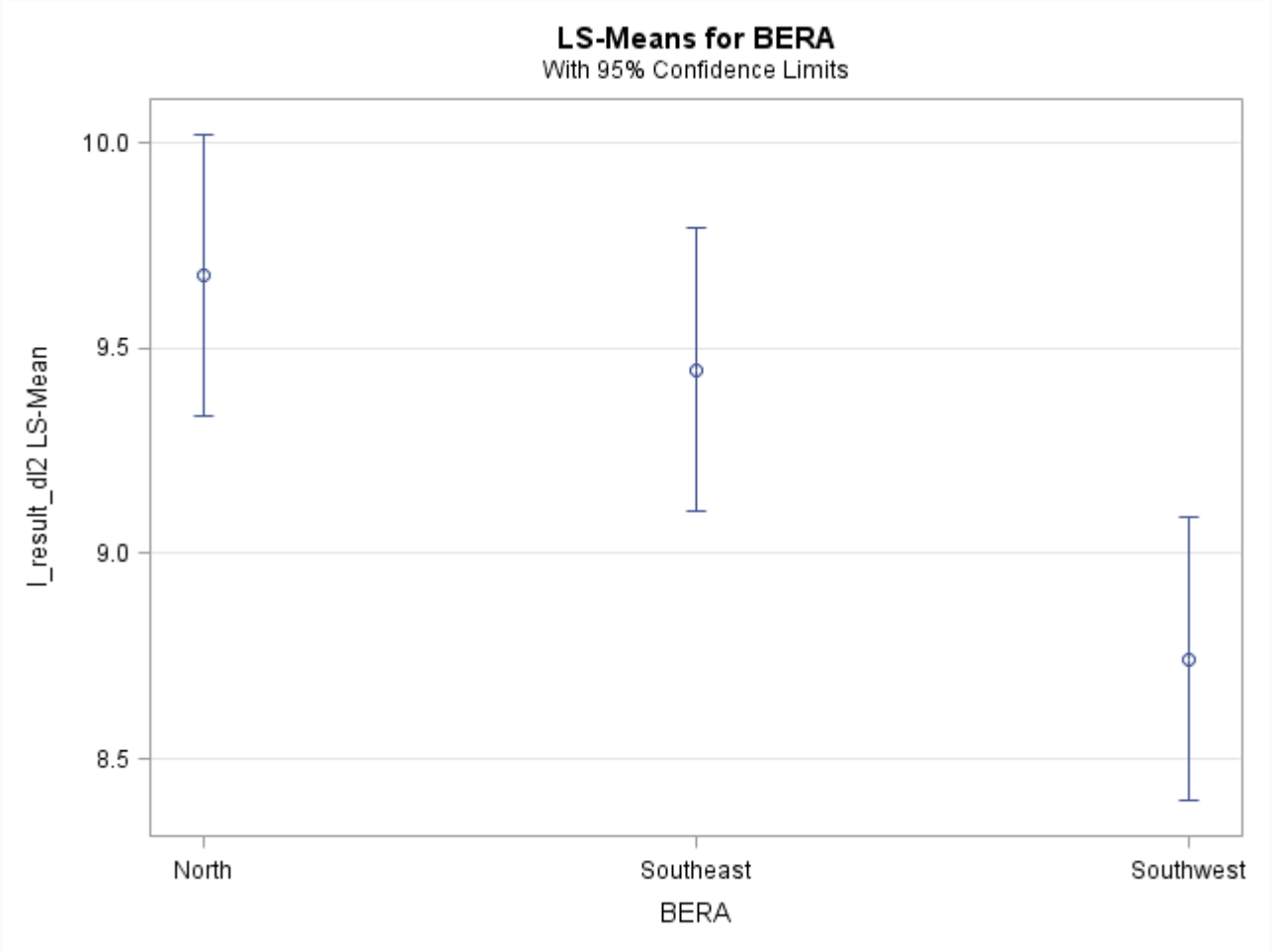
Pesticides Total alpha + gamma chlordane
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.67690380	1
Southeast	9.44765547	2
Southwest	8.74314935	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5823	0.0028
2	0.5823		0.0204
3	0.0028	0.0204	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.0
9.5
9.0
8.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides alpha-BHC
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

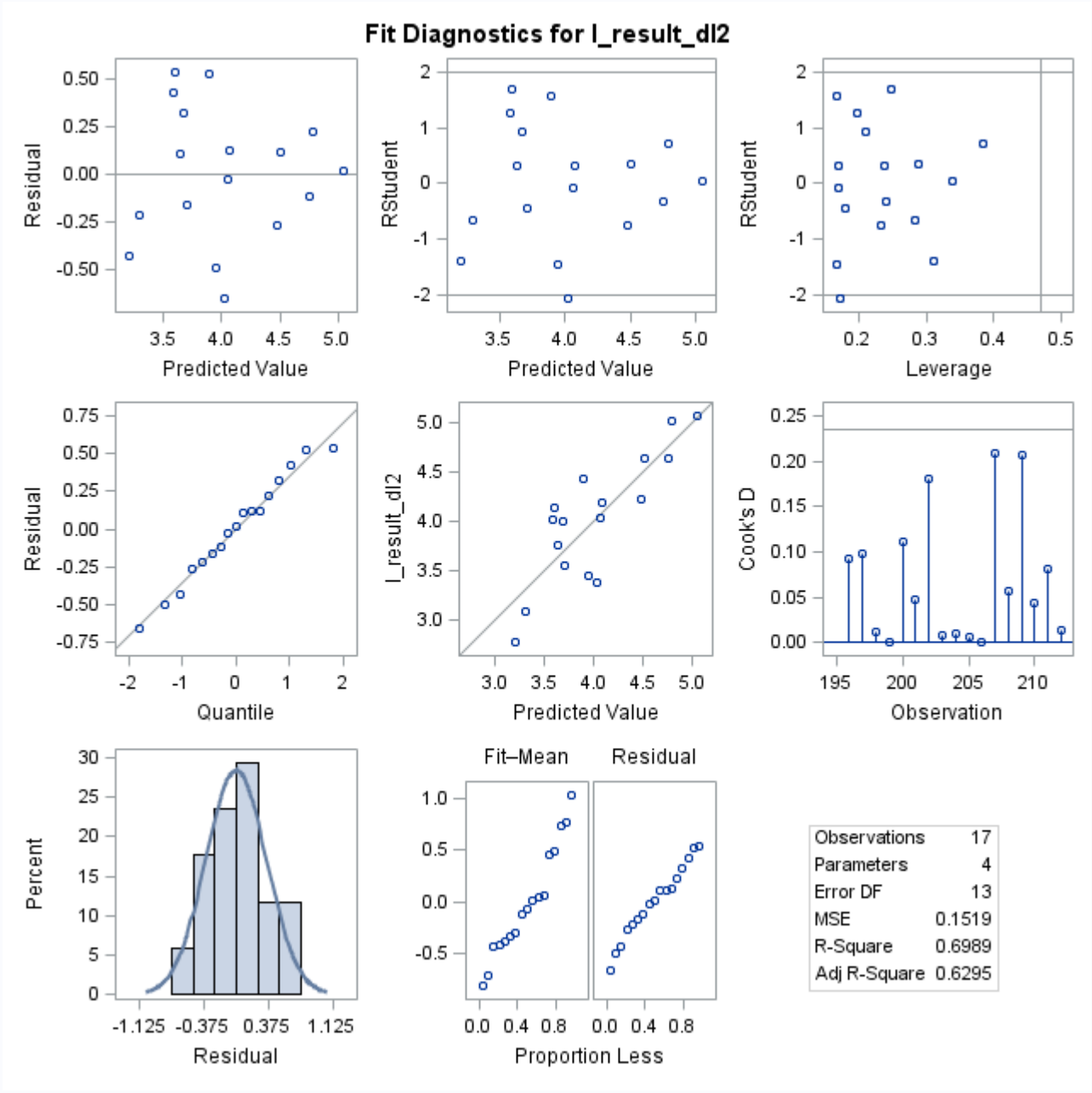
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.58583991	1.52861330	10.06	0.0011
Error	13	1.97524542	0.15194196		
Corrected Total	16	6.56108532			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.698945	9.708148	0.389797	4.015156

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	4.39983039	4.39983039	28.96	0.0001
BERA	2	0.18600951	0.09300476	0.61	0.5571

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	4.29894914	4.29894914	28.29	0.0001
BERA	2	0.18600951	0.09300476	0.61	0.5571


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.1519
R-Square 0.6989
Adj R-Square 0.6295

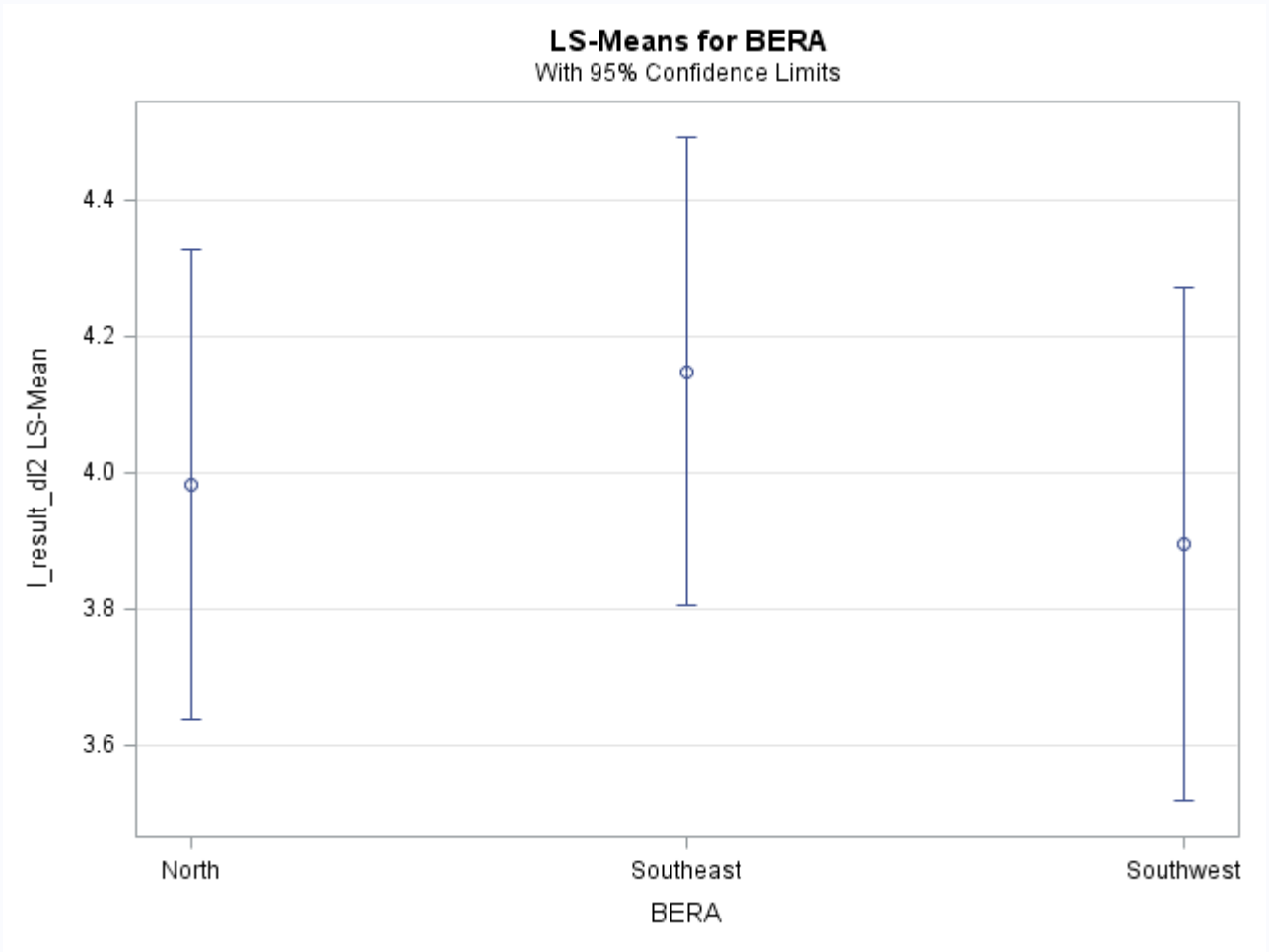
Pesticides alpha-BHC
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.98222834	1
Southeast	4.14869933	2
Southwest	3.89441824	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7458	0.9270
2	0.7458		0.5443
3	0.9270	0.5443	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.4
4.2
4.0
3.8
3.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides beta-BHC
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

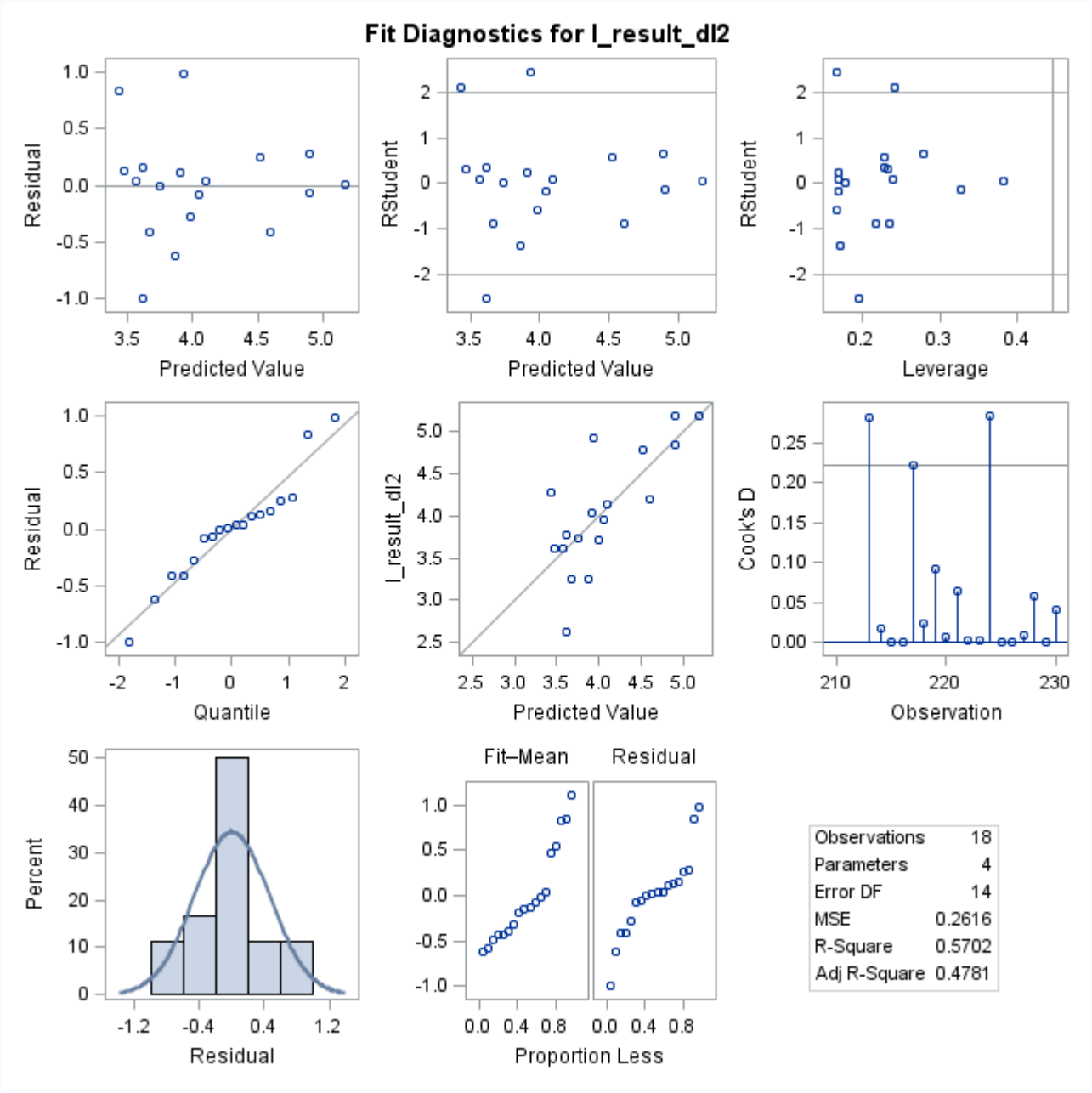
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.86001650	1.62000550	6.19	0.0067
Error	14	3.66289130	0.26163509		
Corrected Total	17	8.52290780			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.570230	12.60771	0.511503	4.057064

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	4.58225673	4.58225673	17.51	0.0009
BERA	2	0.27775977	0.13887989	0.53	0.5995

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	4.76030667	4.76030667	18.19	0.0008
BERA	2	0.27775977	0.13887989	0.53	0.5995


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.2616
R-Square 0.5702
Adj R-Square 0.4781

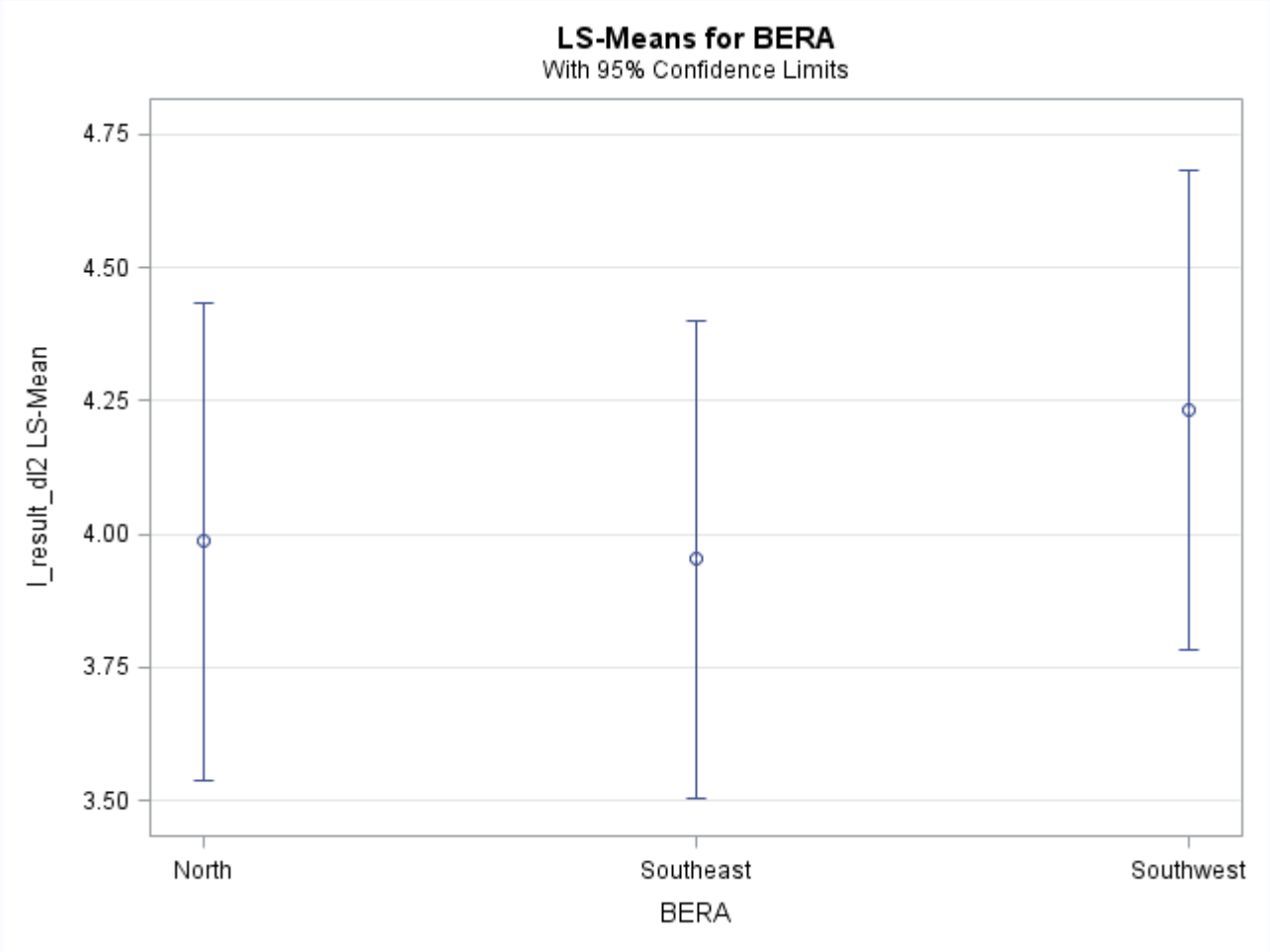
Pesticides beta-BHC
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.98608308	1
Southeast	3.95242366	2
Southwest	4.23268505	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9929	0.6890
2	0.9929		0.6236
3	0.6890	0.6236	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.75
4.50
4.25
4.00
3.75
3.50
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides cis-Nonachlor
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

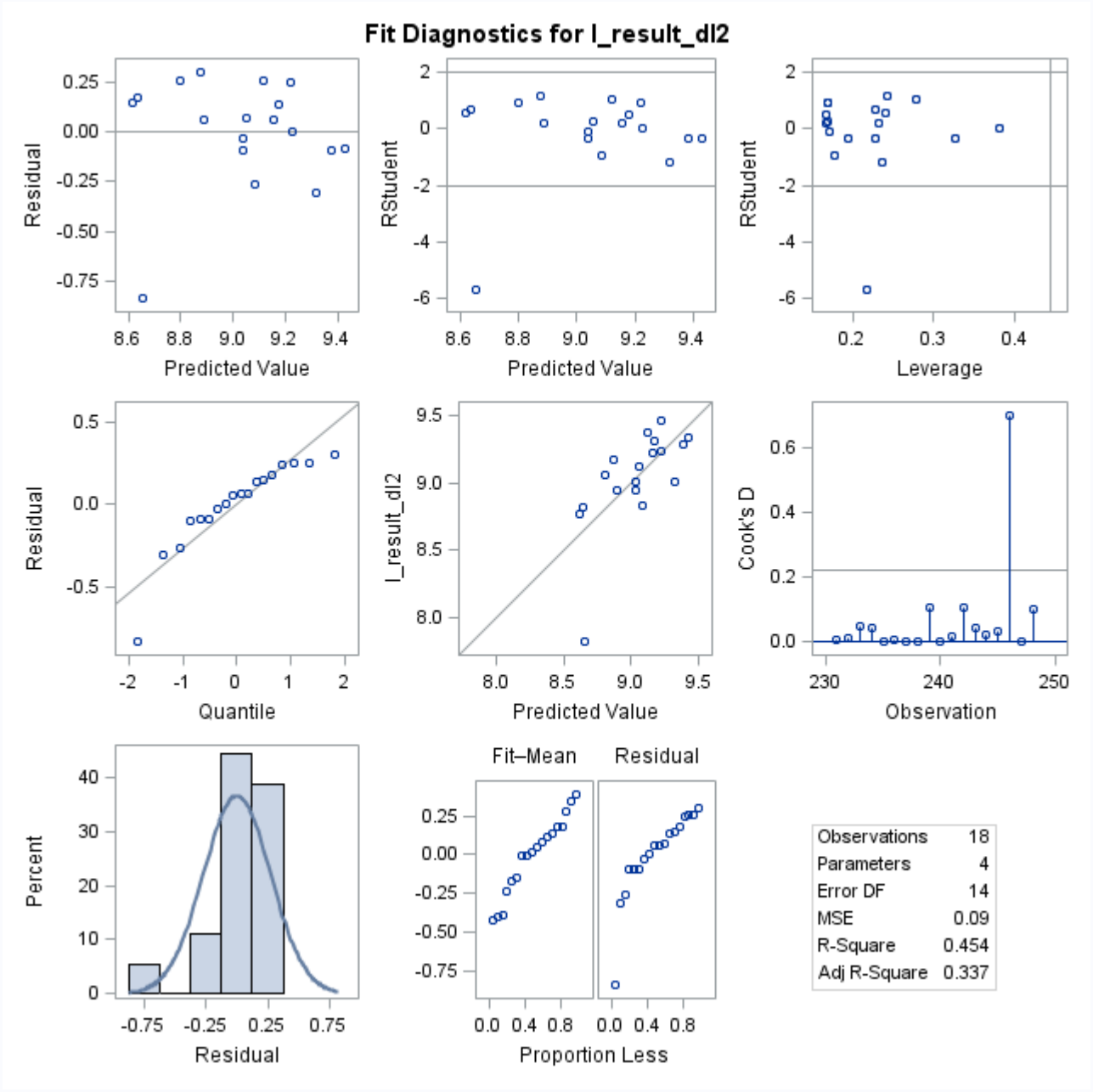
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.04772074	0.34924025	3.88	0.0328
Error	14	1.25982703	0.08998765		
Corrected Total	17	2.30754777			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.454041	3.318605	0.299979	9.039322

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.75789314	0.75789314	8.42	0.0116
BERA	2	0.28982760	0.14491380	1.61	0.2347

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.68082358	0.68082358	7.57	0.0156
BERA	2	0.28982760	0.14491380	1.61	0.2347


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.09
R-Square 0.454
Adj R-Square 0.337

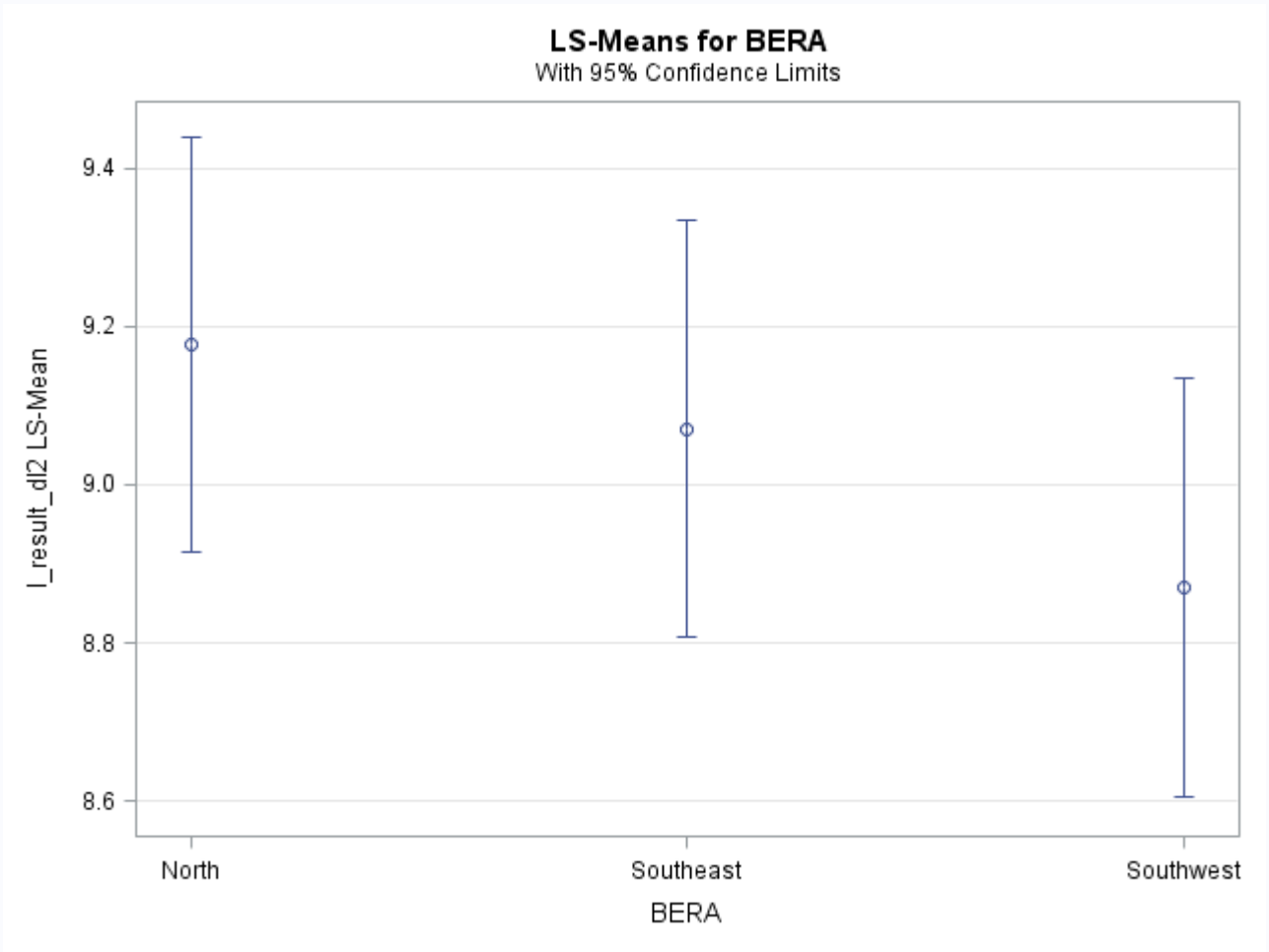
Pesticides cis-Nonachlor
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.17699108	1
Southeast	9.07082847	2
Southwest	8.87014774	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8161	0.2157
2	0.8161		0.5004
3	0.2157	0.5004	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.4
9.2
9.0
8.8
8.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PAHs Total LMW PAHs
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

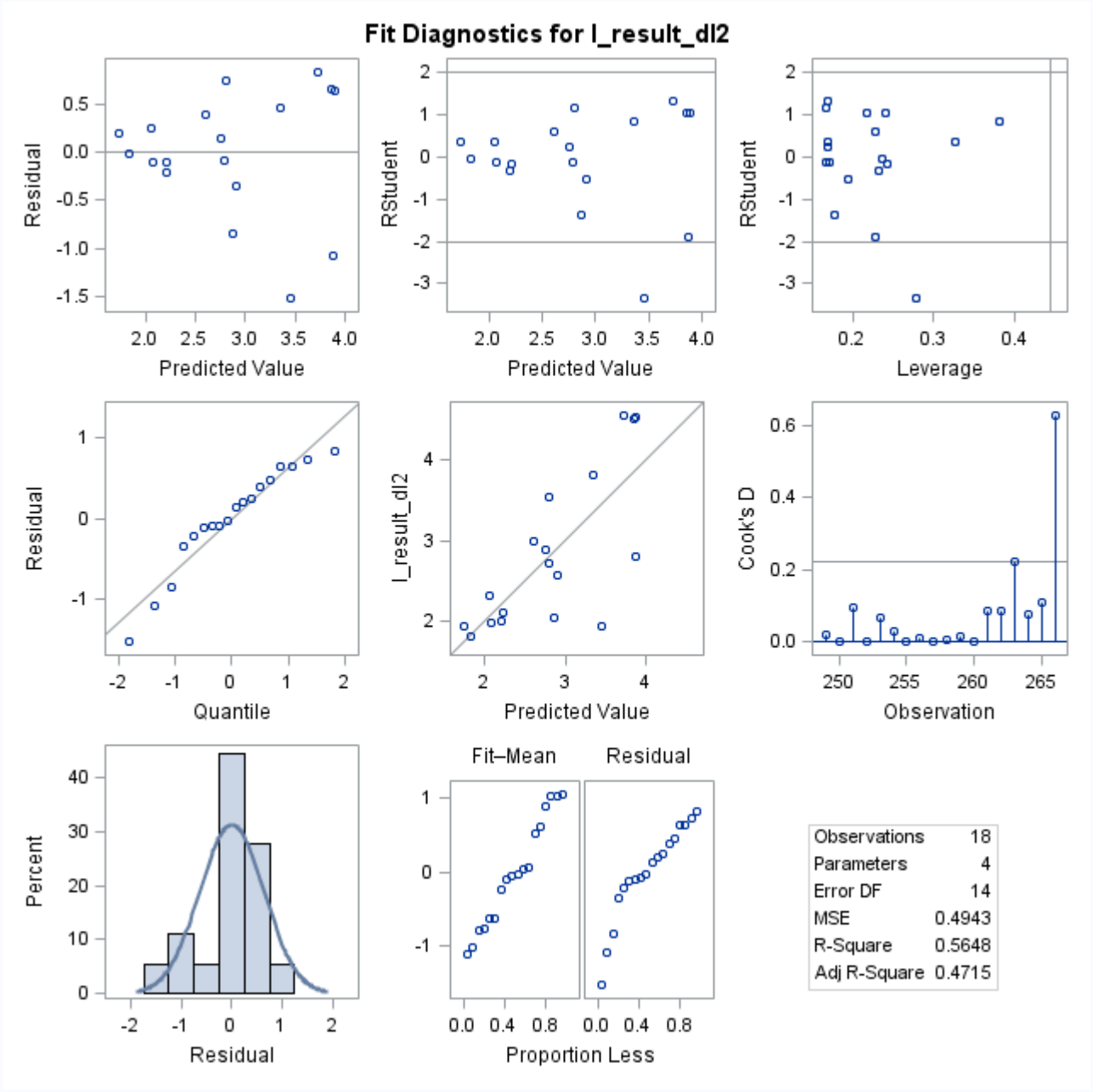
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	8.98016372	2.99338791	6.06	0.0073
Error	14	6.91957779	0.49425556		
Corrected Total	17	15.89974151			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.564799	24.80903	0.703033	2.833779

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.12913983	1.12913983	2.28	0.1529
BERA	2	7.85102389	3.92551194	7.94	0.0050

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.52292597	0.52292597	1.06	0.3211
BERA	2	7.85102389	3.92551194	7.94	0.0050


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.4943
R-Square 0.5648
Adj R-Square 0.4715

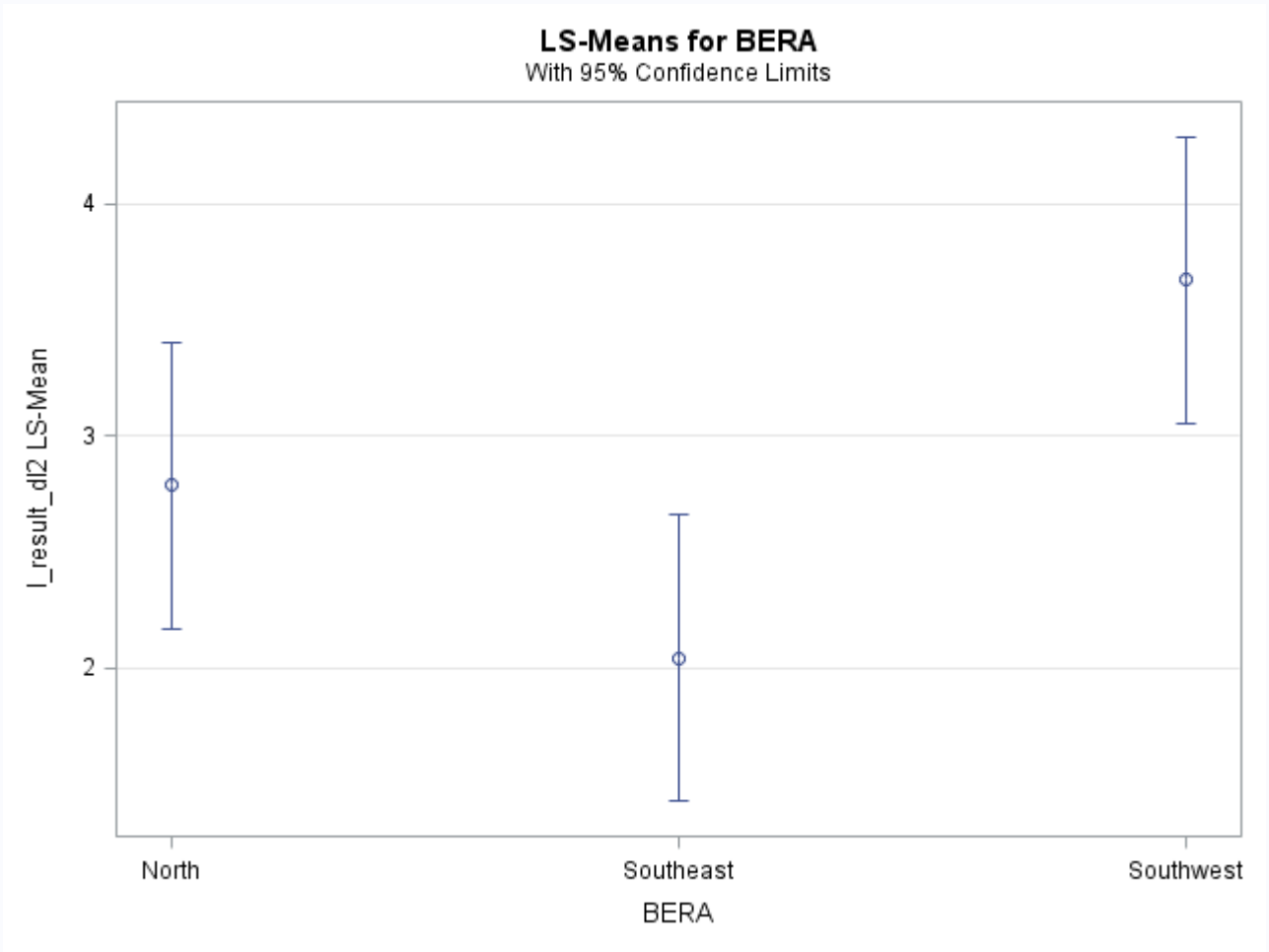
PAHs Total LMW PAHs
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.78700723	1
Southeast	2.04357770	2
Southwest	3.67075280	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1966	0.1108
2	0.1966		0.0037
3	0.1108	0.0037	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4
3
2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PAHs Total PAH

NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

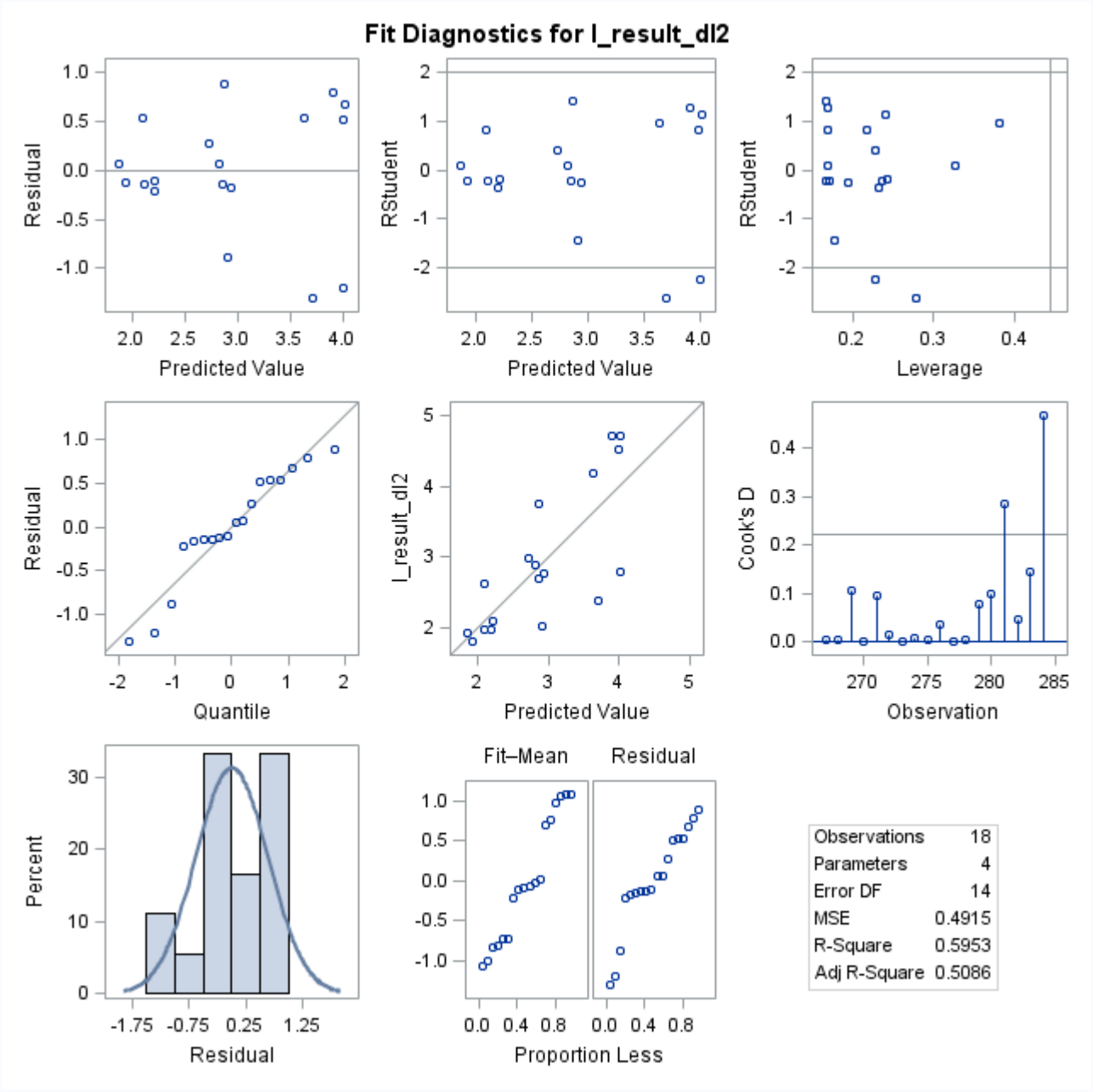
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	10.12236471	3.37412157	6.87	0.0045
Error	14	6.88072042	0.49148003		
Corrected Total	17	17.00308513			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.595325	23.86493	0.701056	2.937601

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.78277433	0.78277433	1.59	0.2276
BERA	2	9.33959037	4.66979519	9.50	0.0025

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.26781239	0.26781239	0.54	0.4726
BERA	2	9.33959037	4.66979519	9.50	0.0025


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.4915
R-Square 0.5953
Adj R-Square 0.5086

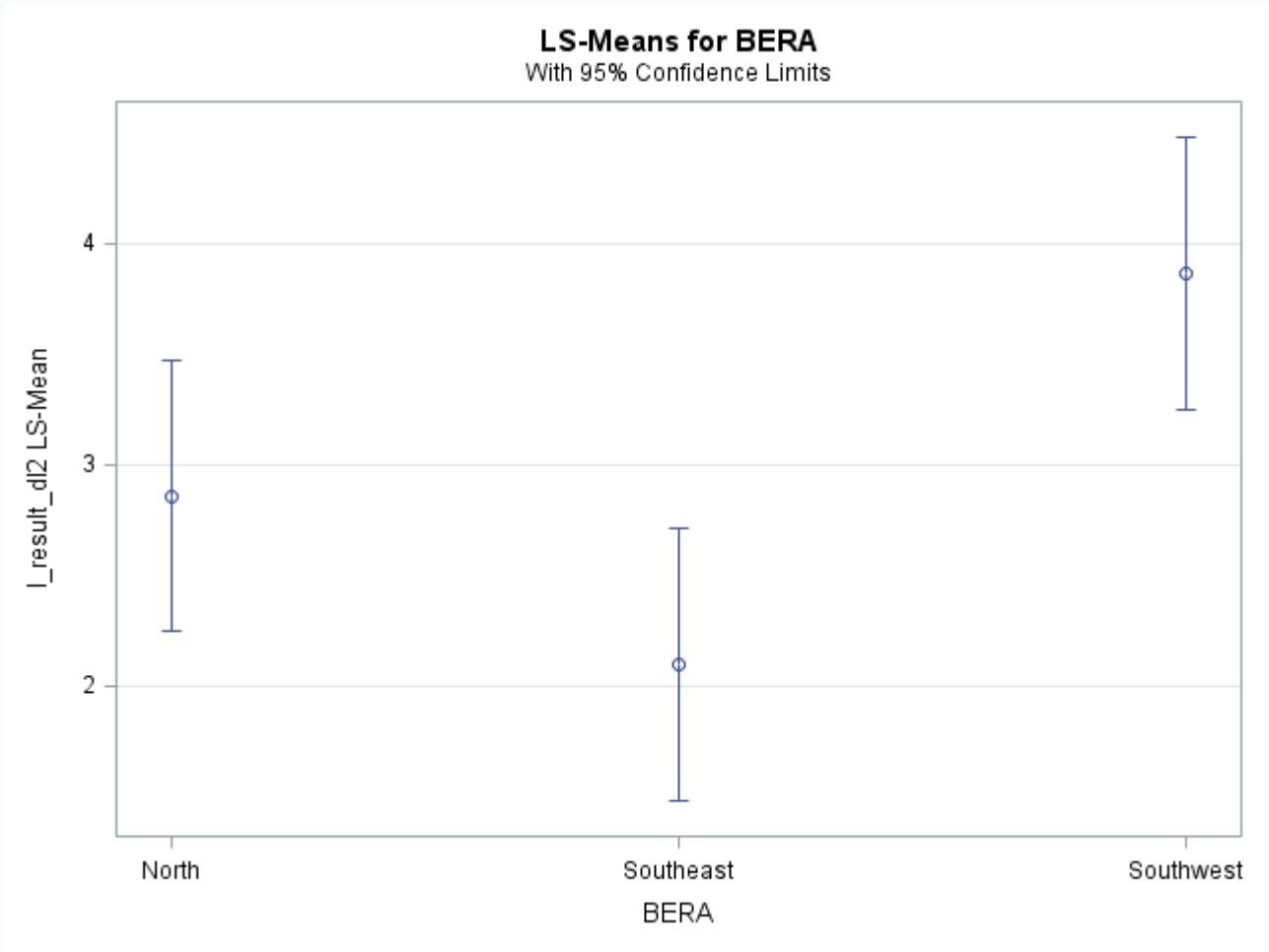
PAHs Total PAH
NBSA Whole Body American Eel ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.85666356	1
Southeast	2.09240613	2
Southwest	3.86373289	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1797	0.0638
2	0.1797		0.0018
3	0.0638	0.0018	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4
3
2
North
Southeast
Southwest
BERA

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

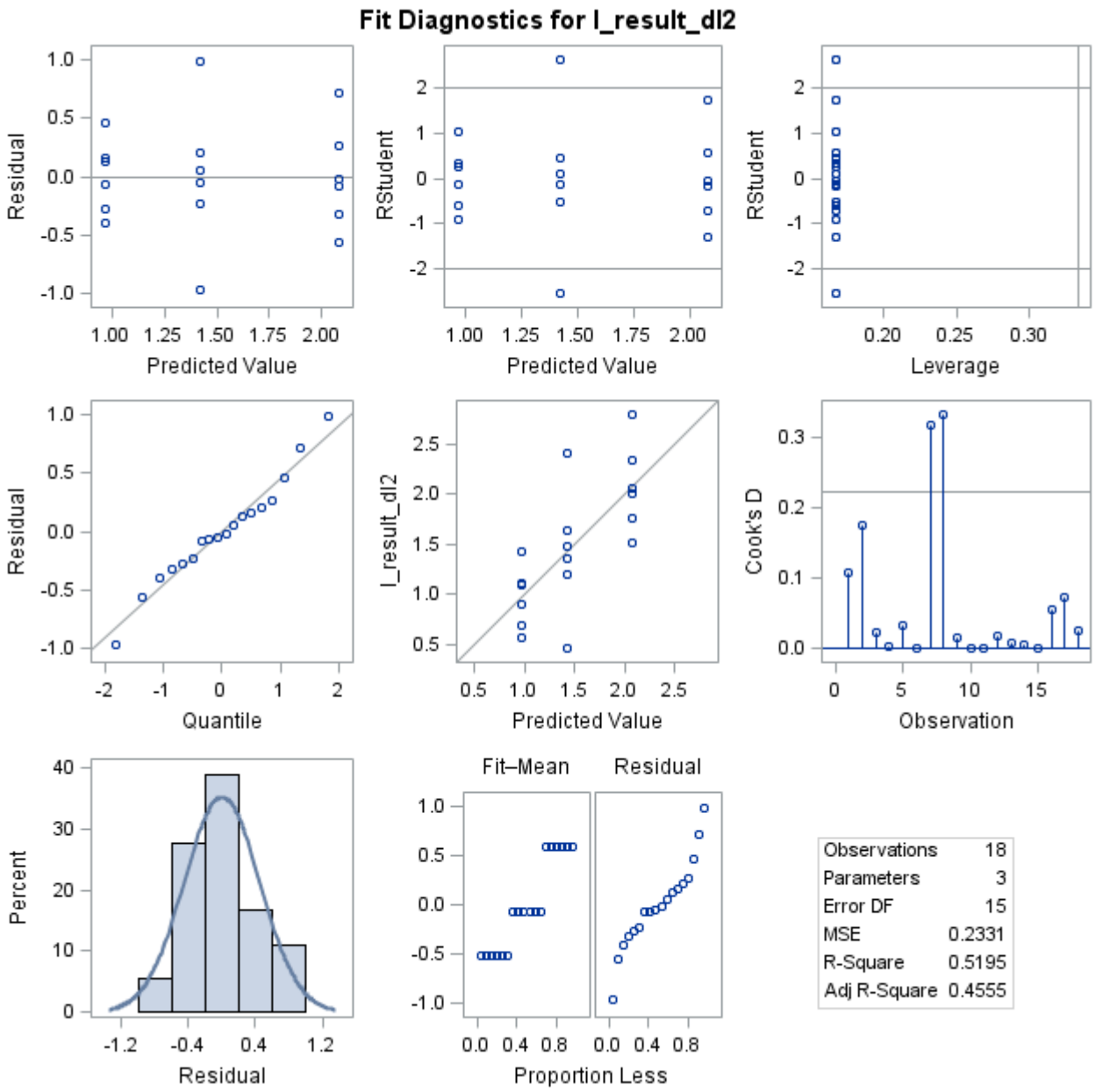
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.78111580	1.89055790	8.11	0.0041
Error	15	3.49661852	0.23310790		
Corrected Total	17	7.27773433			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.519546	32.42045	0.482812	1.489222

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.78111580	1.89055790	8.11	0.0041

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.78111580	1.89055790	8.11	0.0041


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.2331
R-Square 0.5195
Adj R-Square 0.4555

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1978	0.0989	1.07	0.3680
Error	15	1.3877	0.0925		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	11.75	0.0028
Error	9.3122		

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	2.08126437	0.44732674
Southeast	**6**	1.42168983	0.63326074
Southwest	**6**	0.96471156	0.31337411

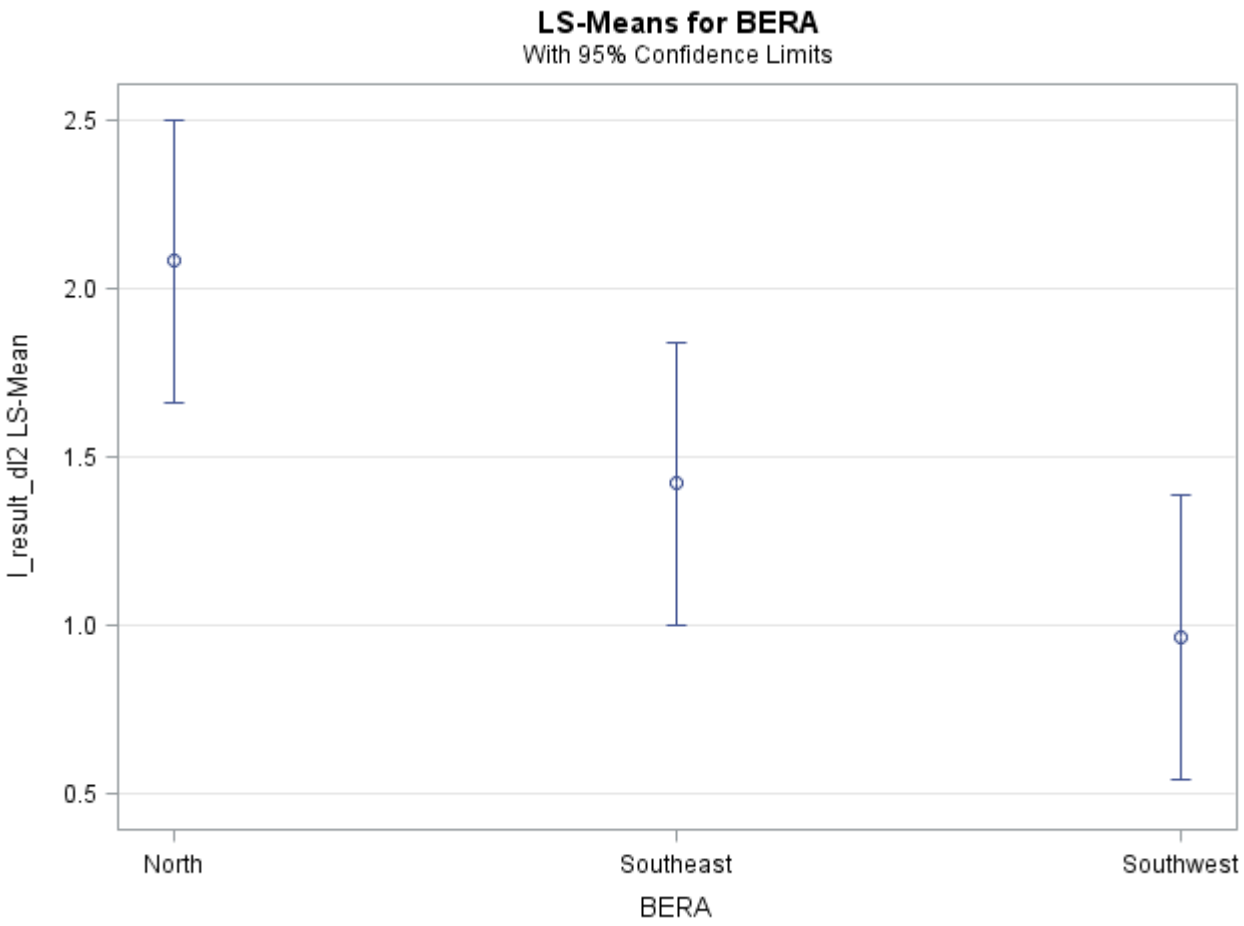
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.08126437	1
Southeast	1.42168983	2
Southwest	0.96471156	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0769	0.0031
2	0.0769		0.2603
3	0.0031	0.2603	


LS-Means for BERA
With 95% Confidence Limits
2.5
2.0
1.5
1.0
0.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

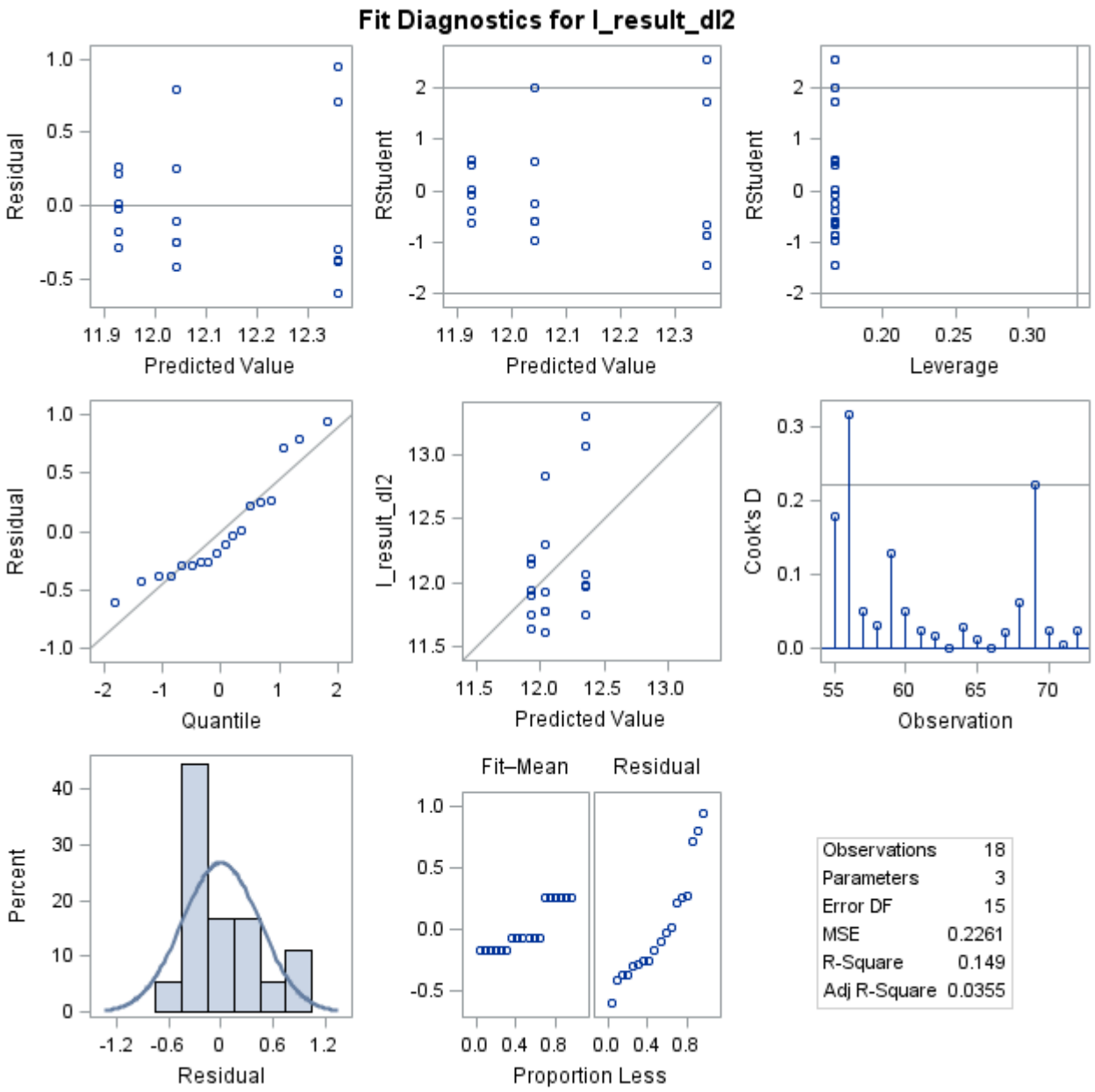
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.59372294	0.29686147	1.31	0.2982
Error	15	3.39138781	0.22609252		
Corrected Total	17	3.98511075			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.148985	3.926833	0.475492	12.10879

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.59372294	0.29686147	1.31	0.2982

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.59372294	0.29686147	1.31	0.2982


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.2261
R-Square 0.149
Adj R-Square 0.0355

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.3058	0.1529	3.05	0.0773
Error	15	0.7515	0.0501		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.14	0.3662
Error	8.3581		

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	6	12.3572133	0.65401620
Southeast	6	11.9280920	0.21570951
Southwest	6	12.0410558	0.45167442

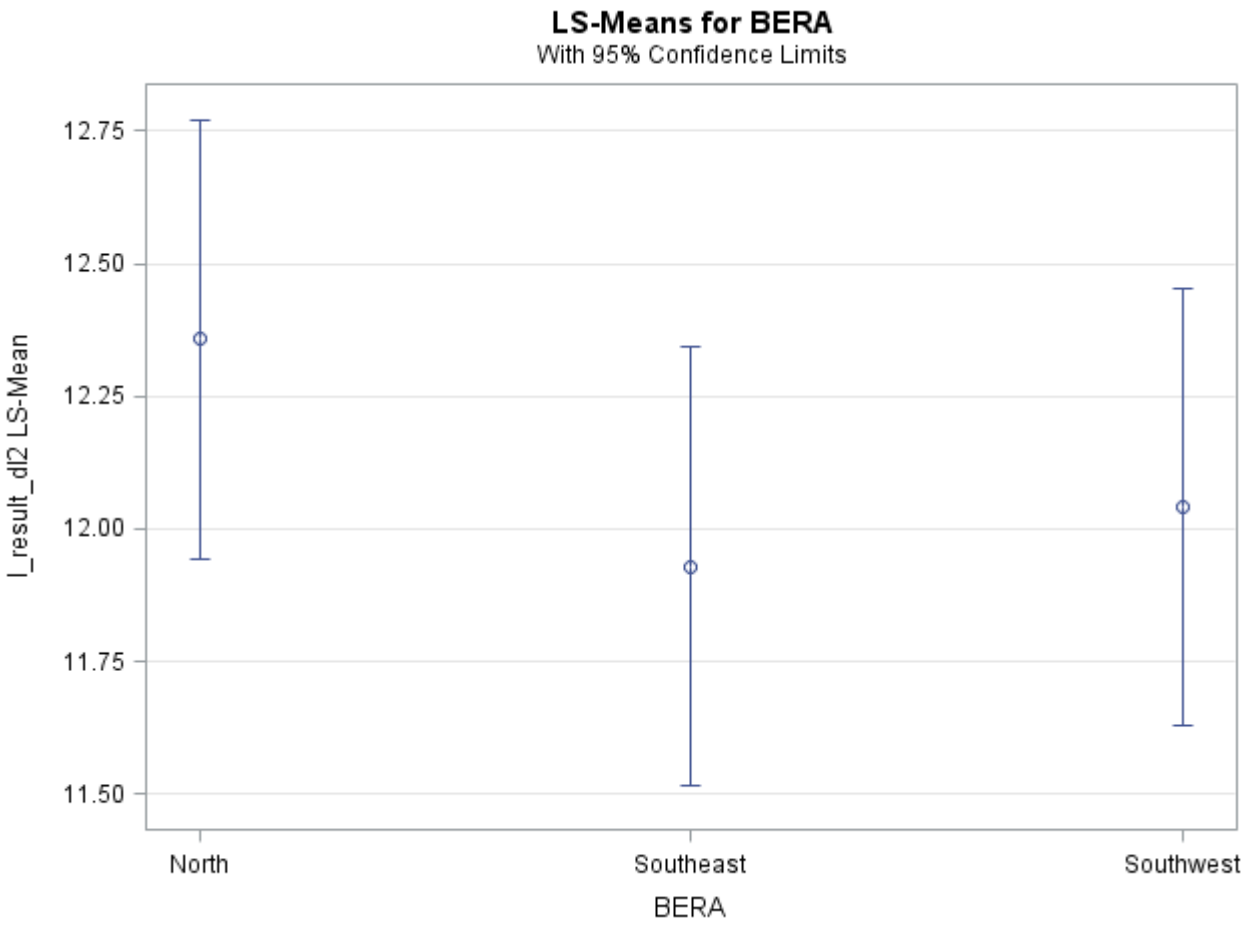
PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.3572133	1
Southeast	11.9280920	2
Southwest	12.0410558	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2913	0.4987
2	0.2913		0.9114
3	0.4987	0.9114	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
12.75
12.50
12.25
12.00
11.75
11.50
North
Southeast
Southwest
BERA

Pesticides Dieldrin
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Dieldrin
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

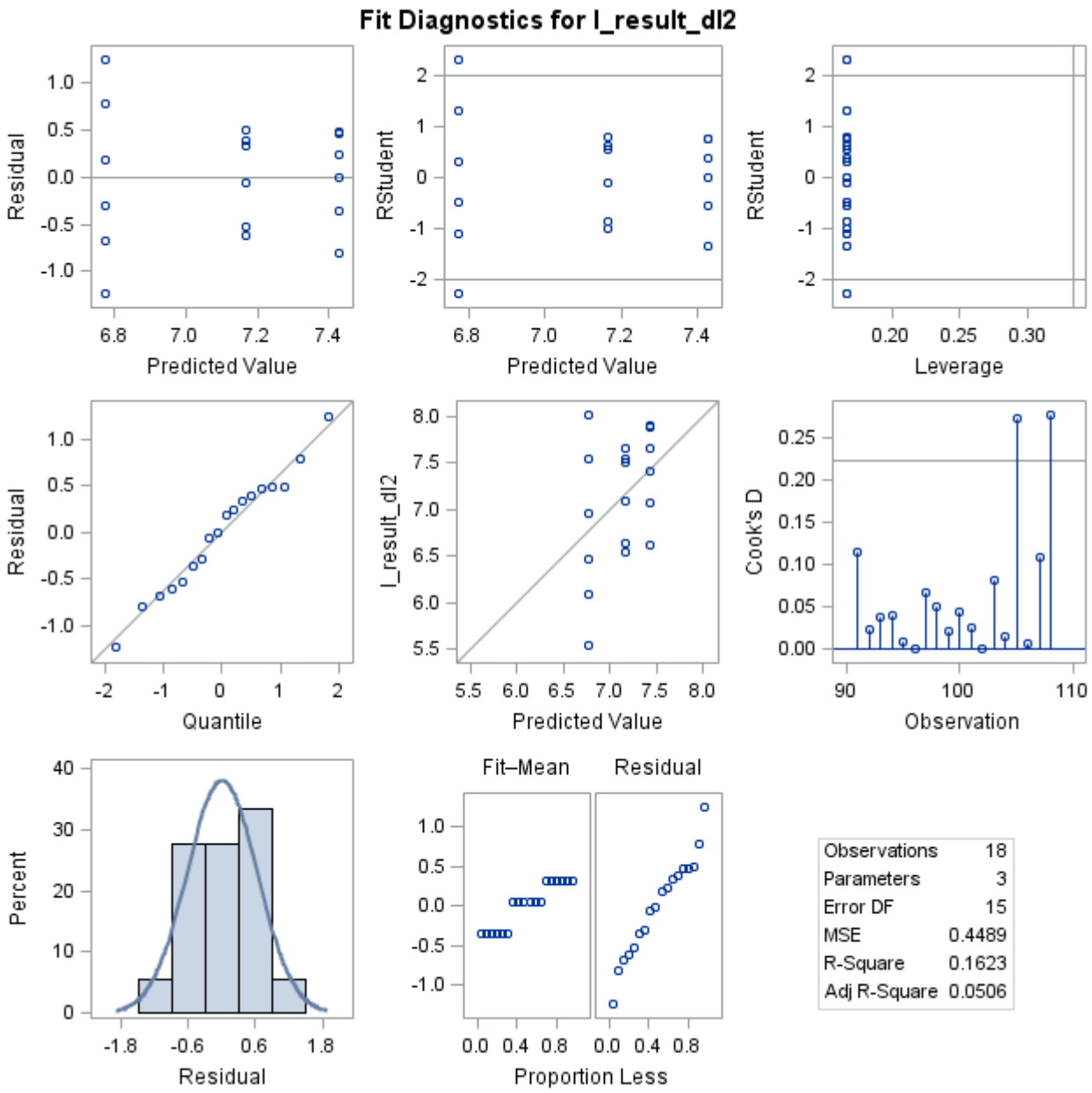
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.30454707	0.65227354	1.45	0.2649
Error	15	6.73331634	0.44888776		
Corrected Total	17	8.03786341			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.162300	9.406699	0.669991	7.122486

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.30454707	0.65227354	1.45	0.2649

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.30454707	0.65227354	1.45	0.2649


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4489
R-Square 0.1623
Adj R-Square 0.0506

Pesticides Dieldrin
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.0454	0.5227	2.94	0.0835
Error	15	2.6633	0.1776		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.16	0.3537
Error	9.5284		

Pesticides Dieldrin

NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	7.42767461	0.50425102
Southeast	**6**	7.16701496	0.48444681
Southwest	**6**	6.77276955	0.92612389

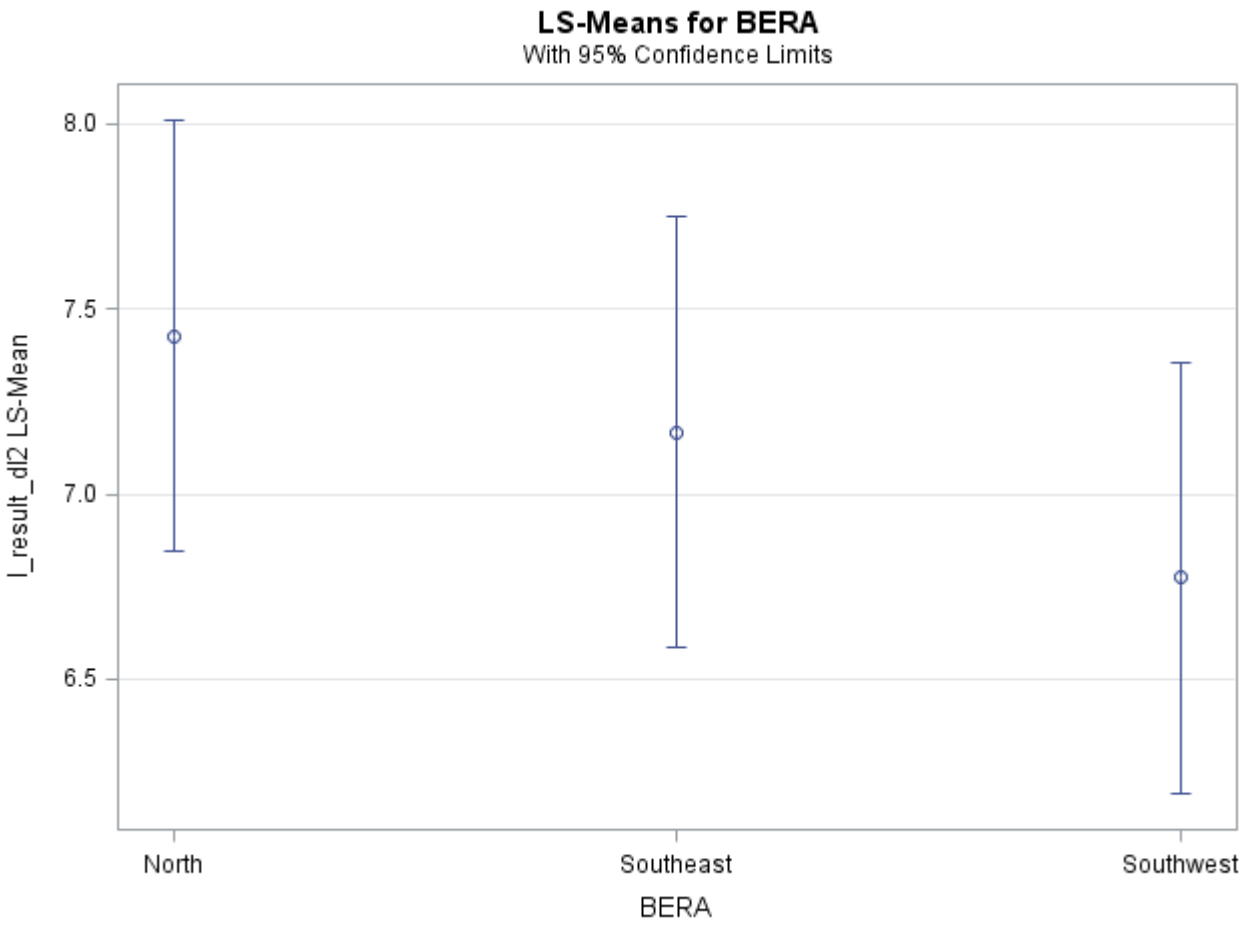
Pesticides Dieldrin
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.42767461	1
Southeast	7.16701496	2
Southwest	6.77276955	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7819	0.2400
2	0.7819		0.5766
3	0.2400	0.5766	


LS-Means for BERA
With 95% Confidence Limits
8.0
7.5
7.0
6.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Heptachlor epoxide
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Heptachlor epoxide
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

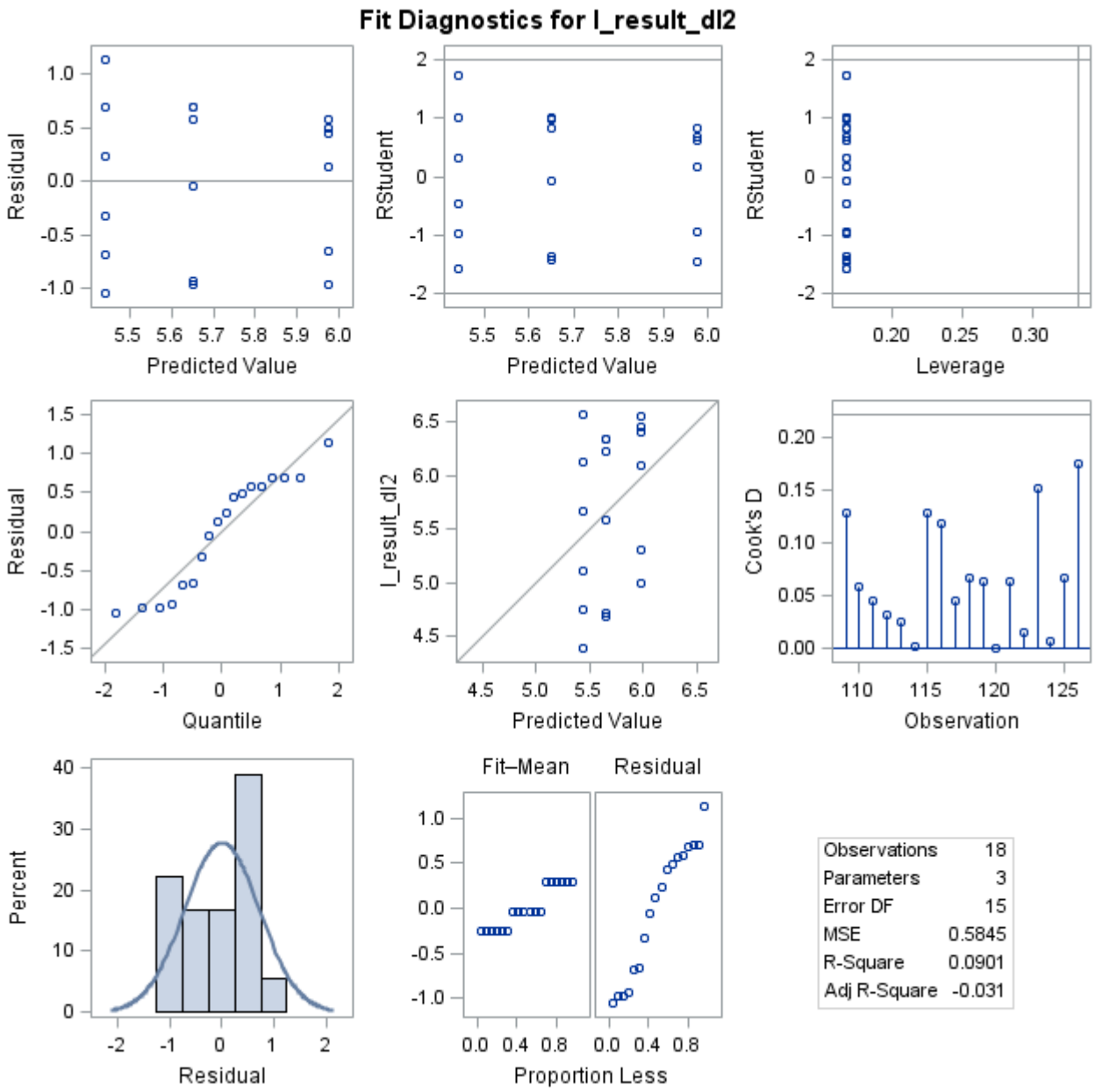
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.86860449	0.43430225	0.74	0.4924
Error	15	8.76688729	0.58445915		
Corrected Total	17	9.63549178			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.090146	13.43957	0.764499	5.688419

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.86860449	0.43430225	0.74	0.4924

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.86860449	0.43430225	0.74	0.4924


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.5845
R-Square 0.0901
Adj R-Square -0.031

Pesticides Heptachlor epoxide
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1620	0.0810	0.51	0.6133
Error	15	2.4047	0.1603		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.75	0.4961
Error	9.8844		

Pesticides Heptachlor epoxide
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	5.97426456	0.65642587
Southeast	**6**	5.65086796	0.78699137
Southwest	**6**	5.44012553	0.83852676

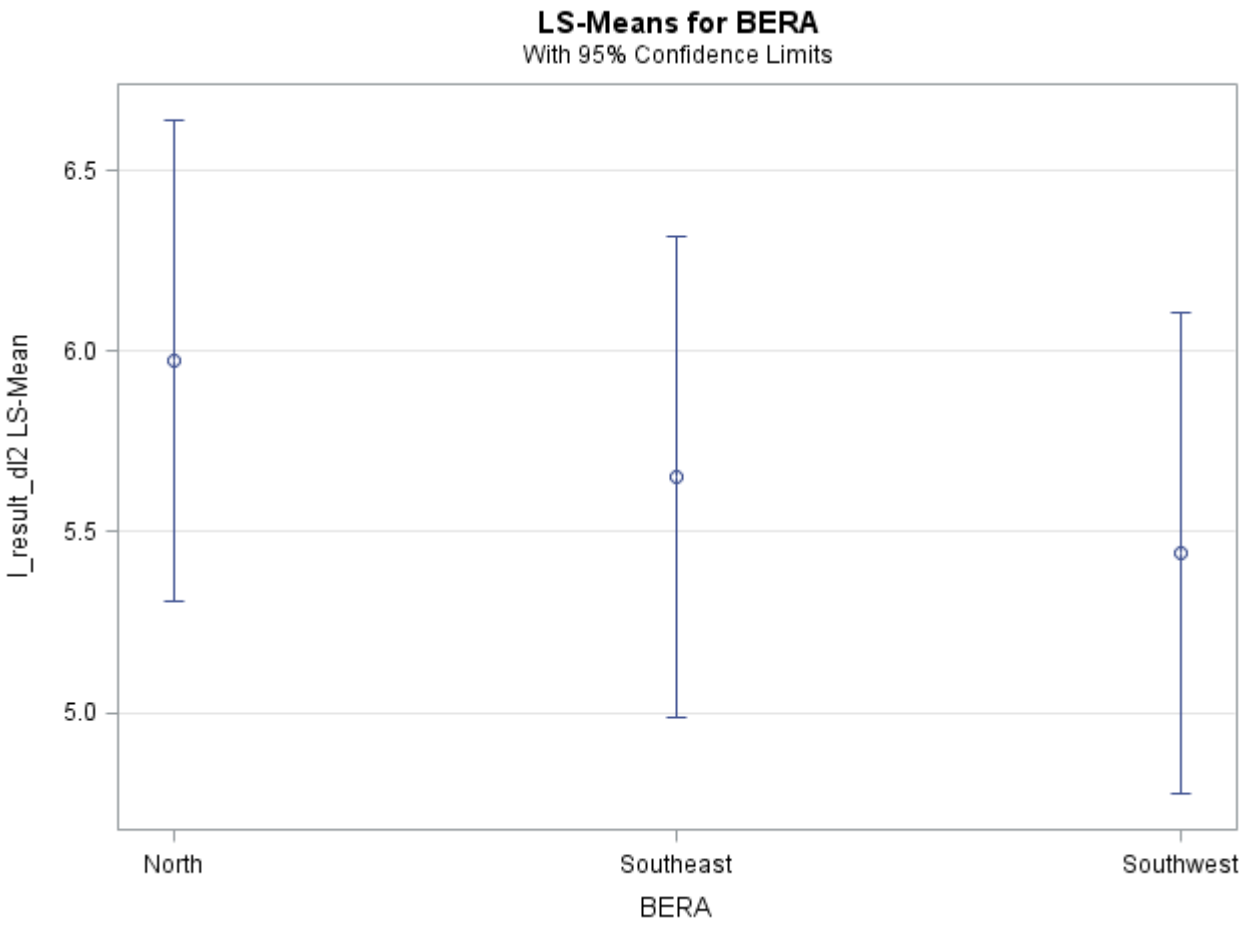
Pesticides Heptachlor epoxide
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	5.97426456	1
Southeast	5.65086796	2
Southwest	5.44012553	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7483	0.4655
2	0.7483		0.8829
3	0.4655	0.8829	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
6.5
6.0
5.5
5.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Hexachlorobenzene
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

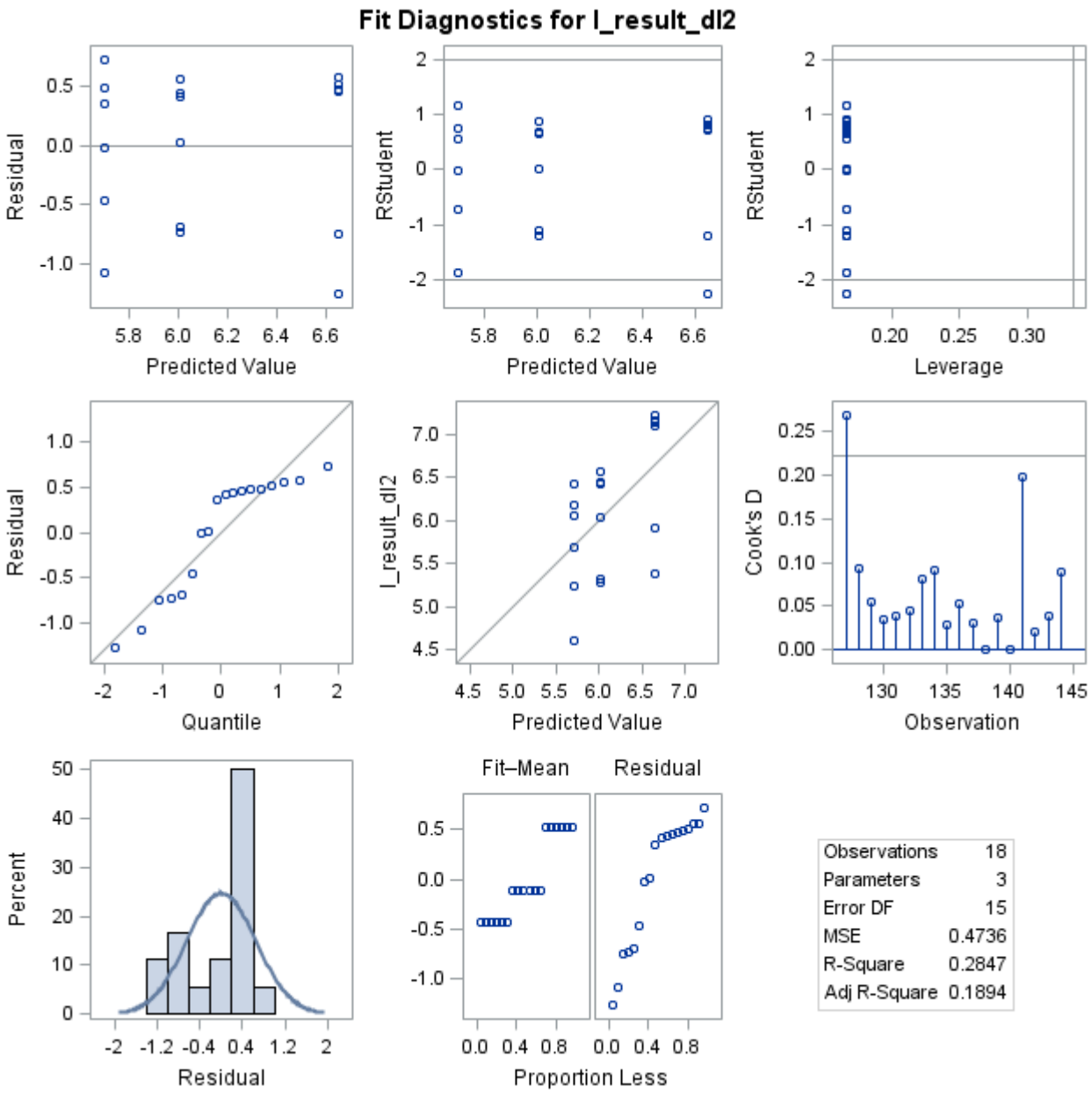
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.82751402	1.41375701	2.99	0.0810
Error	15	7.10328291	0.47355219		
Corrected Total	17	9.93079693			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.284722	11.24835	0.688151	6.117795

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.82751402	1.41375701	2.99	0.0810

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.82751402	1.41375701	2.99	0.0810


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4736
R-Square 0.2847
Adj R-Square 0.1894

Pesticides Hexachlorobenzene
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1811	0.0906	0.53	0.5968
Error	15	2.5426	0.1695		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.39	0.1429
Error	9.8464		

Pesticides Hexachlorobenzene
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	6.64888556	0.79386518
Southeast	**6**	6.00743922	0.58098095
Southwest	**6**	5.69706141	0.67297533

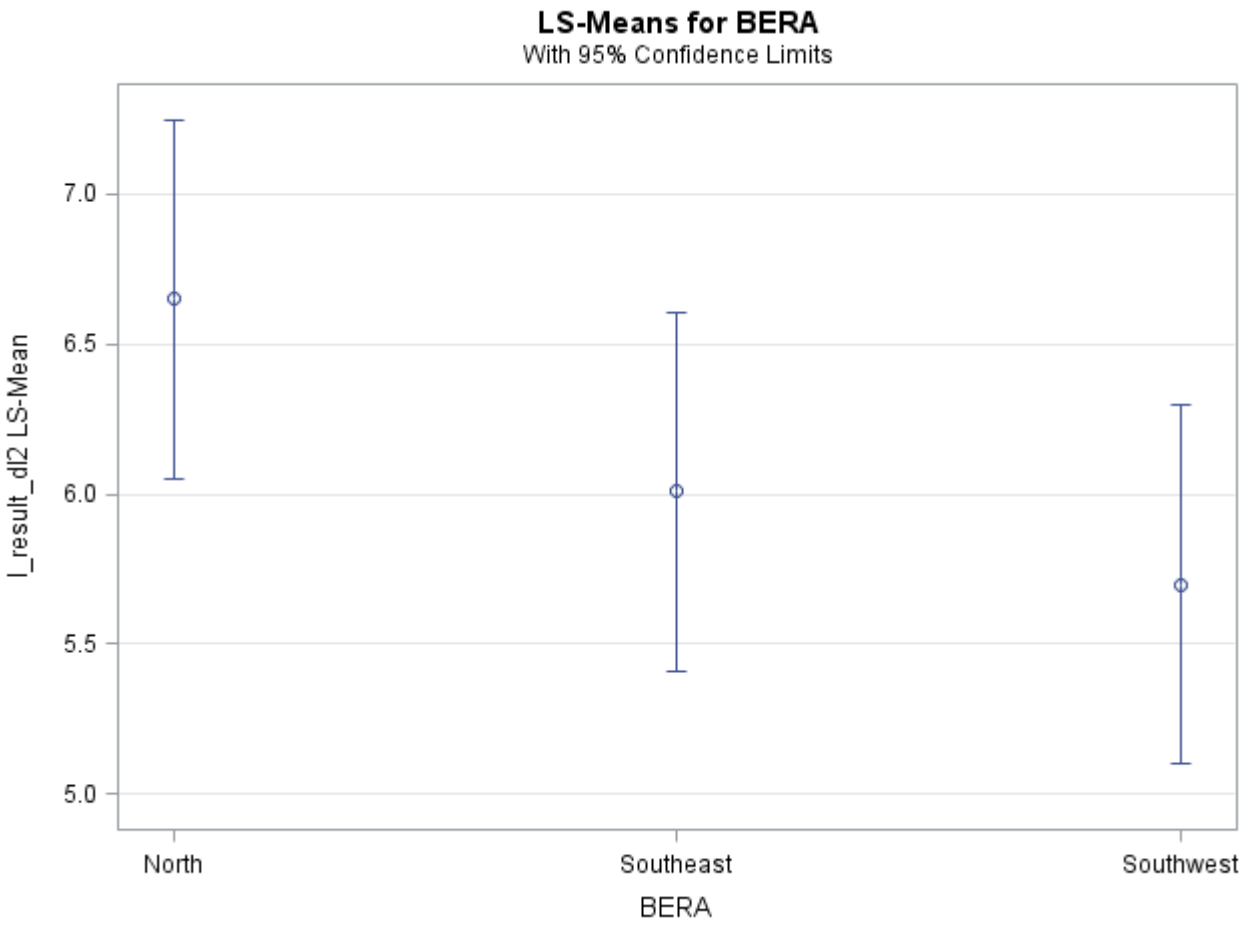
Pesticides Hexachlorobenzene
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	6.64888556	1
Southeast	6.00743922	2
Southwest	5.69706141	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2702	0.0728
2	0.2702		0.7199
3	0.0728	0.7199	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
7.0
6.5
6.0
5.5
5.0
North
Southeast
Southwest
BERA

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

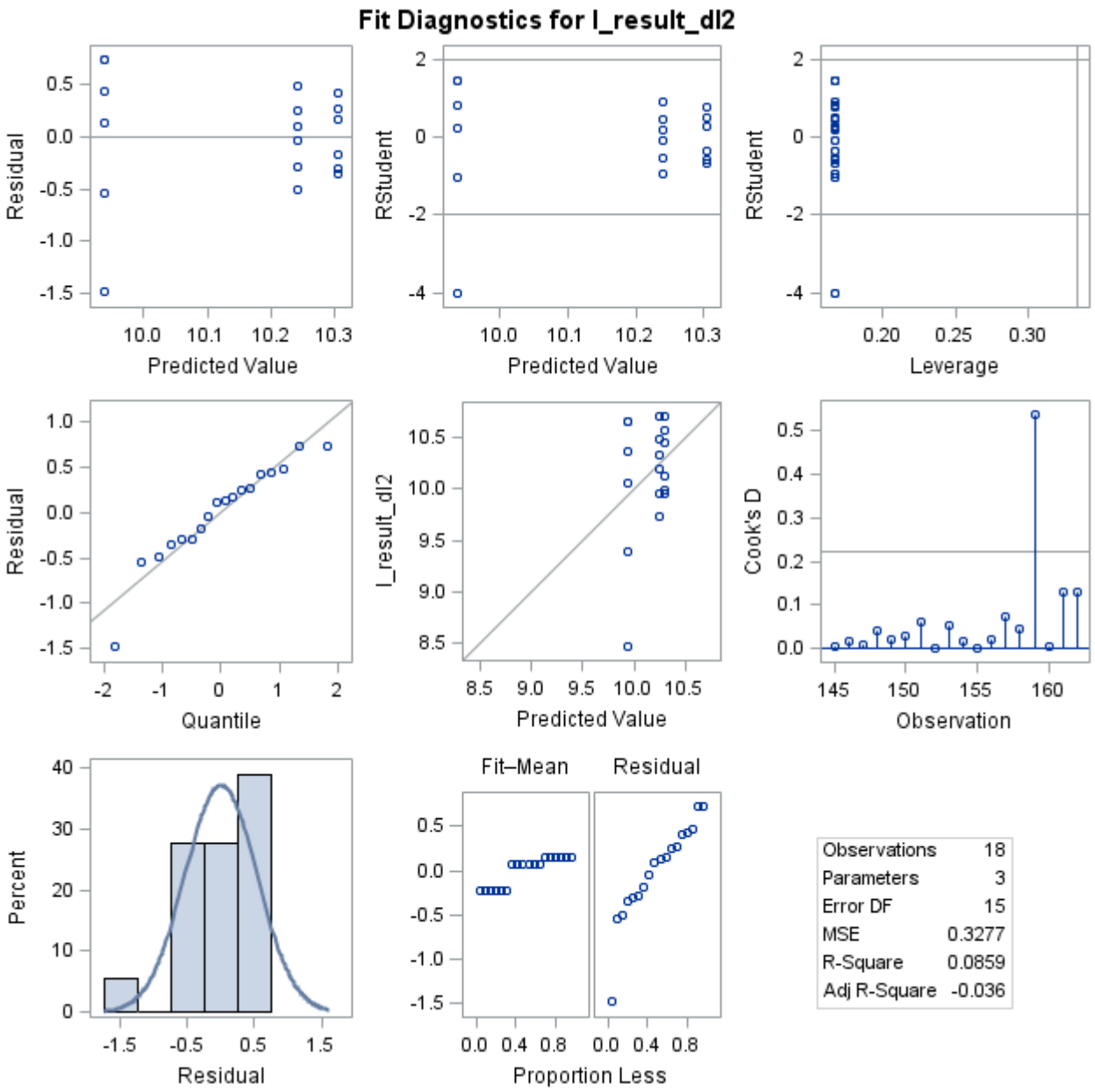
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.46164570	0.23082285	0.70	0.5100
Error	15	4.91528082	0.32768539		
Corrected Total	17	5.37692651			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.085857	5.633773	0.572438	10.16083

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.46164570	0.23082285	0.70	0.5100

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.46164570	0.23082285	0.70	0.5100


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.3277
R-Square 0.0859
Adj R-Square -0.036

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.1371	0.5686	2.64	0.1038
Error	15	3.2252	0.2150		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.45	0.6538
Error	9.2461		

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	10.3044241	0.32047795
Southeast	**6**	10.2407122	0.35544378
Southwest	**6**	9.9373562	0.86833736

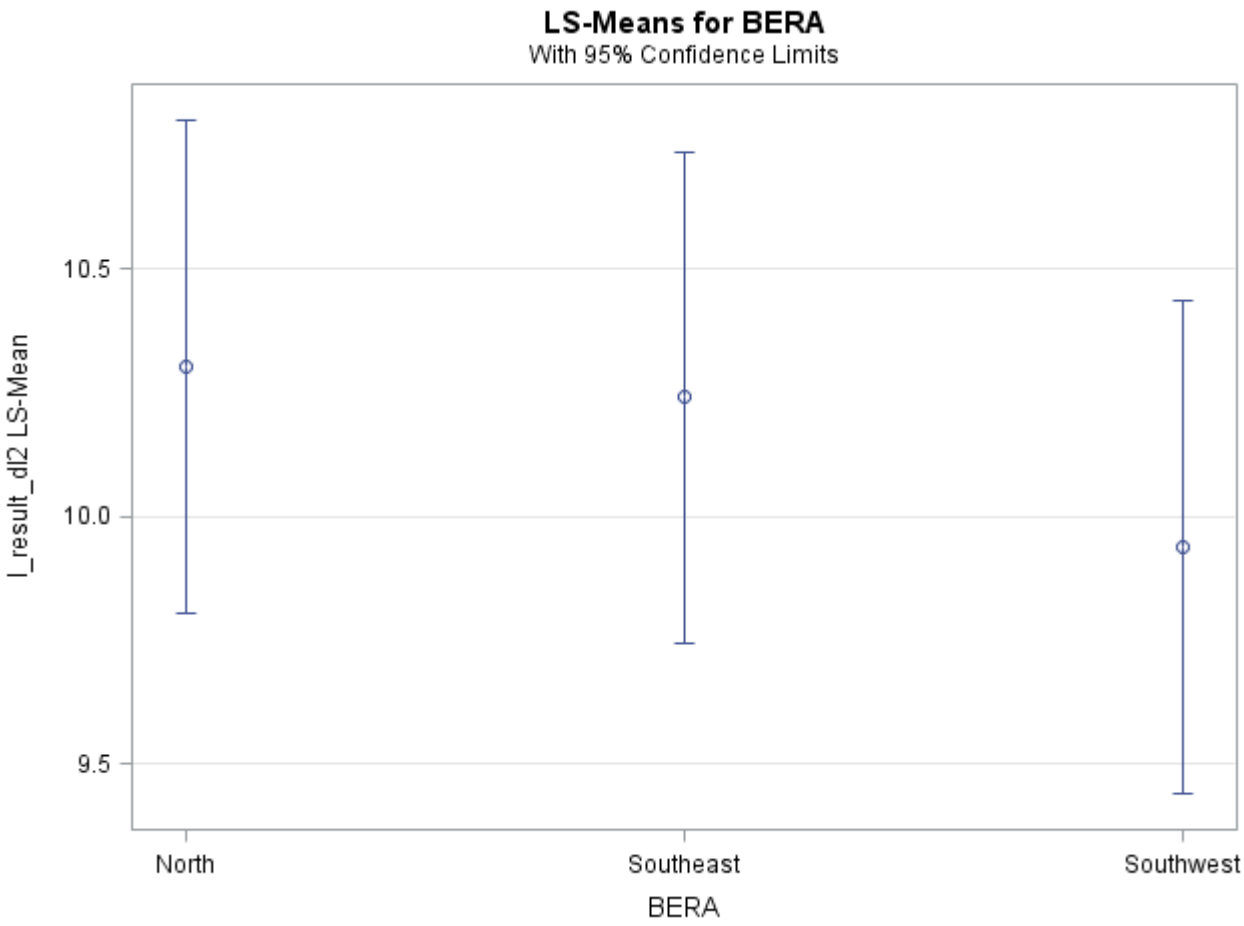
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	10.3044241	1
Southeast	10.2407122	2
Southwest	9.9373562	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9797	0.5224
2	0.9797		0.6377
3	0.5224	0.6377	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.5
10.0
9.5
North
Southeast
Southwest
BERA

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

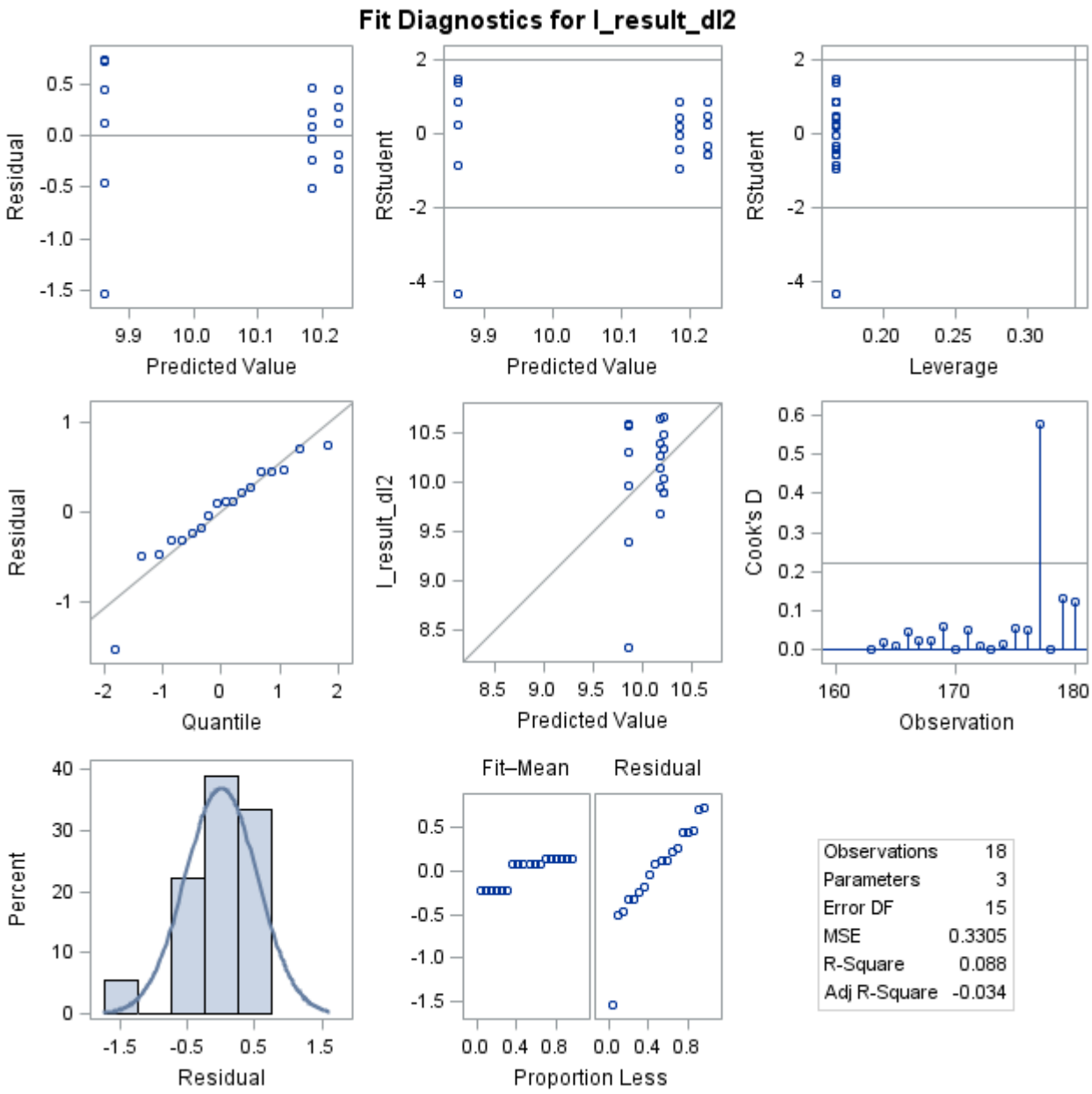
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.47843038	0.23921519	0.72	0.5011
Error	15	4.95734489	0.33048966		
Corrected Total	17	5.43577527			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.088015	5.697542	0.574882	10.09001

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.47843038	0.23921519	0.72	0.5011

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.47843038	0.23921519	0.72	0.5011


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.3305
R-Square 0.088
Adj R-Square -0.034

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.2158	0.6079	2.34	0.1301
Error	15	3.8902	0.2593		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.42	0.6659
Error	9.2502		

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	10.2253661	0.32292417
Southeast	**6**	10.1839657	0.34014549
Southwest	**6**	9.8606861	0.87834504

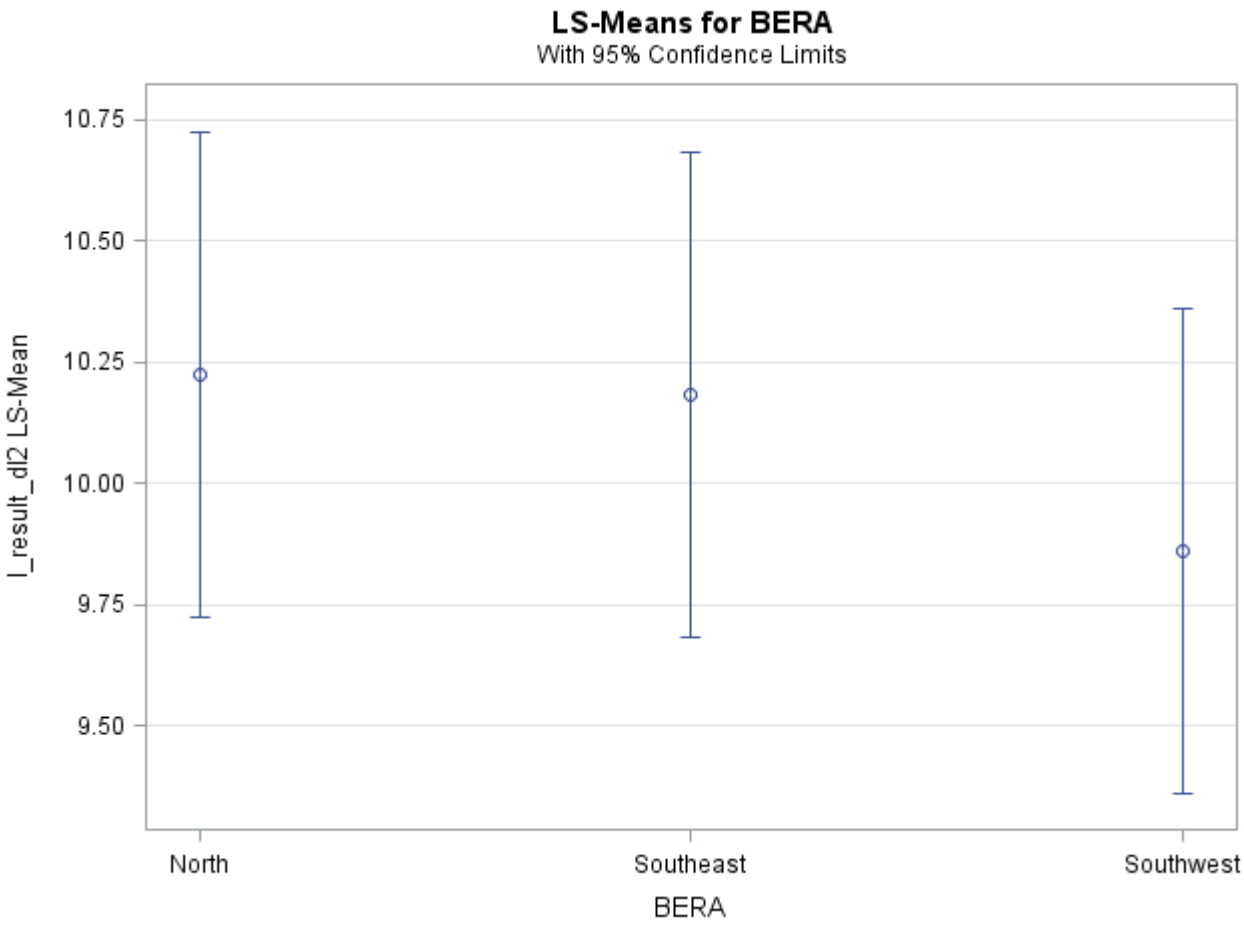
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	10.2253661	1
Southeast	10.1839657	2
Southwest	9.8606861	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9915	0.5294
2	0.9915		0.6038
3	0.5294	0.6038	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.75
10.50
10.25
10.00
9.75
9.50
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

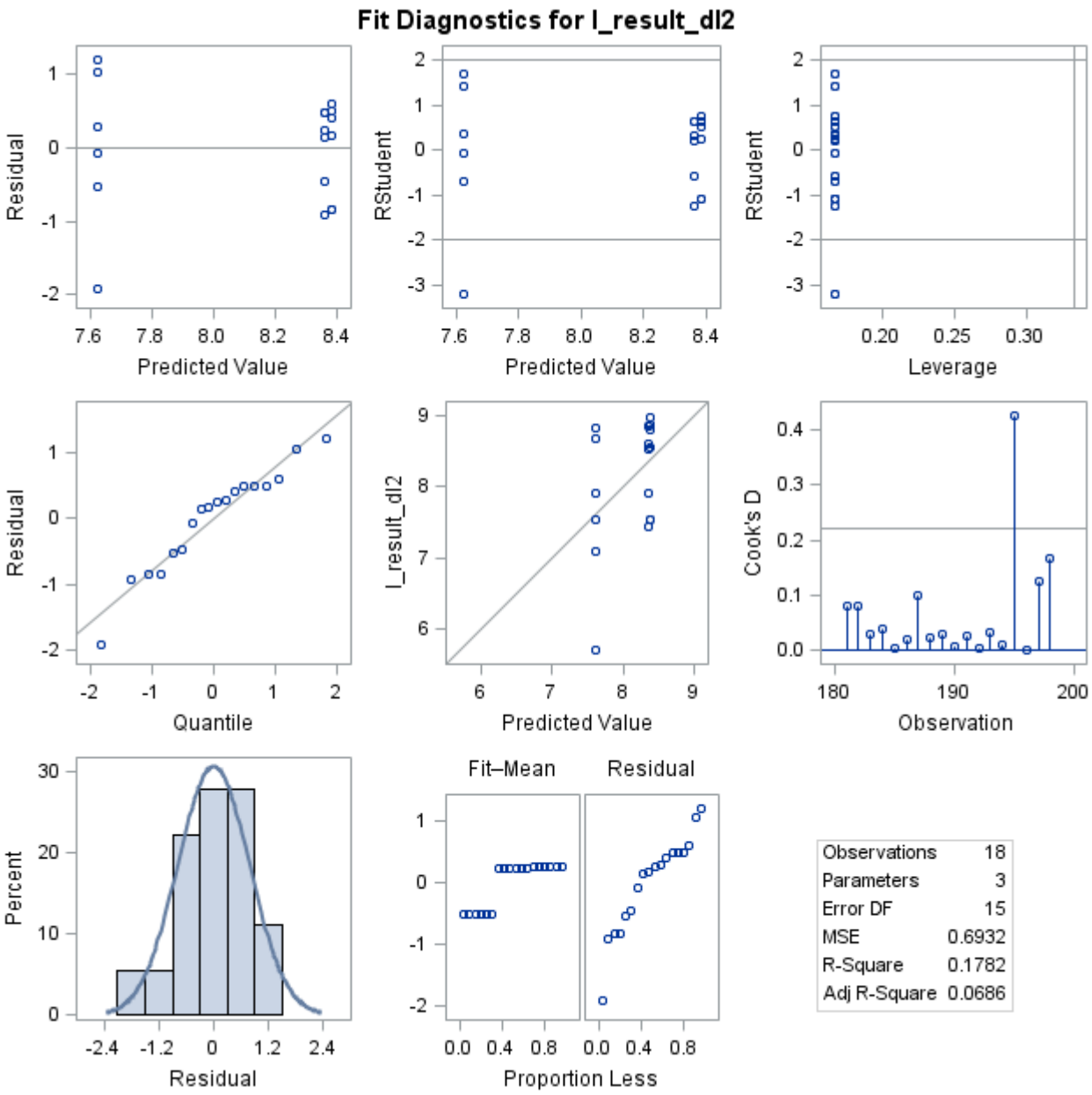
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.25489435	1.12744717	1.63	0.2294
Error	15	10.39762614	0.69317508		
Corrected Total	17	12.65252049			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.178217	10.24977	0.832571	8.122829

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.25489435	1.12744717	1.63	0.2294

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.25489435	1.12744717	1.63	0.2294


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.6932
R-Square 0.1782
Adj R-Square 0.0686

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	2.4522	1.2261	1.75	0.2079
Error	15	10.5264	0.7018		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.05	0.3881
Error	9.4756		

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	8.38448525	0.66145129
Southeast	**6**	8.36154159	0.57076960
Southwest	**6**	7.62246110	1.14727045

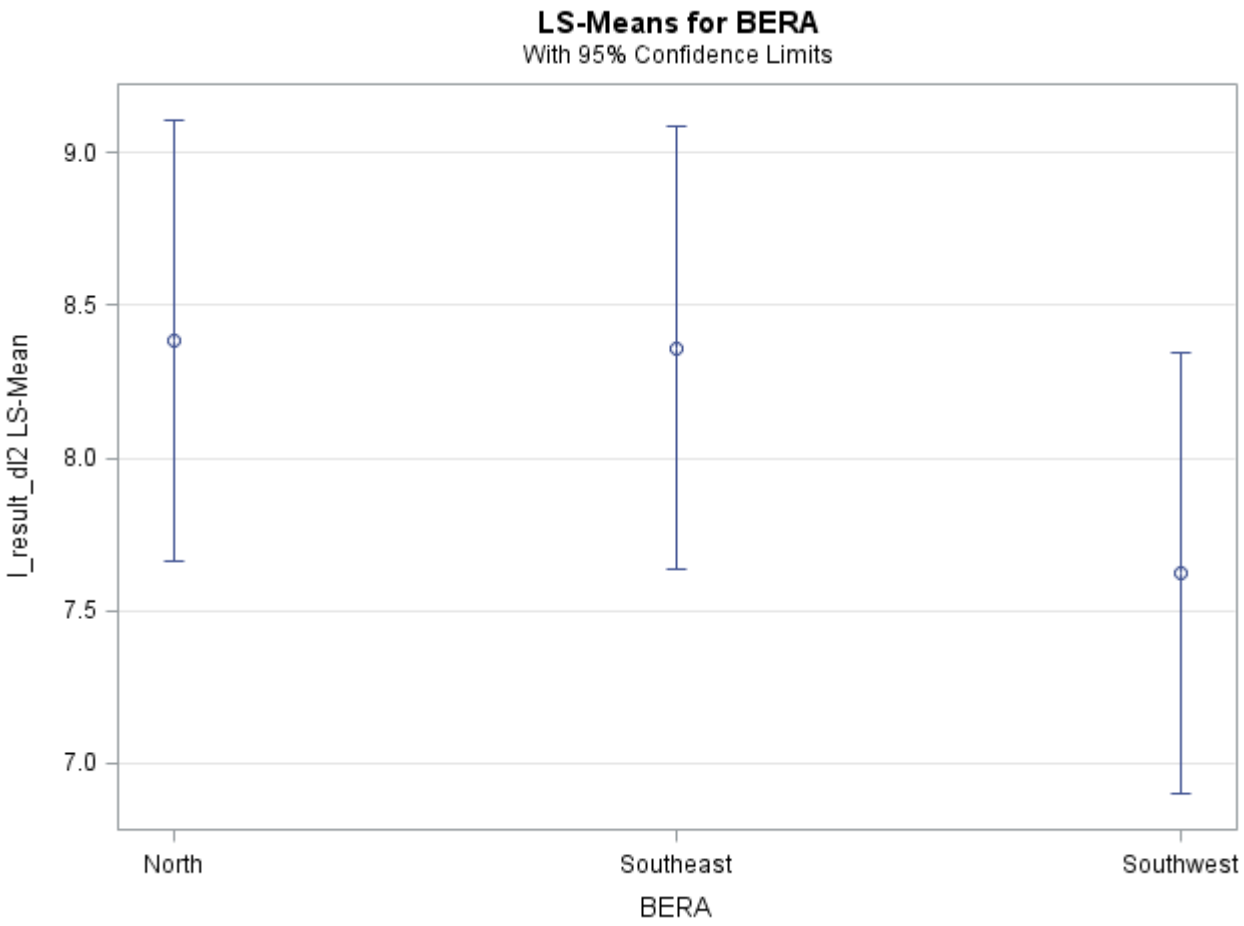
Pesticides Total alpha + gamma chlordane
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.38448525	1
Southeast	8.36154159	2
Southwest	7.62246110	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9987	0.2820
2	0.9987		0.3022
3	0.2820	0.3022	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.0
8.5
8.0
7.5
7.0
North
Southeast
Southwest
BERA

Pesticides alpha-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides alpha-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

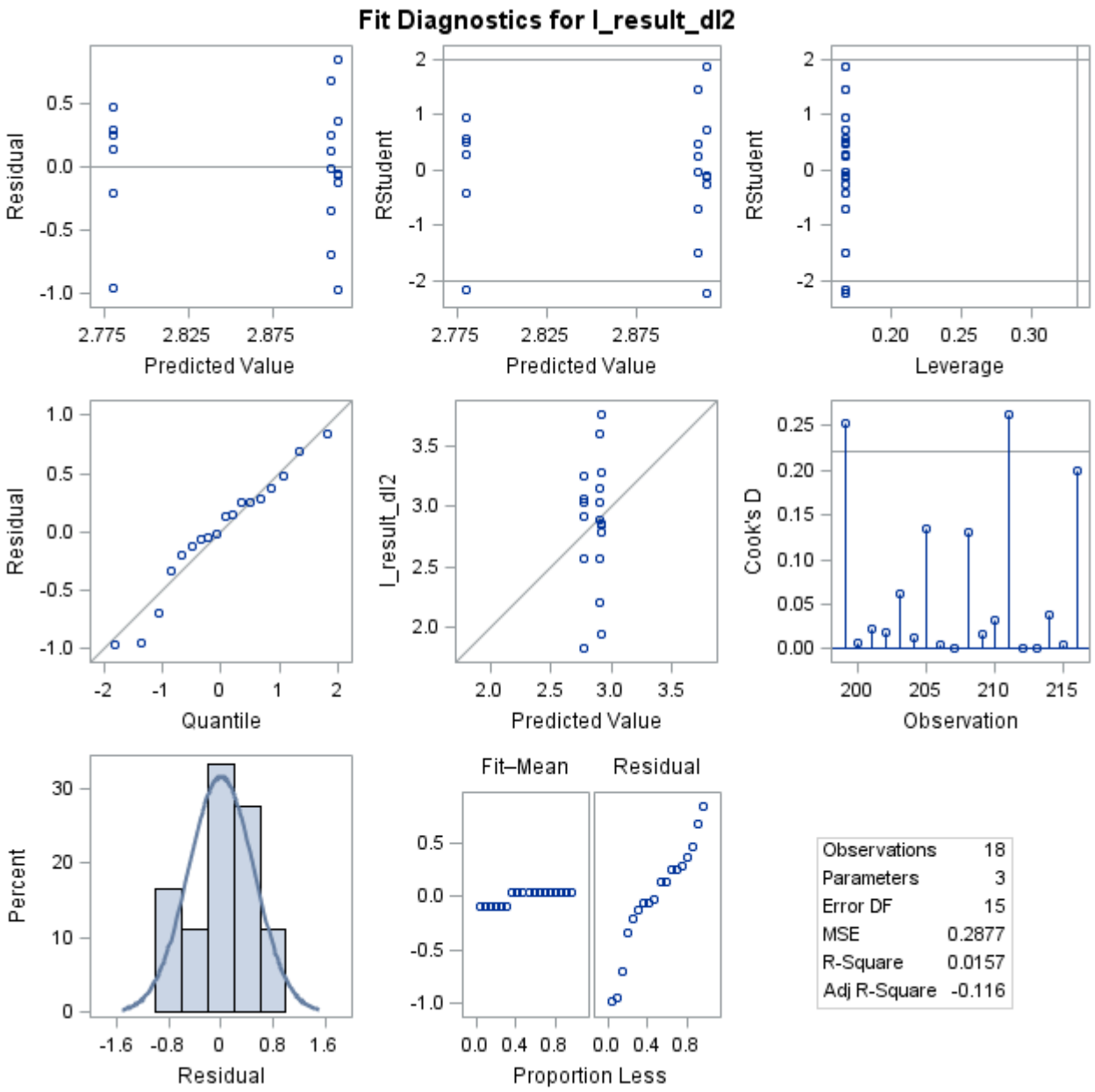
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.06871710	0.03435855	0.12	0.8883
Error	15	4.31526591	0.28768439		
Corrected Total	17	4.38398301			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.015675	18.70213	0.536362	2.867921

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.06871710	0.03435855	0.12	0.8883

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.06871710	0.03435855	0.12	0.8883


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.2877
R-Square 0.0157
Adj R-Square -0.116

Pesticides alpha-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0392	0.0196	0.17	0.8442
Error	15	1.7167	0.1144		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.12	0.8909
Error	9.9183		

Pesticides alpha-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	2.78057953	0.51844051
Southeast	**6**	2.90934587	0.48014247
Southwest	**6**	2.91383720	0.60310515

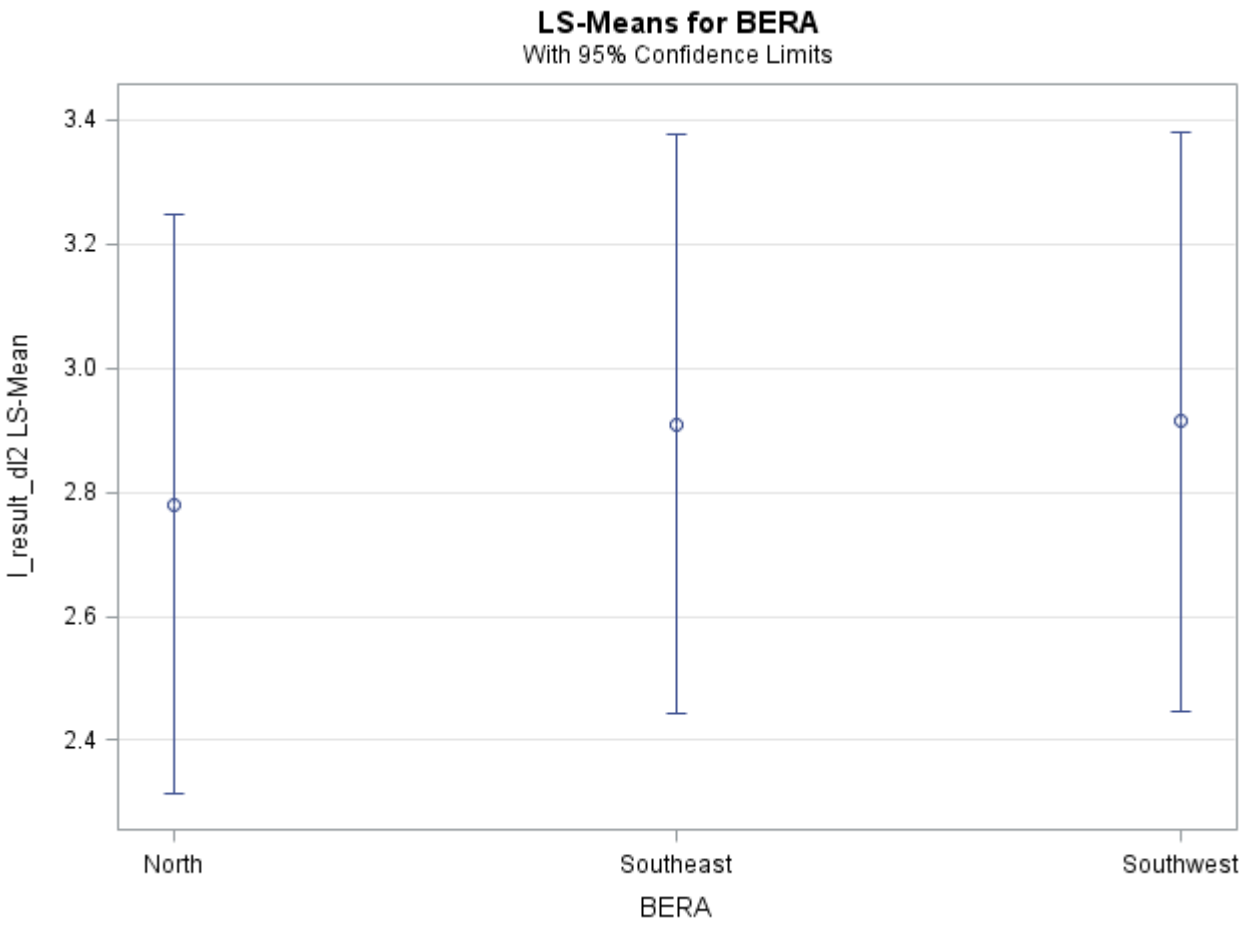
Pesticides alpha-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.78057953	1
Southeast	2.90934587	2
Southwest	2.91383720	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9097	0.9036
2	0.9097		0.9999
3	0.9036	0.9999	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.4
3.2
3.0
2.8
2.6
2.4
North
Southeast
Southwest
BERA

Pesticides beta-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides beta-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

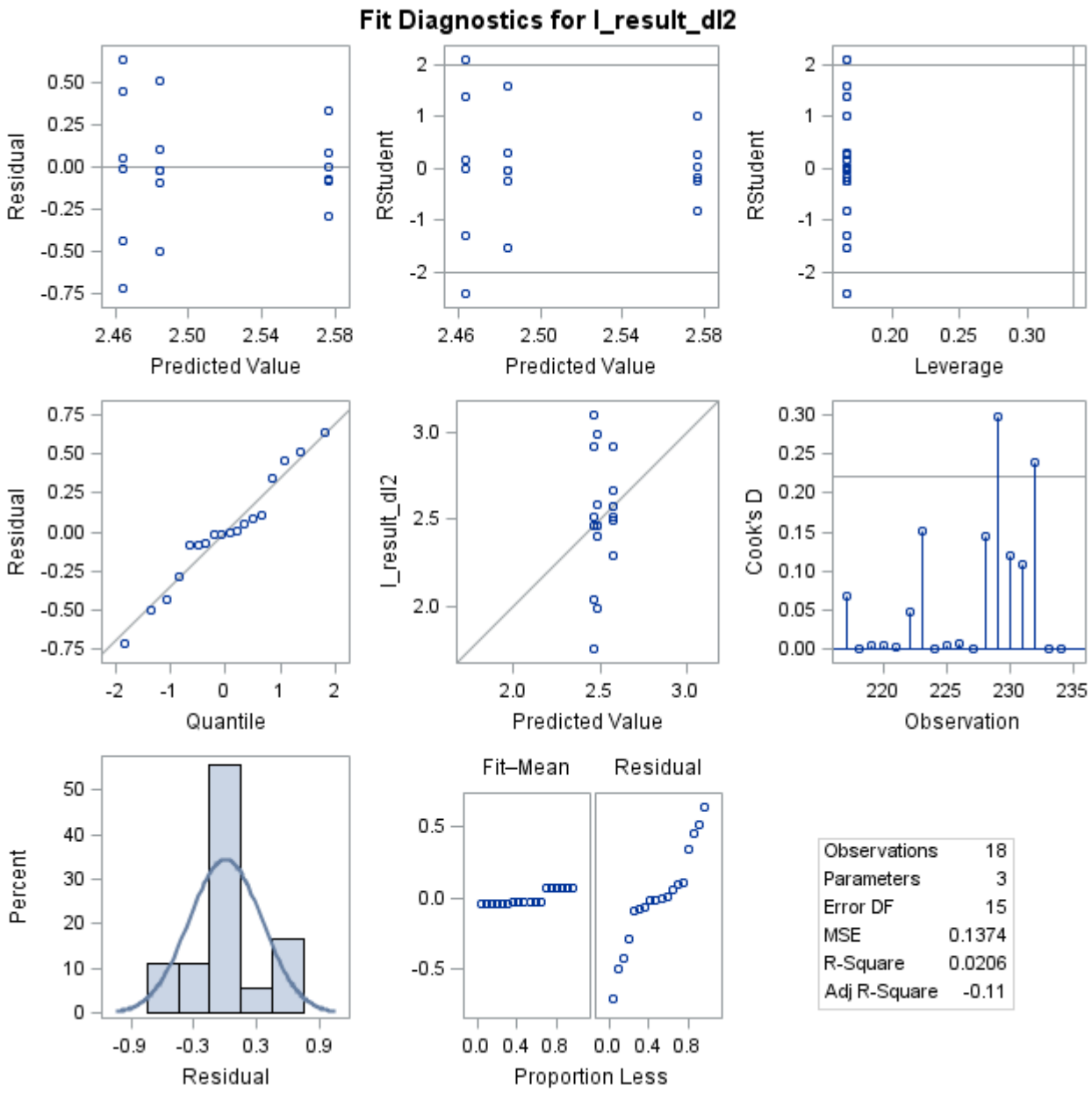
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.04345083	0.02172541	0.16	0.8551
Error	15	2.06091440	0.13739429		
Corrected Total	17	2.10436523			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.020648	14.77879	0.370667	2.508104

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.04345083	0.02172541	0.16	0.8551

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.04345083	0.02172541	0.16	0.8551


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1374
R-Square 0.0206
Adj R-Square -0.11

Pesticides beta-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1068	0.0534	2.55	0.1110
Error	15	0.3136	0.0209		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.23	0.7985
Error	9.0010		

Pesticides beta-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	2.57659077	0.20848790
Southeast	**6**	2.48401570	0.32497978
Southwest	**6**	2.46370670	0.51293647

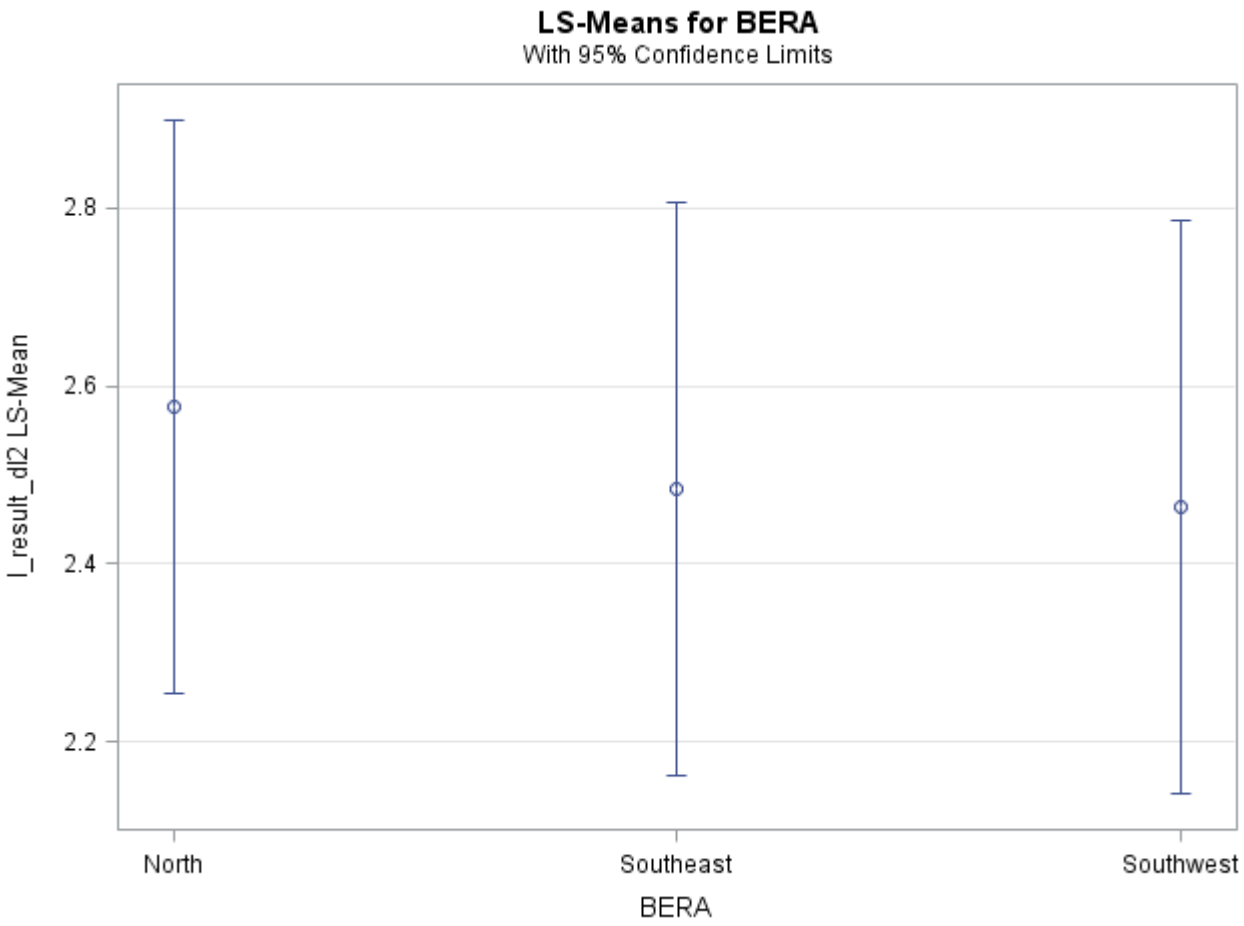
Pesticides beta-BHC
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.57659077	1
Southeast	2.48401570	2
Southwest	2.46370670	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9026	0.8592
2	0.9026		0.9950
3	0.8592	0.9950	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
2.8
2.6
2.4
2.2
North
Southeast
Southwest
BERA

Pesticides cis-Nonachlor
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides cis-Nonachlor
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

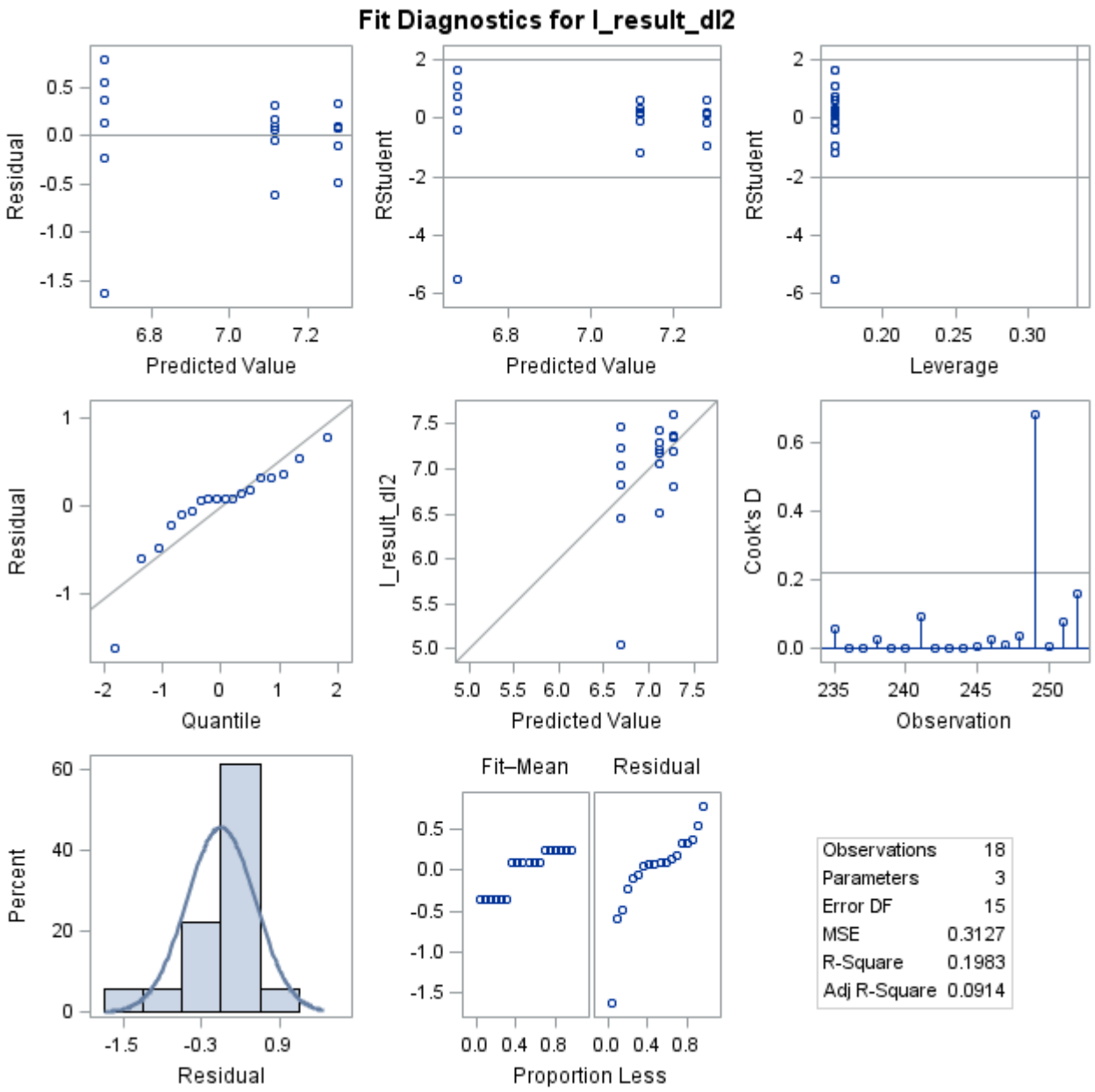
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.15970630	0.57985315	1.85	0.1907
Error	15	4.68975881	0.31265059		
Corrected Total	17	5.84946510			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.198259	7.960563	0.559152	7.024021

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.15970630	0.57985315	1.85	0.1907

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.15970630	0.57985315	1.85	0.1907


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.3127
R-Square 0.1983
Adj R-Square 0.0914

Pesticides cis-Nonachlor
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.2584	0.6292	1.76	0.2059
Error	15	5.3651	0.3577		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.41	0.2937
Error	9.1177		

Pesticides cis-Nonachlor
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	7.27864418	0.27239809
Southeast	**6**	7.11583877	0.32046177
Southwest	**6**	6.67758065	0.87238483

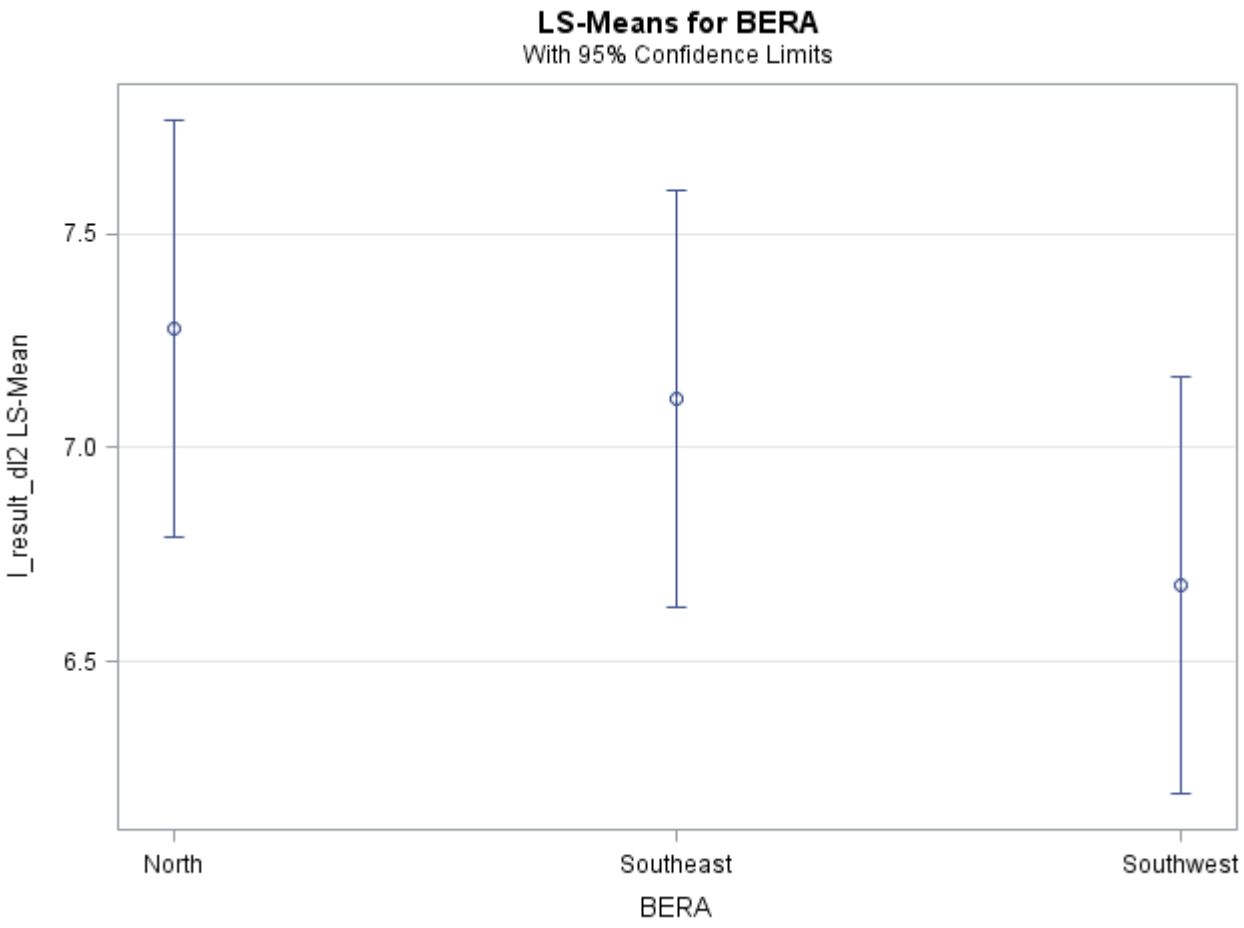
Pesticides cis-Nonachlor
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.27864418	1
Southeast	7.11583877	2
Southwest	6.67758065	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8704	0.1840
2	0.8704		0.3869
3	0.1840	0.3869	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
7.5
7.0
6.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Lipids Lipids
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

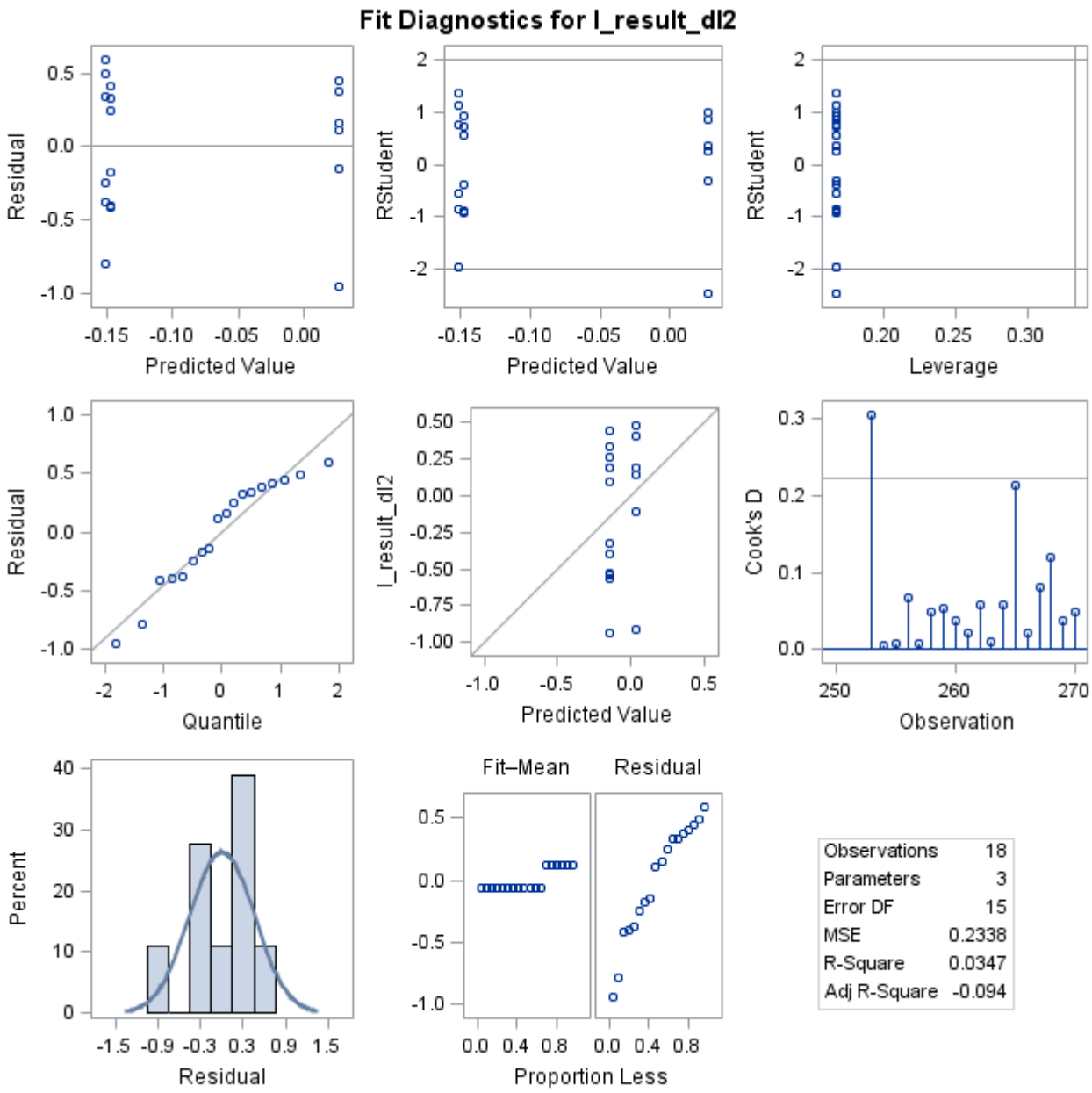
Dependent Variable: l_result_dl2
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.12614013	0.06307007	0.27	0.7672
Error	15	3.50755494	0.23383700		
Corrected Total	17	3.63369507			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.034714	-531.9196	0.483567	-0.090910

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.12614013	0.06307007	0.27	0.7672

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.12614013	0.06307007	0.27	0.7672


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.2338
R-Square 0.0347
Adj R-Square -0.094

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0608	0.0304	0.56	0.5816
Error	15	0.8110	0.0541		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.25	0.7846
Error	9.6879		

Lipids Lipids
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	0.02745461	0.50729207
Southeast	**6**	-0.14807229	0.37302257
Southwest	**6**	-0.15211169	0.55228607

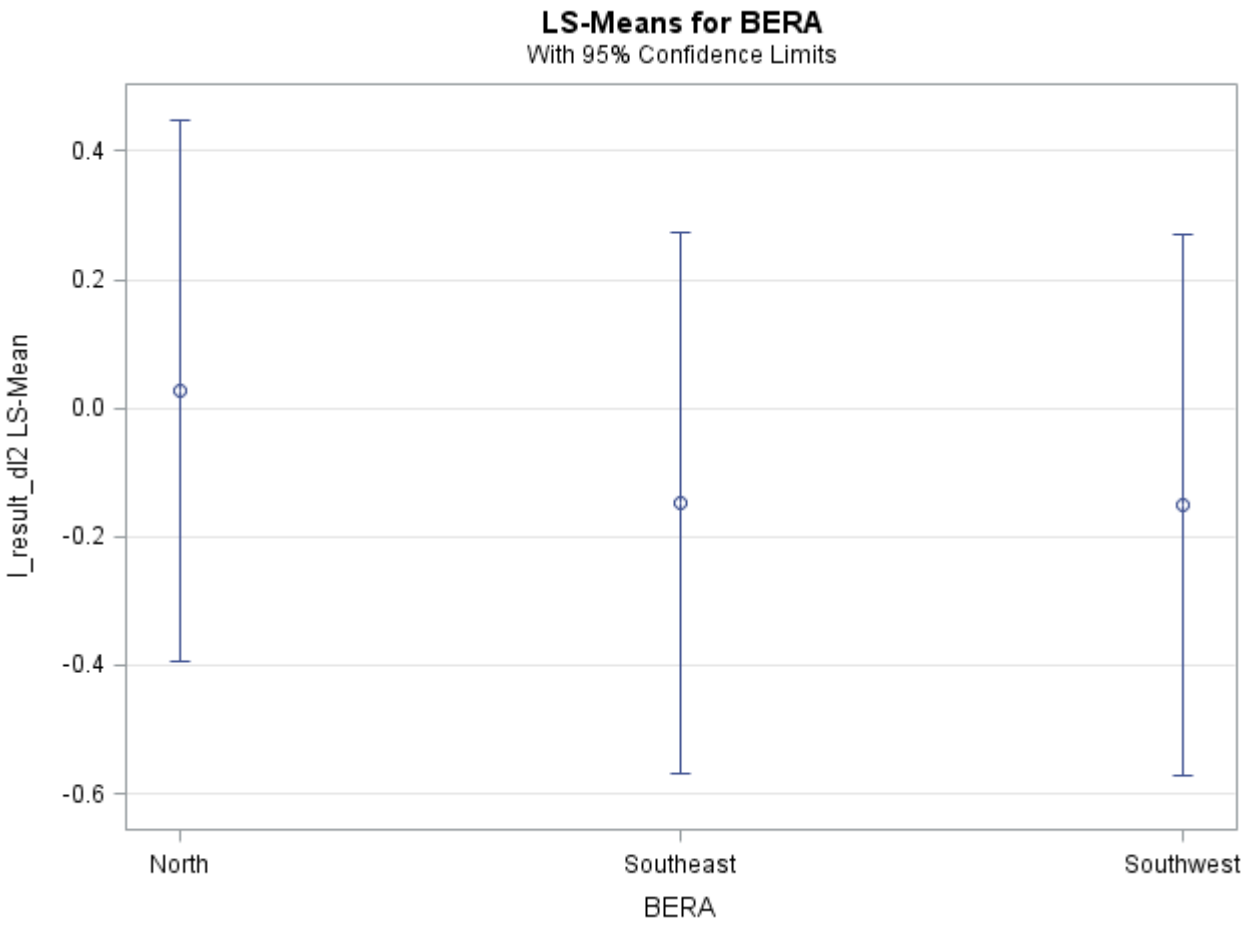
Lipids Lipids
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	0.02745461	1
Southeast	-0.14807229	2
Southwest	-0.15211169	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8068	0.7989
2	0.8068		0.9999
3	0.7989	0.9999	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
0.4
0.2
0.0
-0.2
-0.4
-0.6
North
Southeast
Southwest
BERA

Metals Arsenic
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Arsenic
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

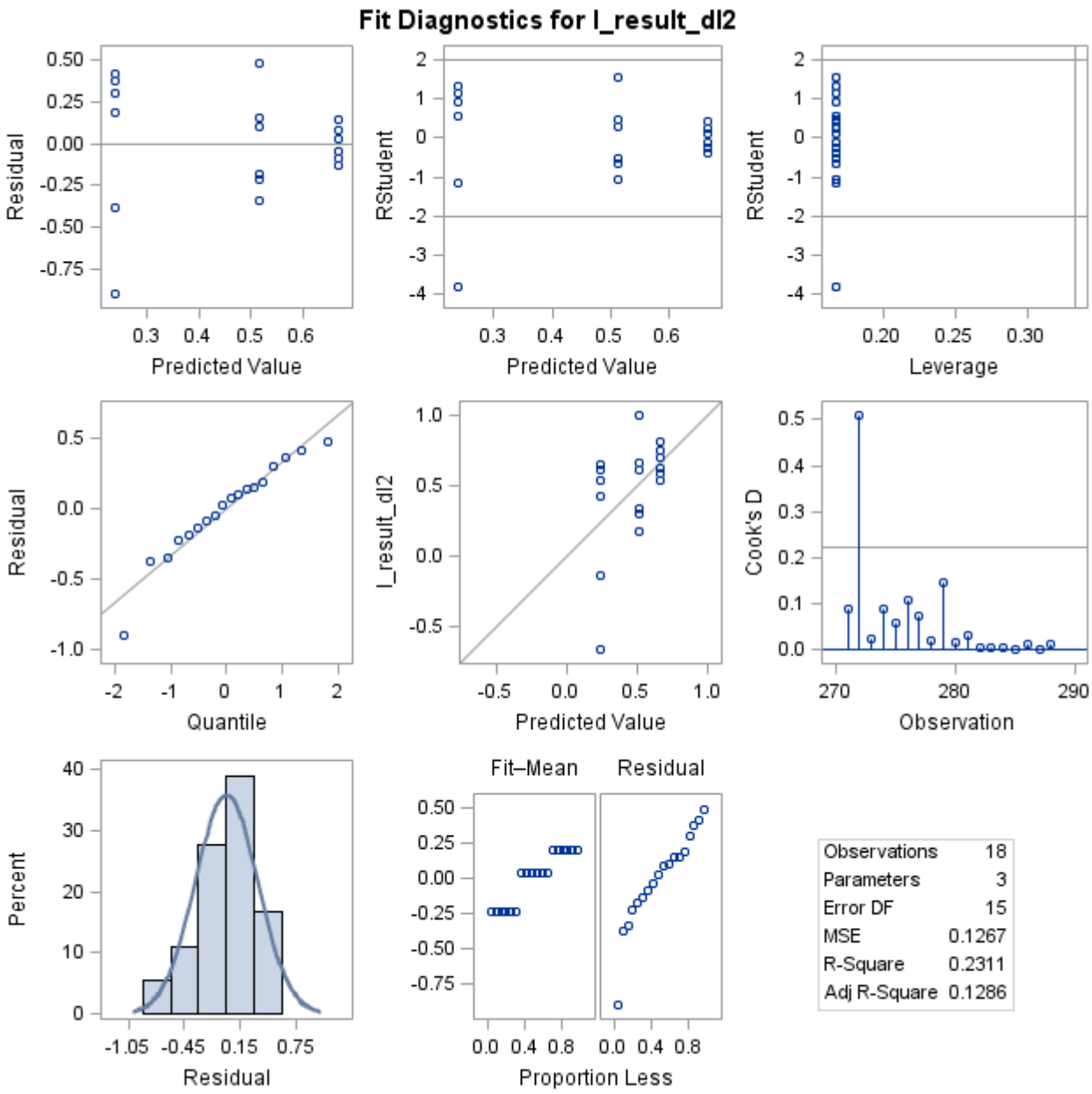
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.57148566	0.28574283	2.25	0.1393
Error	15	1.90098935	0.12673262		
Corrected Total	17	2.47247500			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.231139	75.22756	0.355995	0.473225

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.57148566	0.28574283	2.25	0.1393

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.57148566	0.28574283	2.25	0.1393


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.1267
R-Square 0.2311
Adj R-Square 0.1286

Metals Arsenic
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1545	0.0773	2.60	0.1073
Error	15	0.4457	0.0297		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.28	0.1679
Error	7.5967		

Metals Arsenic
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	0.23731830	0.52611636
Southeast	**6**	0.51446387	0.30385534
Southwest	**6**	0.66789137	0.10522064

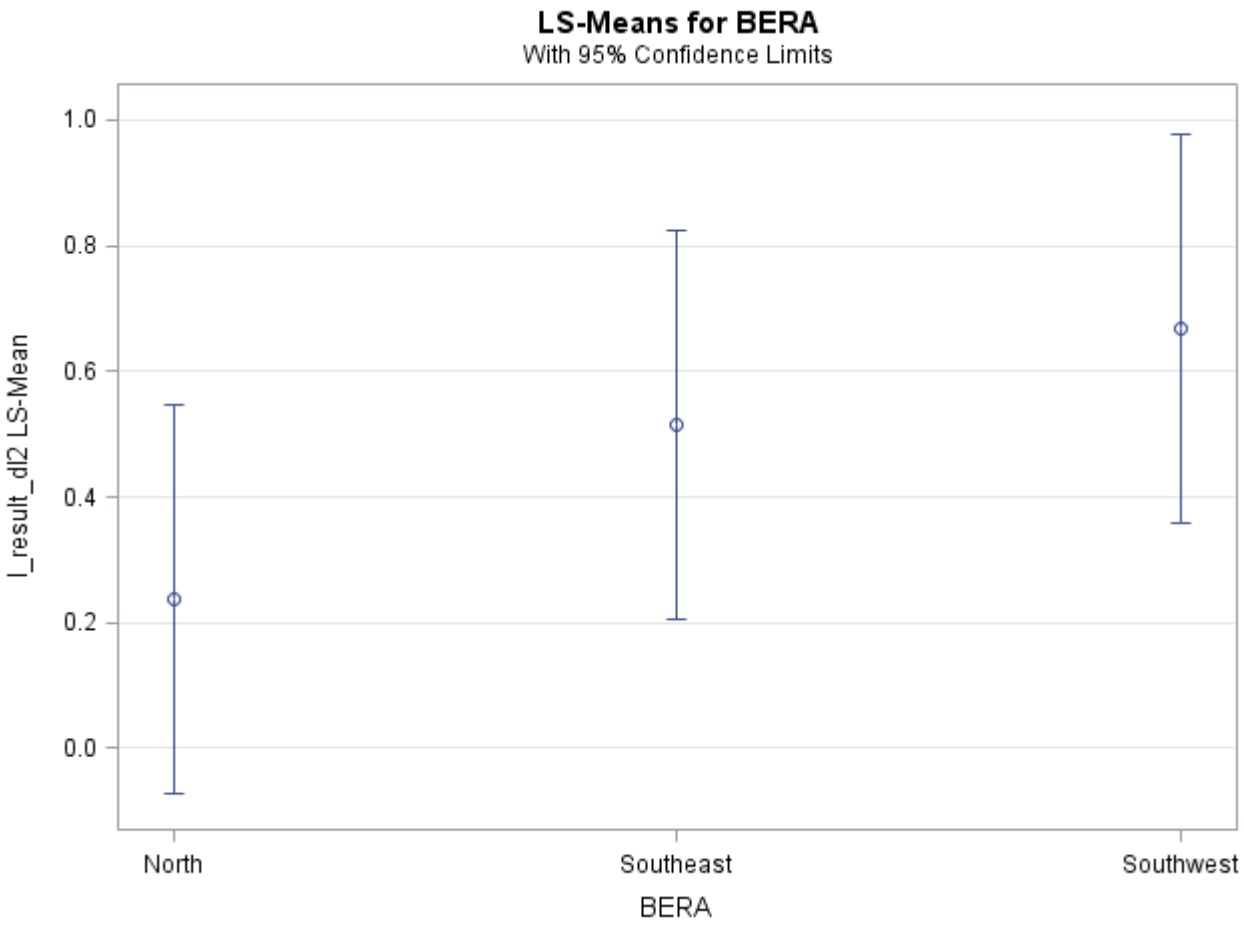
Metals Arsenic
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	0.23731830	1
Southeast	0.51446387	2
Southwest	0.66789137	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3916	0.1245
2	0.3916		0.7403
3	0.1245	0.7403	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
1.0
0.8
0.6
0.4
0.2
0.0
North
Southeast
Southwest
BERA

Metals Chromium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Chromium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

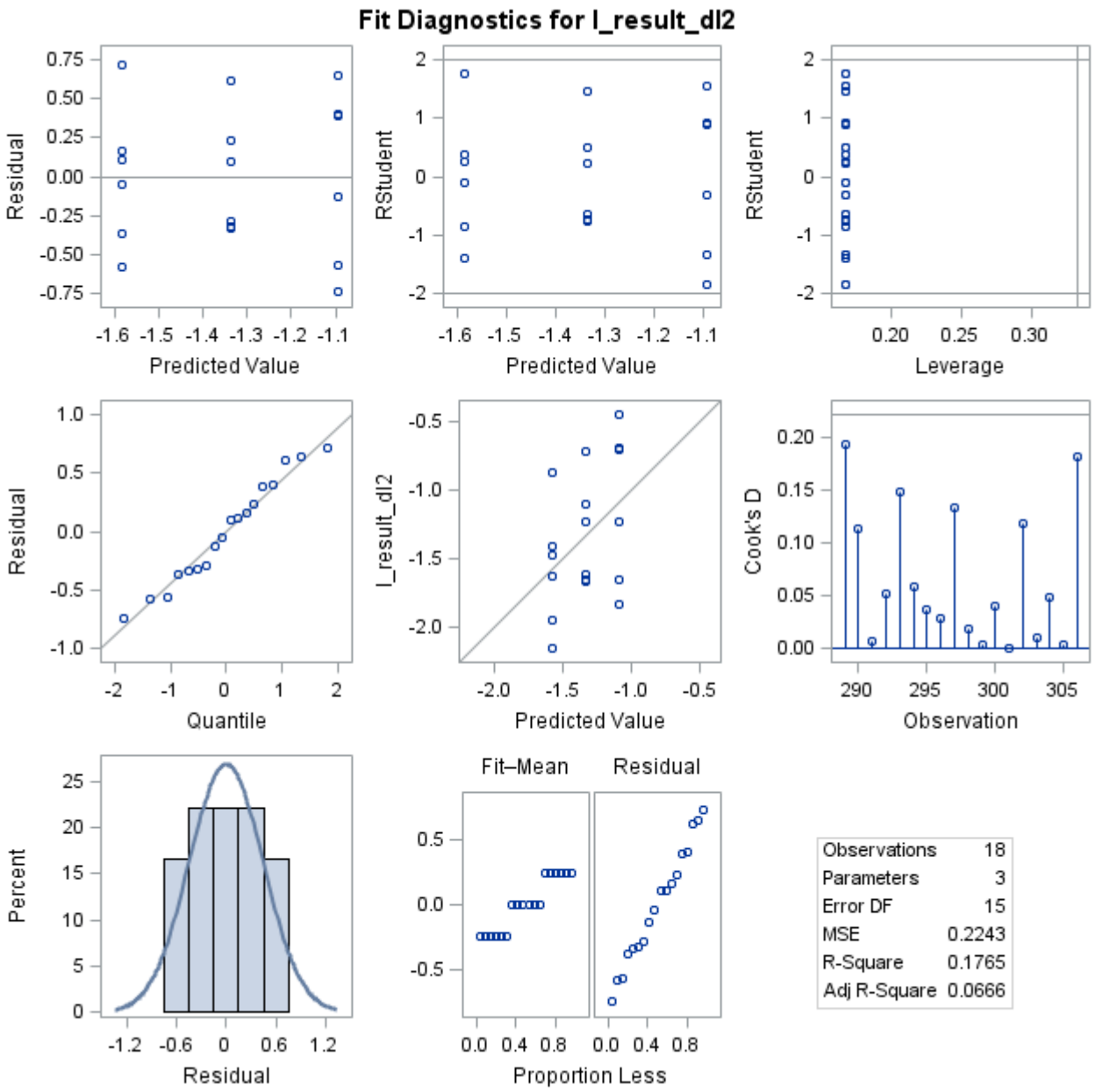
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.72084467	0.36042233	1.61	0.2332
Error	15	3.36436034	0.22429069		
Corrected Total	17	4.08520501			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.176453	-35.38849	0.473593	-1.338269

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.72084467	0.36042233	1.61	0.2332

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.72084467	0.36042233	1.61	0.2332


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.2243
R-Square 0.1765
Adj R-Square 0.0666

Metals Chromium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0663	0.0332	1.02	0.3860
Error	15	0.4902	0.0327		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.32	0.3115
Error	9.7704		

Metals Chromium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	-1.09435266	0.56726663
Southeast	**6**	-1.33593428	0.38303401
Southwest	**6**	-1.58452120	0.45206812

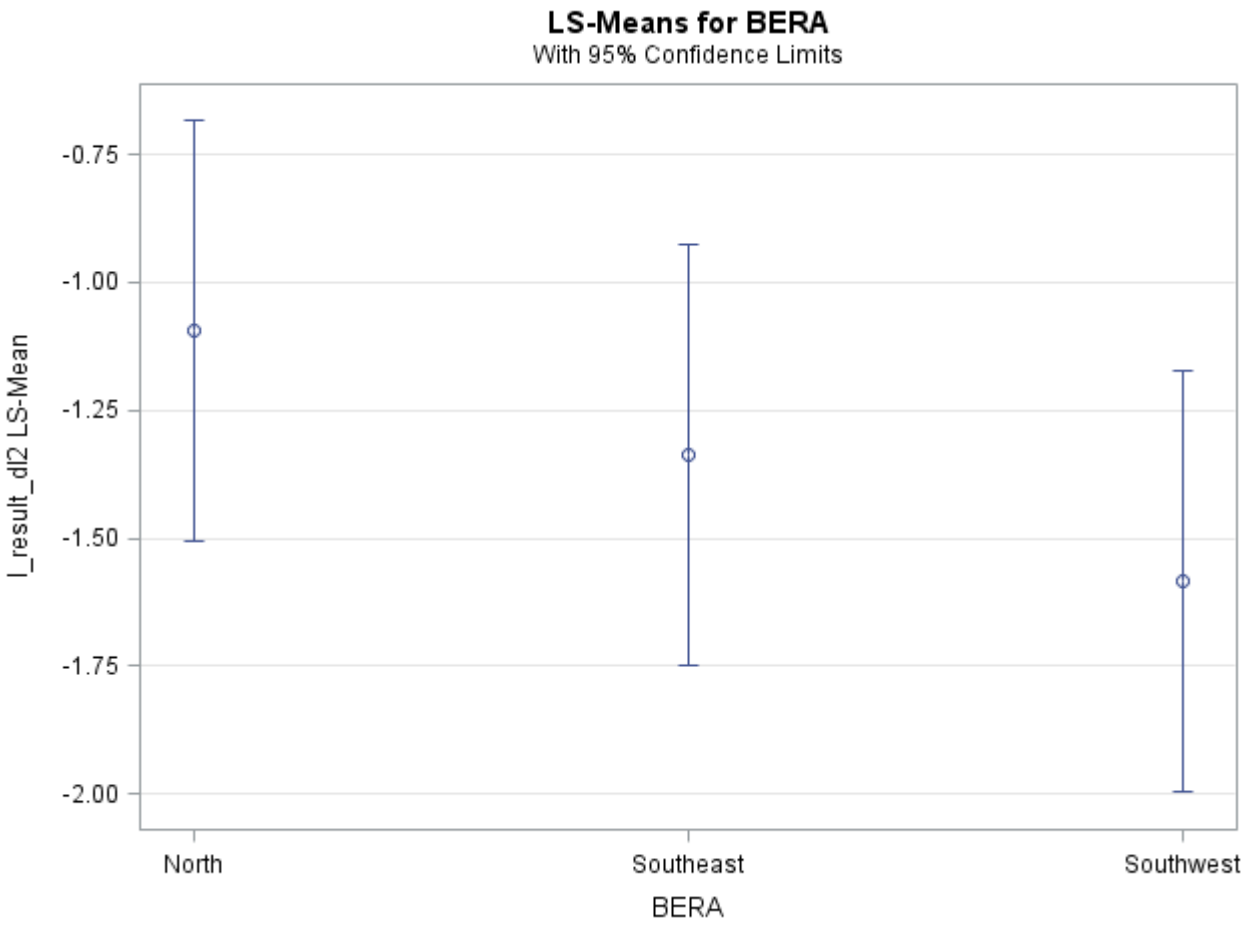
Metals Chromium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.09435266	1
Southeast	-1.33593428	2
Southwest	-1.58452120	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6585	0.2056
2	0.6585		0.6430
3	0.2056	0.6430	


LS-Means for BERA
With 95% Confidence Limits
-0.75
-1.00
-1.25
-1.50
-1.75
-2.00
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Copper
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Copper
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

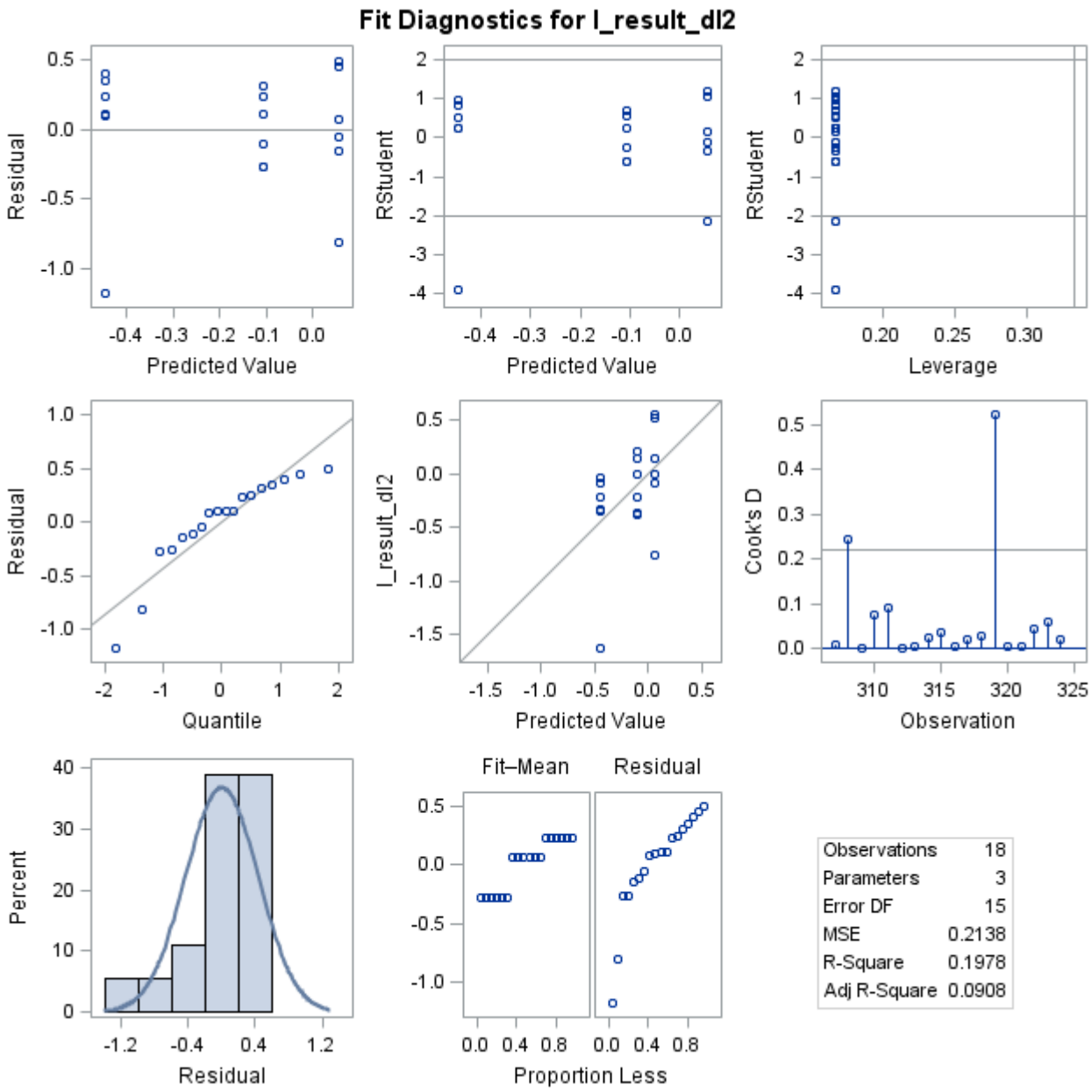
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.79077547	0.39538774	1.85	0.1915
Error	15	3.20764367	0.21384291		
Corrected Total	17	3.99841915			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.197772	-277.8568	0.462432	-0.166428

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.79077547	0.39538774	1.85	0.1915

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.79077547	0.39538774	1.85	0.1915


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.2138
R-Square 0.1978
Adj R-Square 0.0908

Metals Copper
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1728	0.0864	0.72	0.5045
Error	15	1.8091	0.1206		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.24	0.3360
Error	8.7728		

Metals Copper
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	0.05592242	0.47641744
Southeast	**6**	-0.10784398	0.25245653
Southwest	**6**	-0.44736236	0.59230133

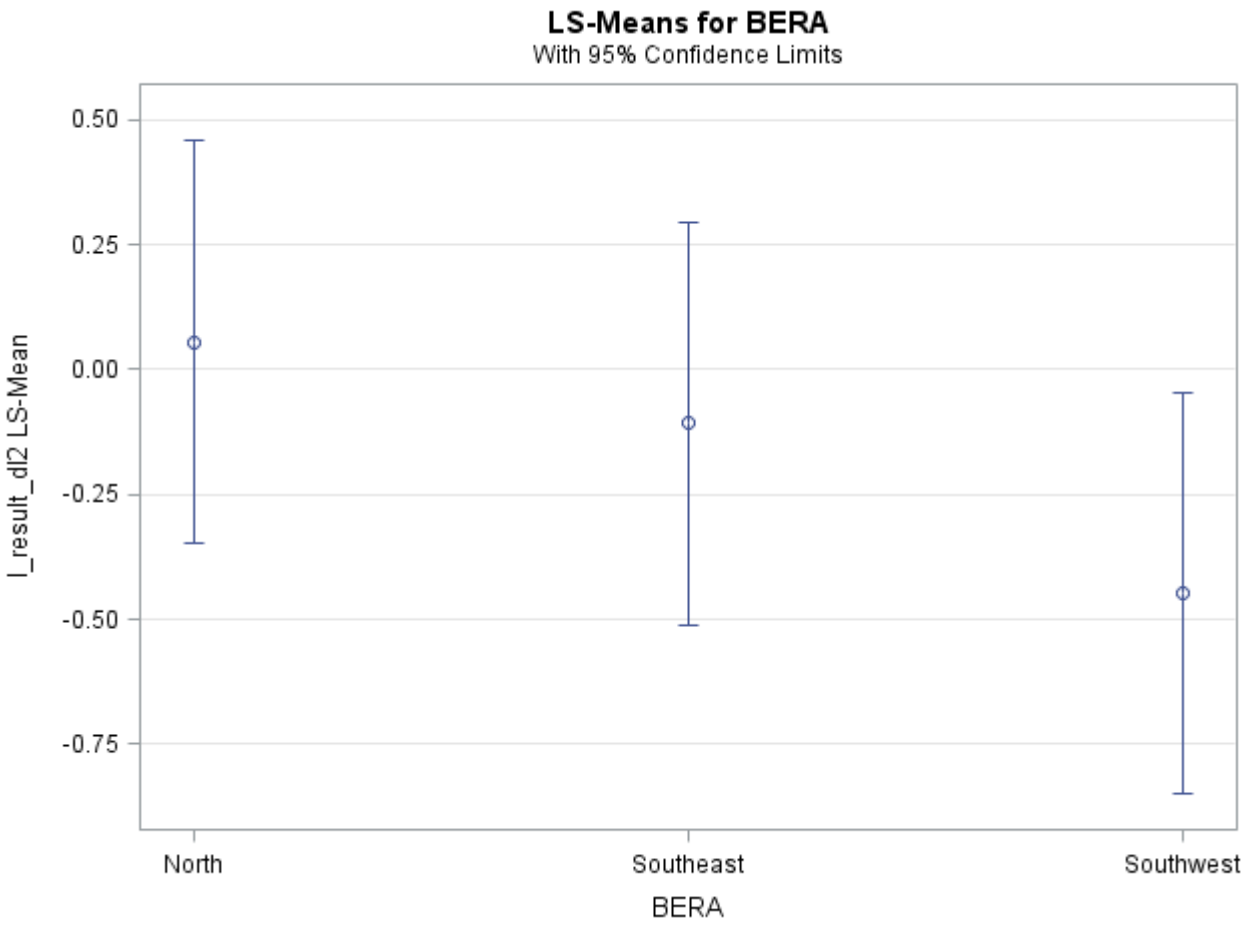
Metals Copper
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	0.05592242	1
Southeast	-0.10784398	2
Southwest	-0.44736236	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8151	0.1772
2	0.8151		0.4318
3	0.1772	0.4318	


LS-Means for BERA
With 95% Confidence Limits
0.50
0.25
0.00
-0.25
-0.50
-0.75
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Lead
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Lead
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

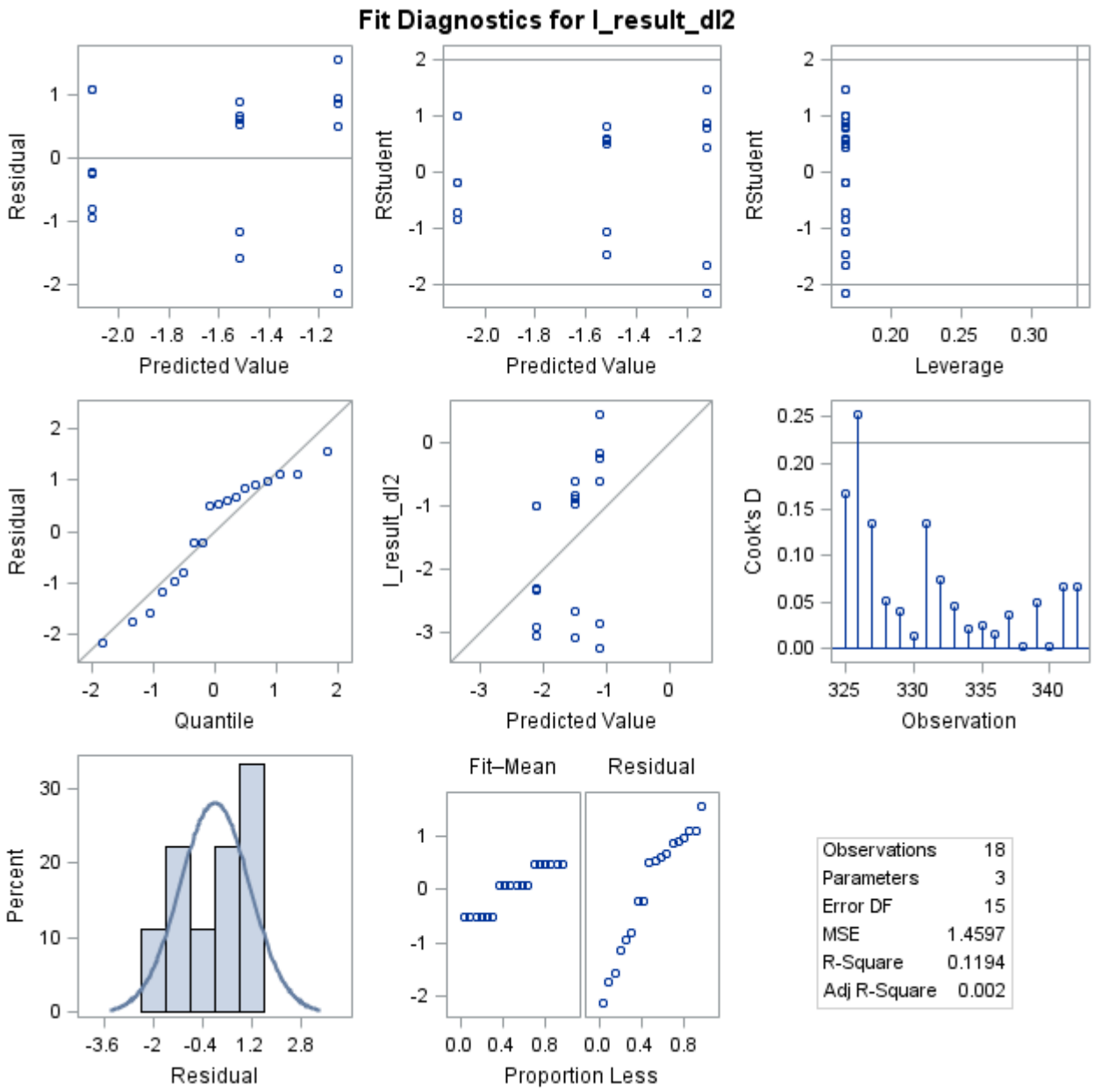
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.96973593	1.48486796	1.02	0.3852
Error	15	21.89598188	1.45973213		
Corrected Total	17	24.86571781			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.119431	-76.35544	1.208194	-1.582328

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.96973593	1.48486796	1.02	0.3852

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.96973593	1.48486796	1.02	0.3852


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 1.4597
R-Square 0.1194
Adj R-Square 0.002

Metals Lead

NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	5.8520	2.9260	2.33	0.1314
Error	15	18.8297	1.2553		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.04	0.3907
Error	9.6219		

Metals Lead

NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	-1.12153838	1.55157446
Southeast	**6**	-1.51568404	1.07487230
Southwest	**6**	-2.10976282	0.90358321

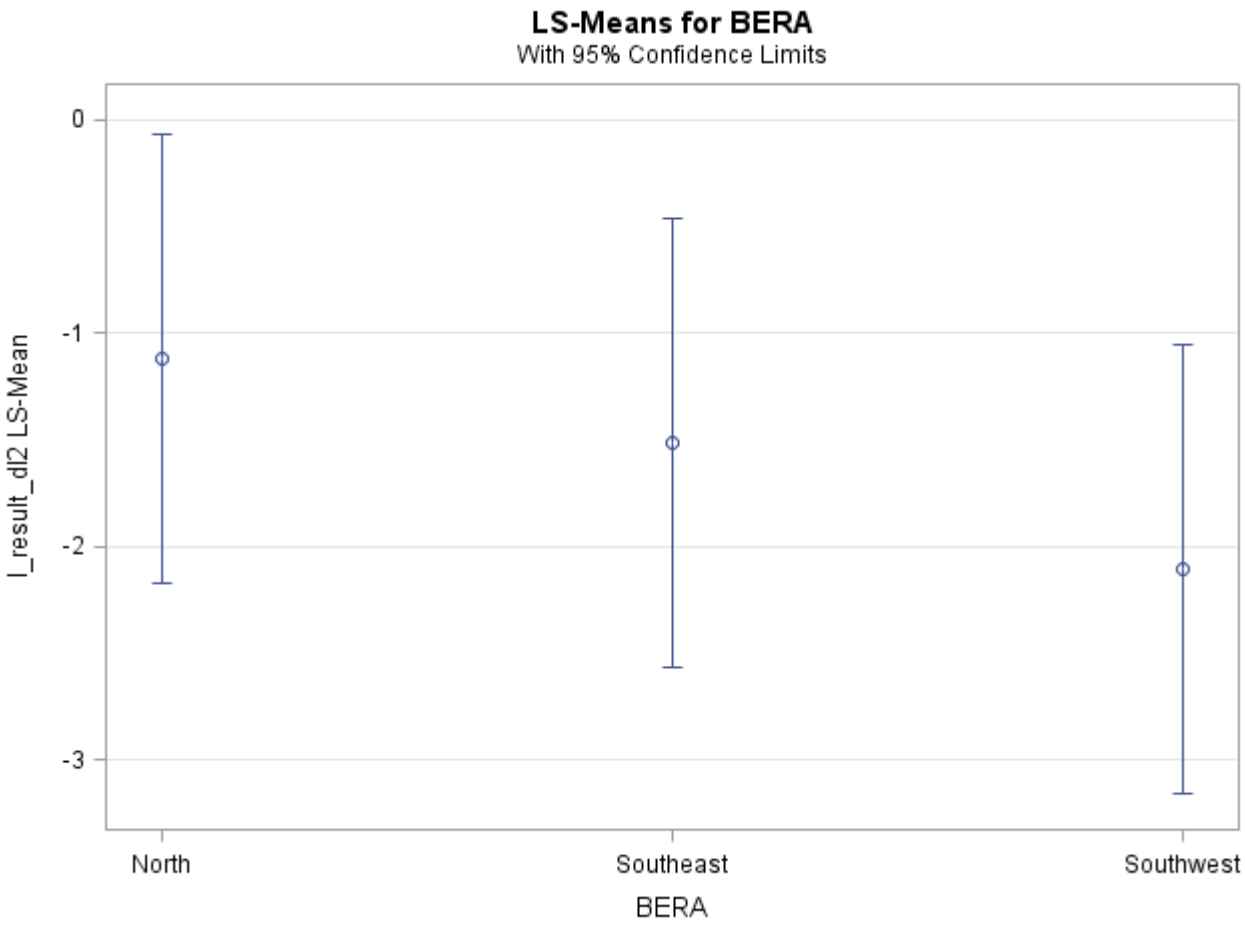
Metals Lead
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.12153838	1
Southeast	-1.51568404	2
Southwest	-2.10976282	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8404	0.3576
2	0.8404		0.6777
3	0.3576	0.6777	


LS-Means for BERA
With 95% Confidence Limits
0
-1
-2
-3
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

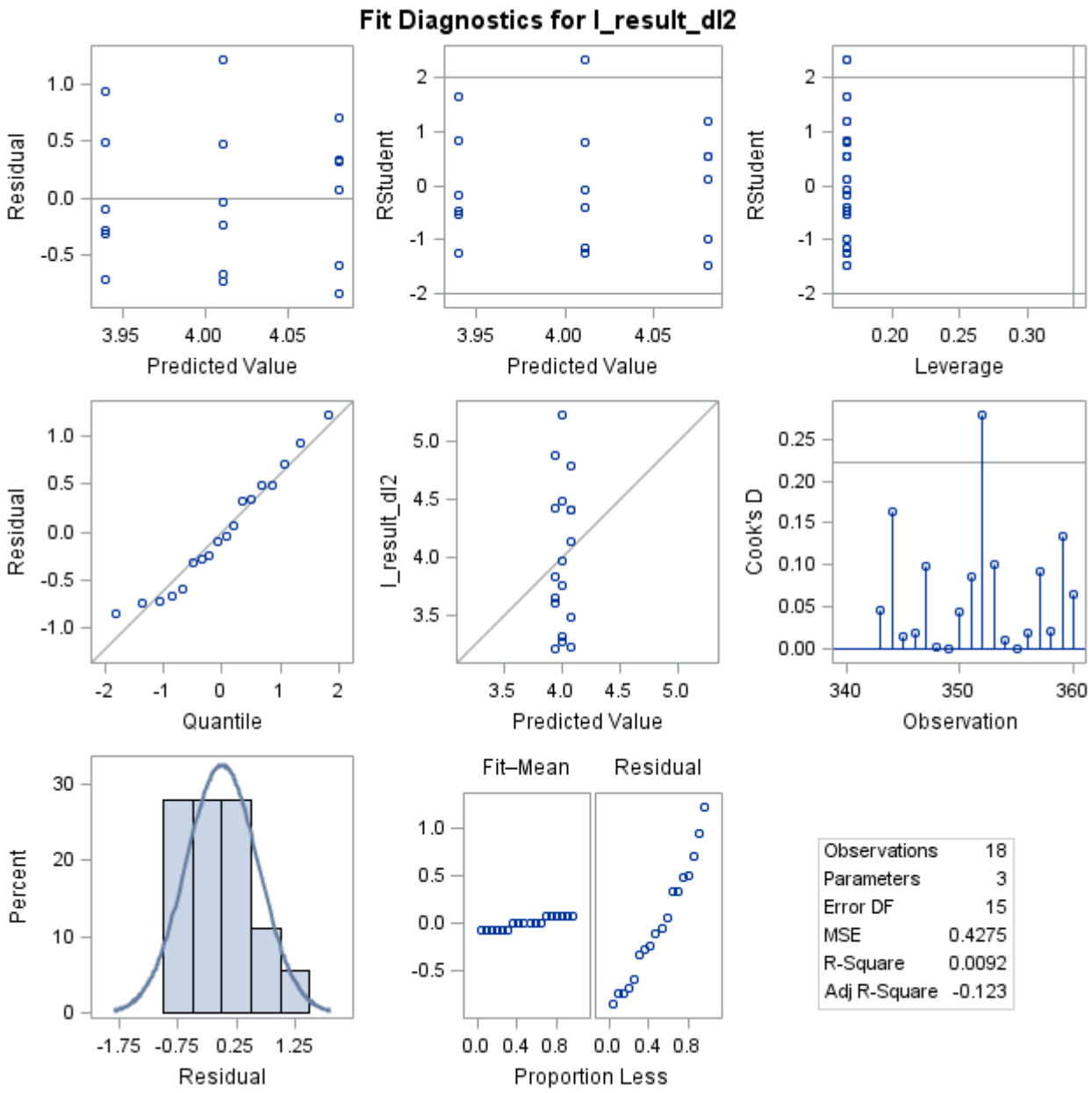
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.05974568	0.02987284	0.07	0.9328
Error	15	6.41203868	0.42746925		
Corrected Total	17	6.47178435			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.009232	16.30293	0.653811	4.010392

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.05974568	0.02987284	0.07	0.9328

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.05974568	0.02987284	0.07	0.9328


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.4275
R-Square 0.0092
Adj R-Square -0.123

Metals Mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1057	0.0528	0.33	0.7256
Error	15	2.4181	0.1612		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.08	0.9263
Error	9.9133		

Metals Mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	3.93950042	0.60632505
Southeast	**6**	4.01105897	0.74656076
Southwest	**6**	4.08061701	0.59785006

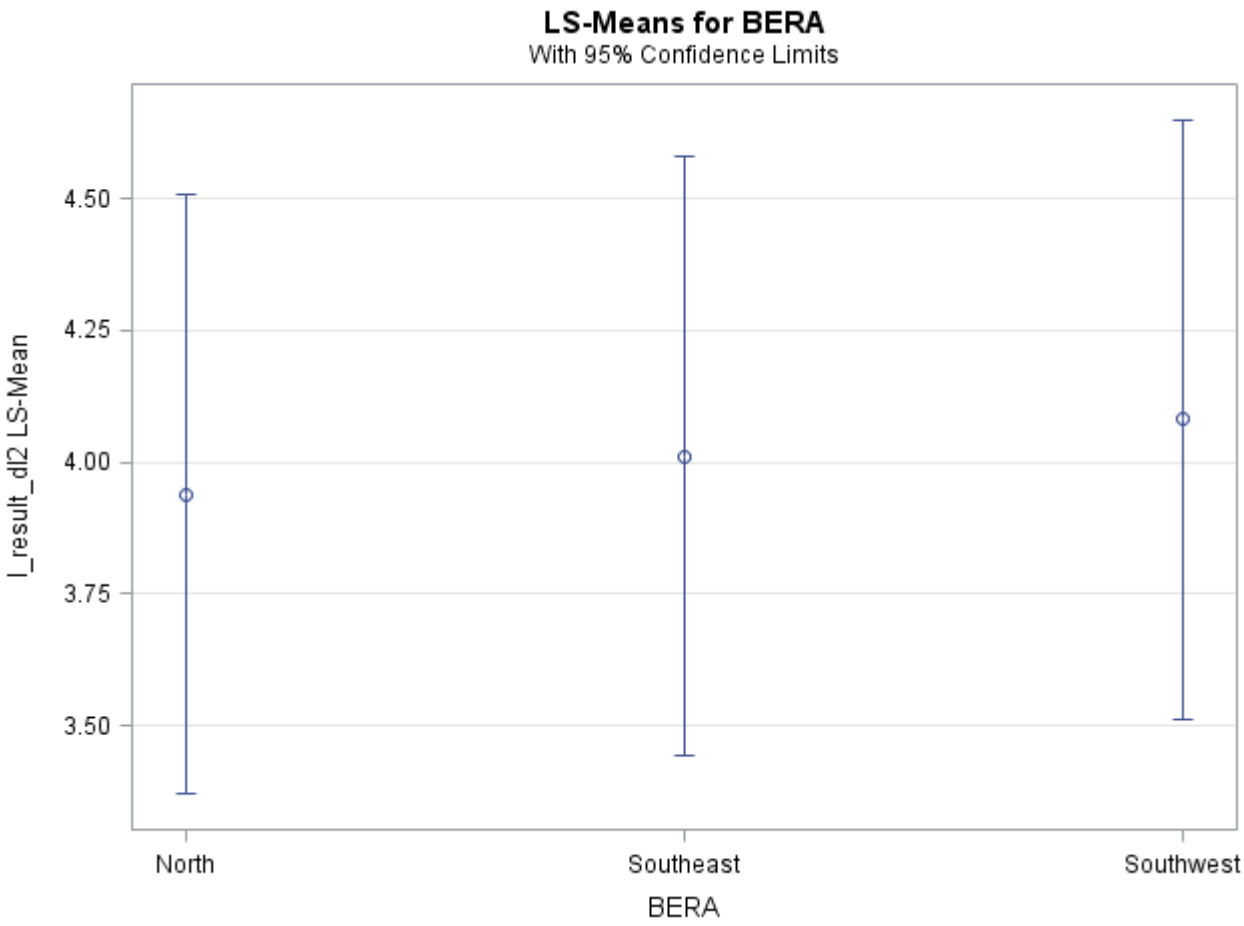
Metals Mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.93950042	1
Southeast	4.01105897	2
Southwest	4.08061701	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9804	0.9262
2	0.9804		0.9815
3	0.9262	0.9815	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.50
4.25
4.00
3.75
3.50
North
Southeast
Southwest
BERA

Metals Methyl mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Methyl mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

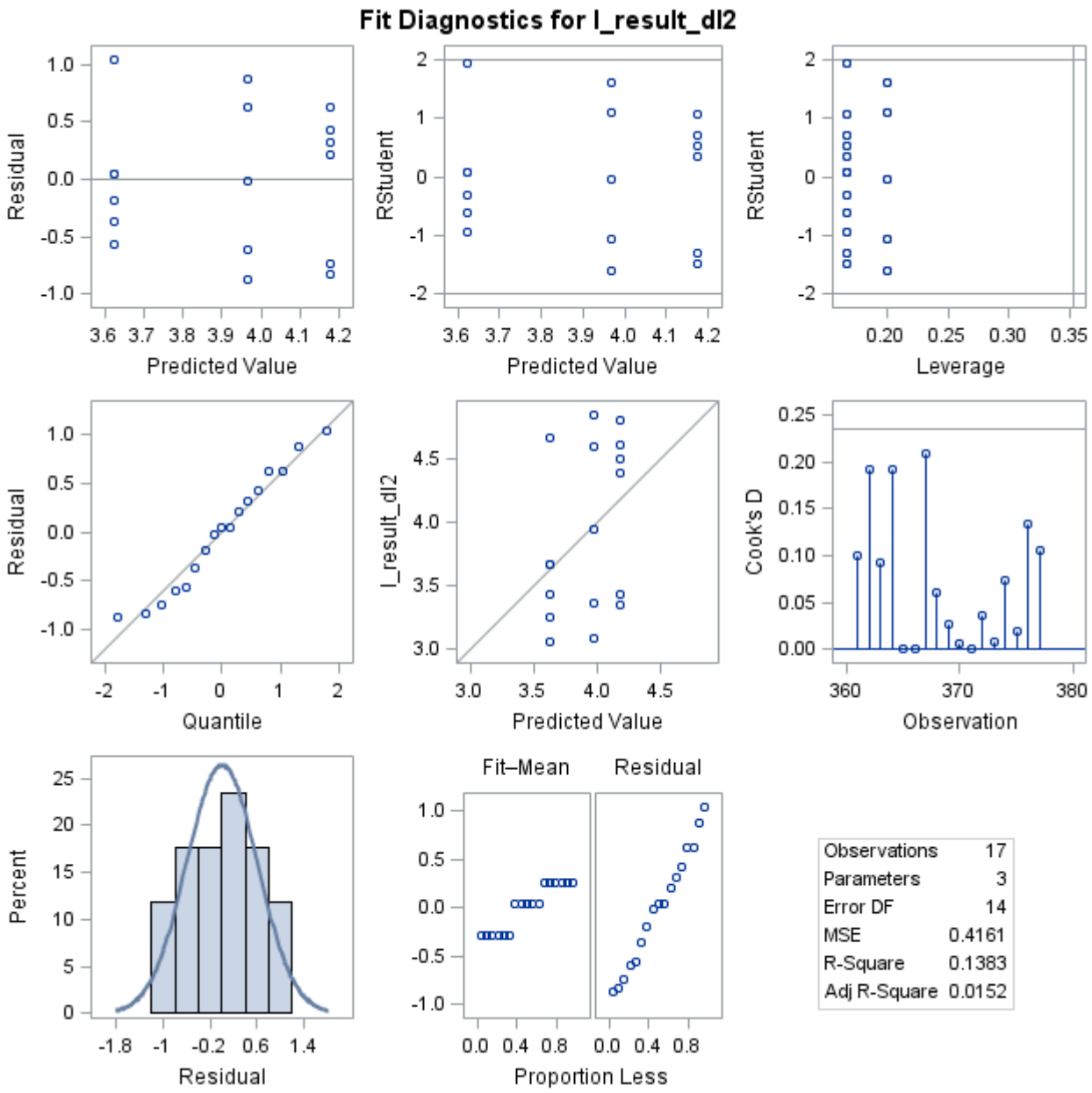
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.93472363	0.46736182	1.12	0.3528
Error	14	5.82503043	0.41607360		
Corrected Total	16	6.75975406			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.138278	16.46147	0.645038	3.918469

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.93472363	0.46736182	1.12	0.3528

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.93472363	0.46736182	1.12	0.3528


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.4161
R-Square 0.1383
Adj R-Square 0.0152

Metals Methyl mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1071	0.0536	0.46	0.6407
Error	14	1.6316	0.1165		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.24	0.3359
Error	8.7620		

Metals Methyl mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**5**	3.96606033	0.75712095
Southeast	**6**	3.62195020	0.56159801
Southwest	**6**	4.17532777	0.62532236

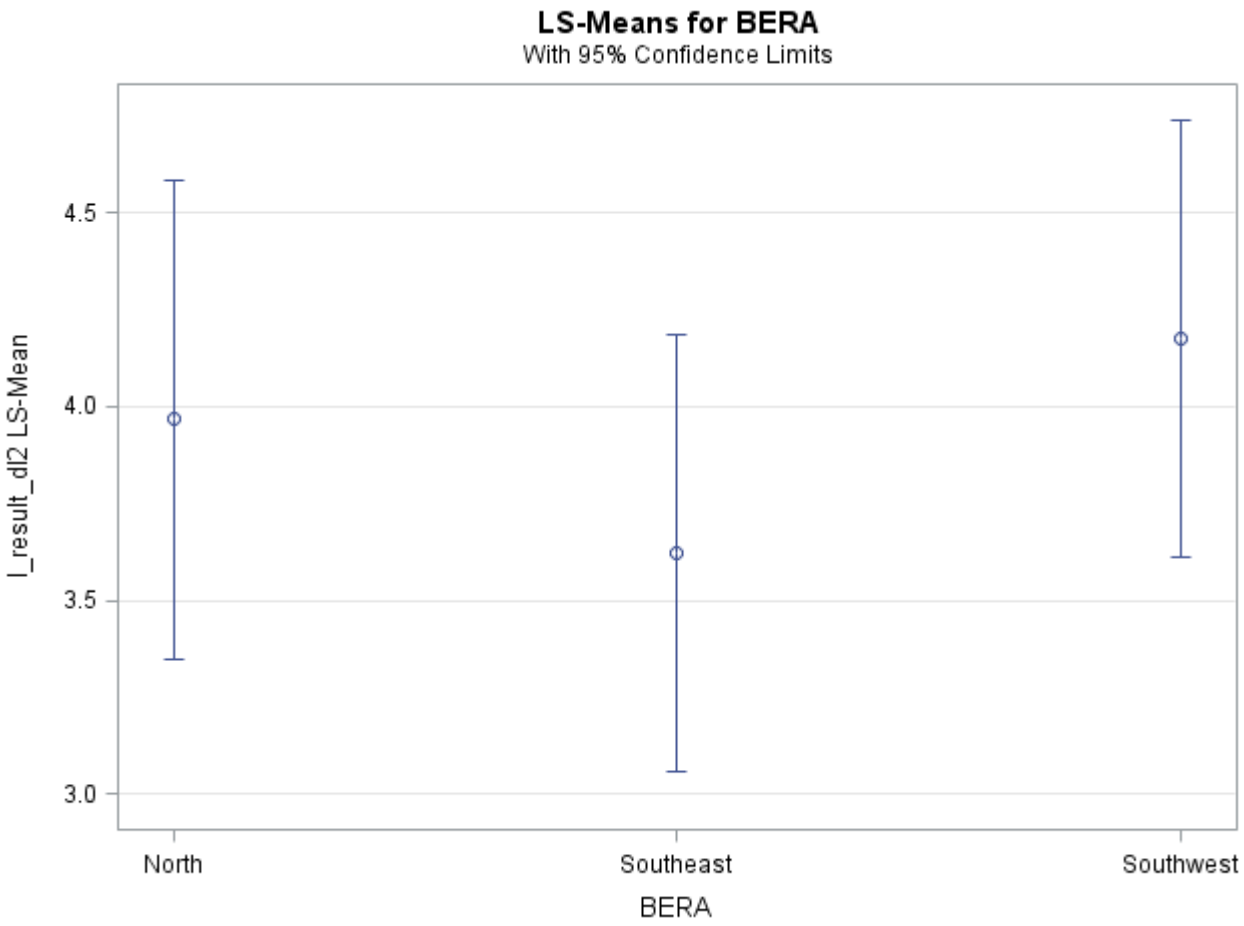
Metals Methyl mercury
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.96606033	1
Southeast	3.62195020	2
Southwest	4.17532777	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6606	0.8552
2	0.6606		0.3270
3	0.8552	0.3270	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.5
4.0
3.5
3.0
North
Southeast
Southwest
BERA

Metals Selenium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Selenium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

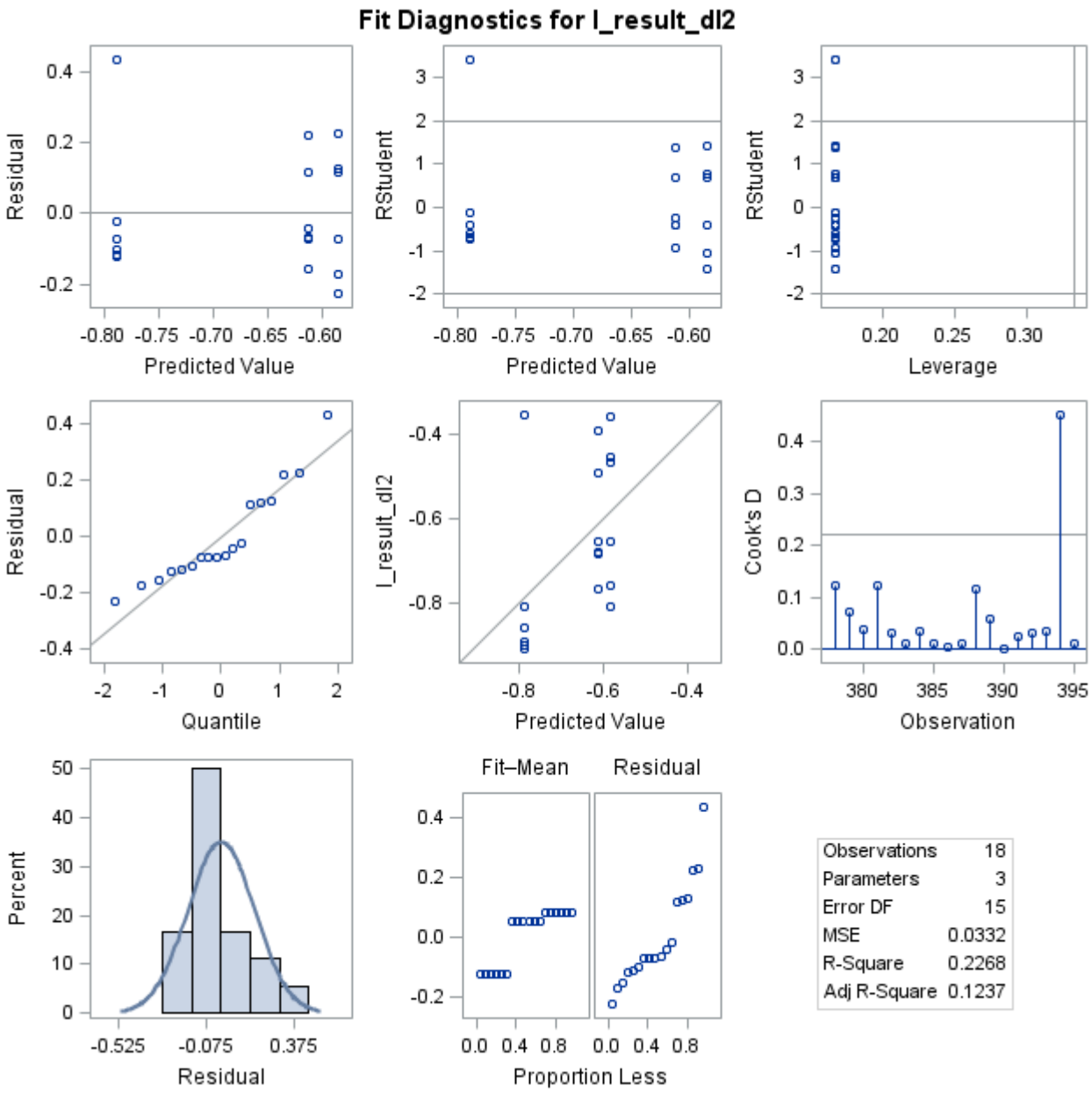
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.14611298	0.07305649	2.20	0.1453
Error	15	0.49815201	0.03321013		
Corrected Total	17	0.64426499			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.226790	-27.51676	0.182236	-0.662275

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.14611298	0.07305649	2.20	0.1453

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.14611298	0.07305649	2.20	0.1453


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.0332
R-Square 0.2268
Adj R-Square 0.1237

Metals Selenium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00149	0.000746	0.37	0.6978
Error	15	0.0304	0.00202		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.69	0.2346
Error	9.6848		

Metals Selenium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	-0.58520454	0.18289976
Southeast	**6**	-0.61293900	0.14039037
Southwest	**6**	-0.78868017	0.21556582

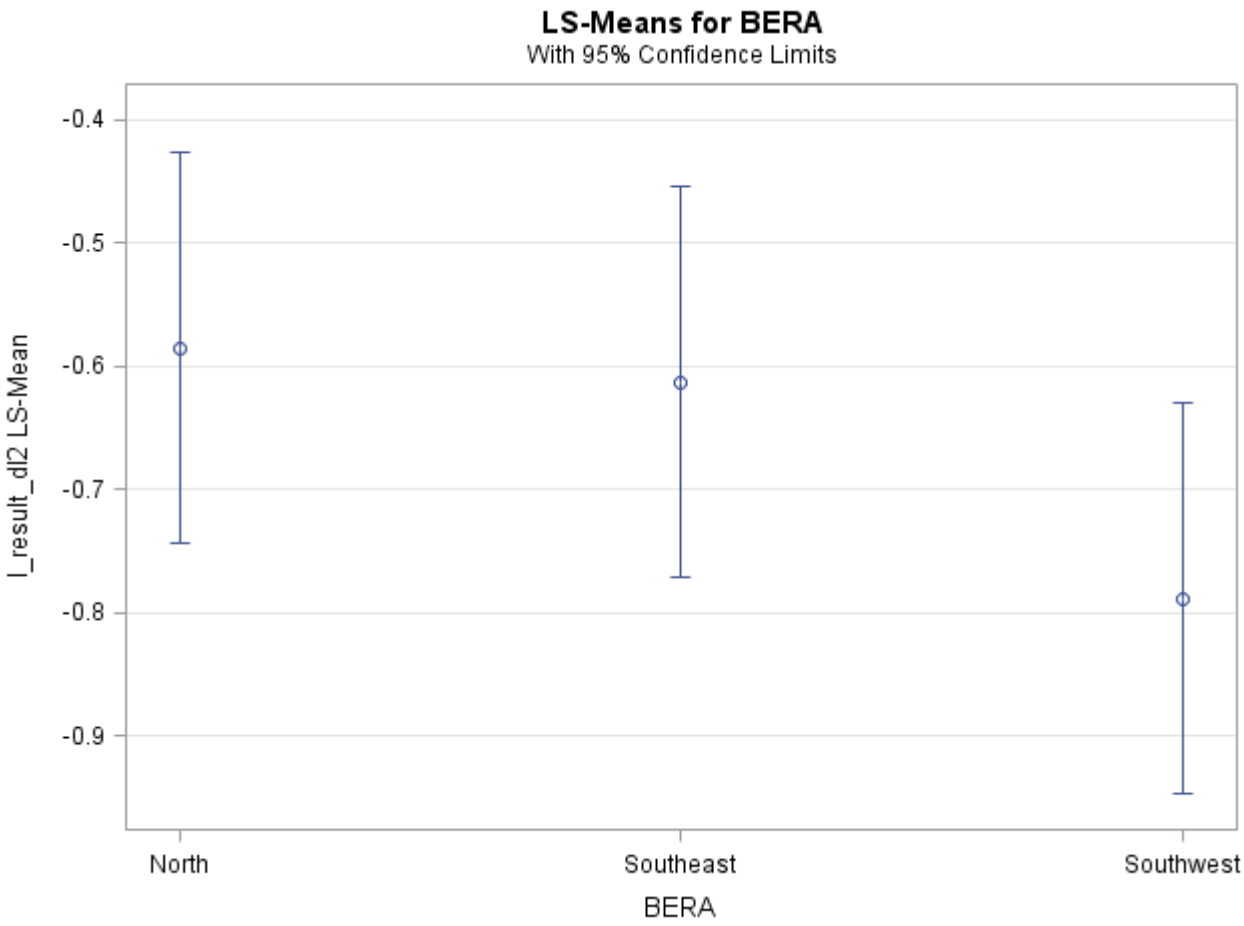
Metals Selenium
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.58520454	1
Southeast	-0.61293900	2
Southwest	-0.78868017	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9625	0.1635
2	0.9625		0.2485
3	0.1635	0.2485	


LS-Means for BERA
With 95% Confidence Limits
-0.4
-0.5
-0.6
-0.7
-0.8
-0.9
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Metals Zinc
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Metals Zinc
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure

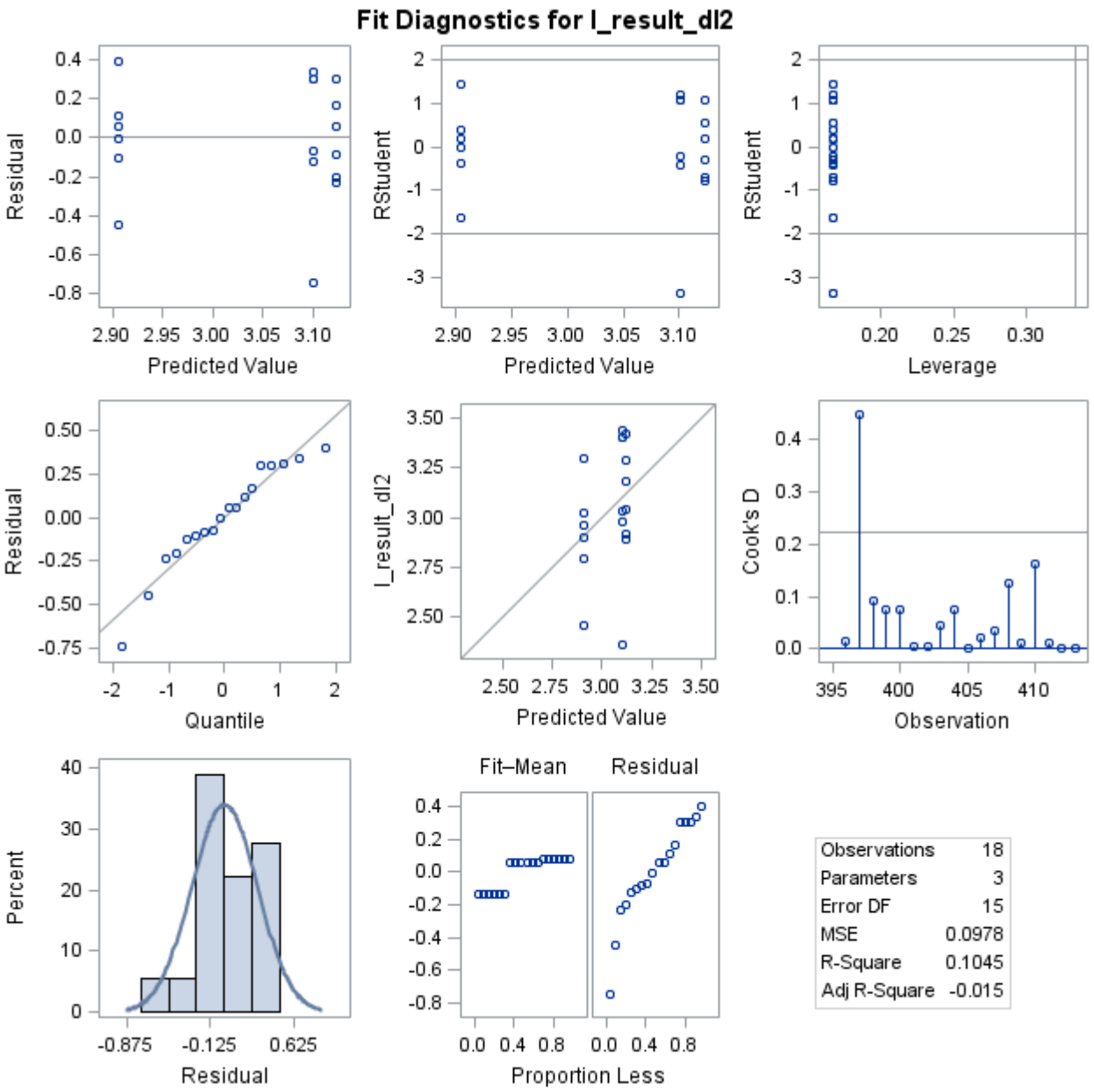
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.17134195	0.08567098	0.88	0.4368
Error	15	1.46758424	0.09783895		
Corrected Total	17	1.63892619			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.104545	10.27962	0.312792	3.042837

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.17134195	0.08567098	0.88	0.4368

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.17134195	0.08567098	0.88	0.4368


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 3
Error DF 15
MSE 0.0978
R-Square 0.1045
Adj R-Square -0.015

Metals Zinc
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0368	0.0184	1.10	0.3591
Error	15	0.2515	0.0168		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.14	0.3606
Error	9.4279		

Metals Zinc
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**6**	3.10024719	0.41516099
Southeast	**6**	3.12279043	0.21151786
Southwest	**6**	2.90547430	0.27643878

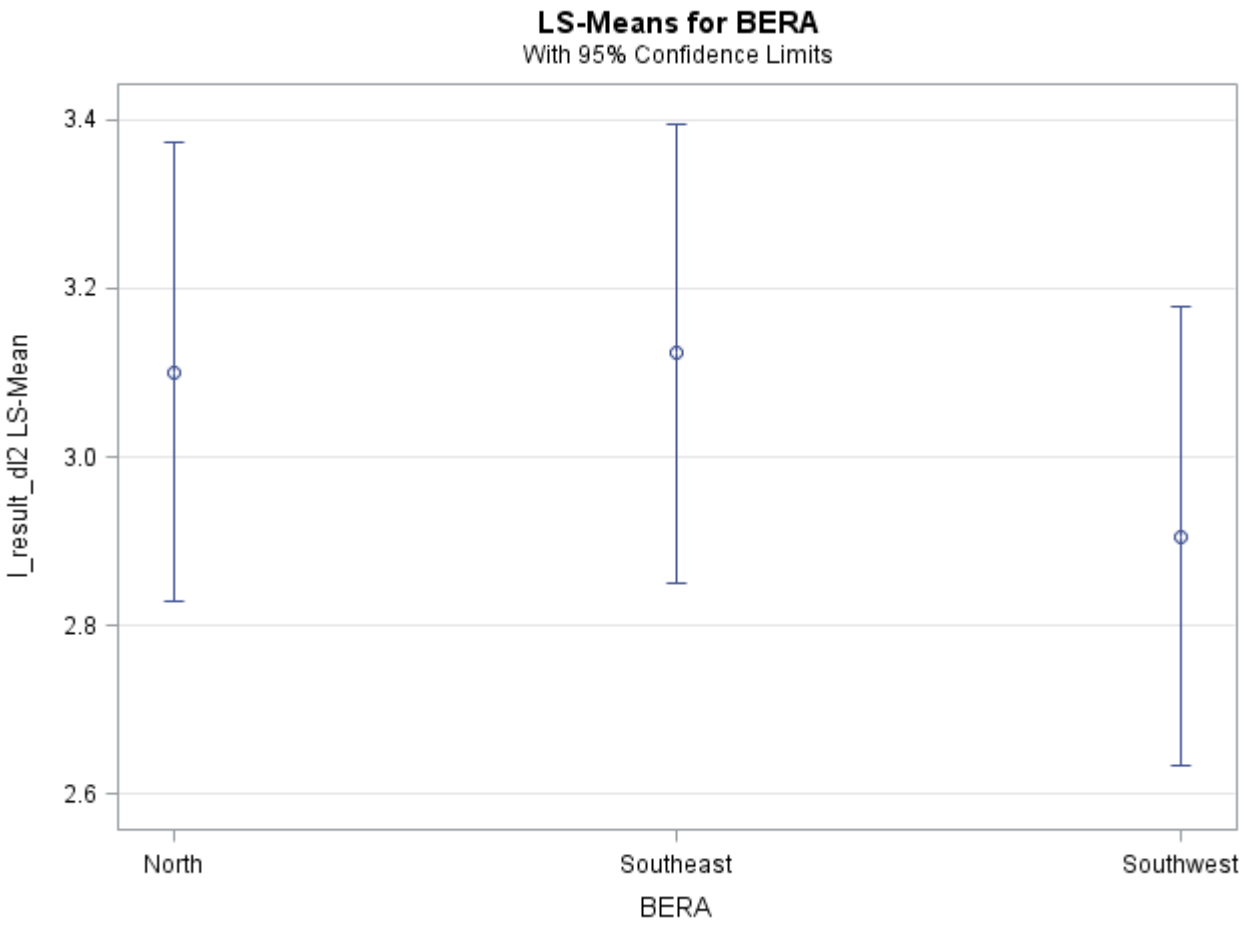
Metals Zinc
NBSA Whole Body Flounder (Winter/Summer) ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.10024719	1
Southeast	3.12279043	2
Southwest	2.90547430	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9915	0.5412
2	0.9915		0.4693
3	0.5412	0.4693	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.4
3.2
3.0
2.8
2.6
North
Southeast
Southwest
BERA

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

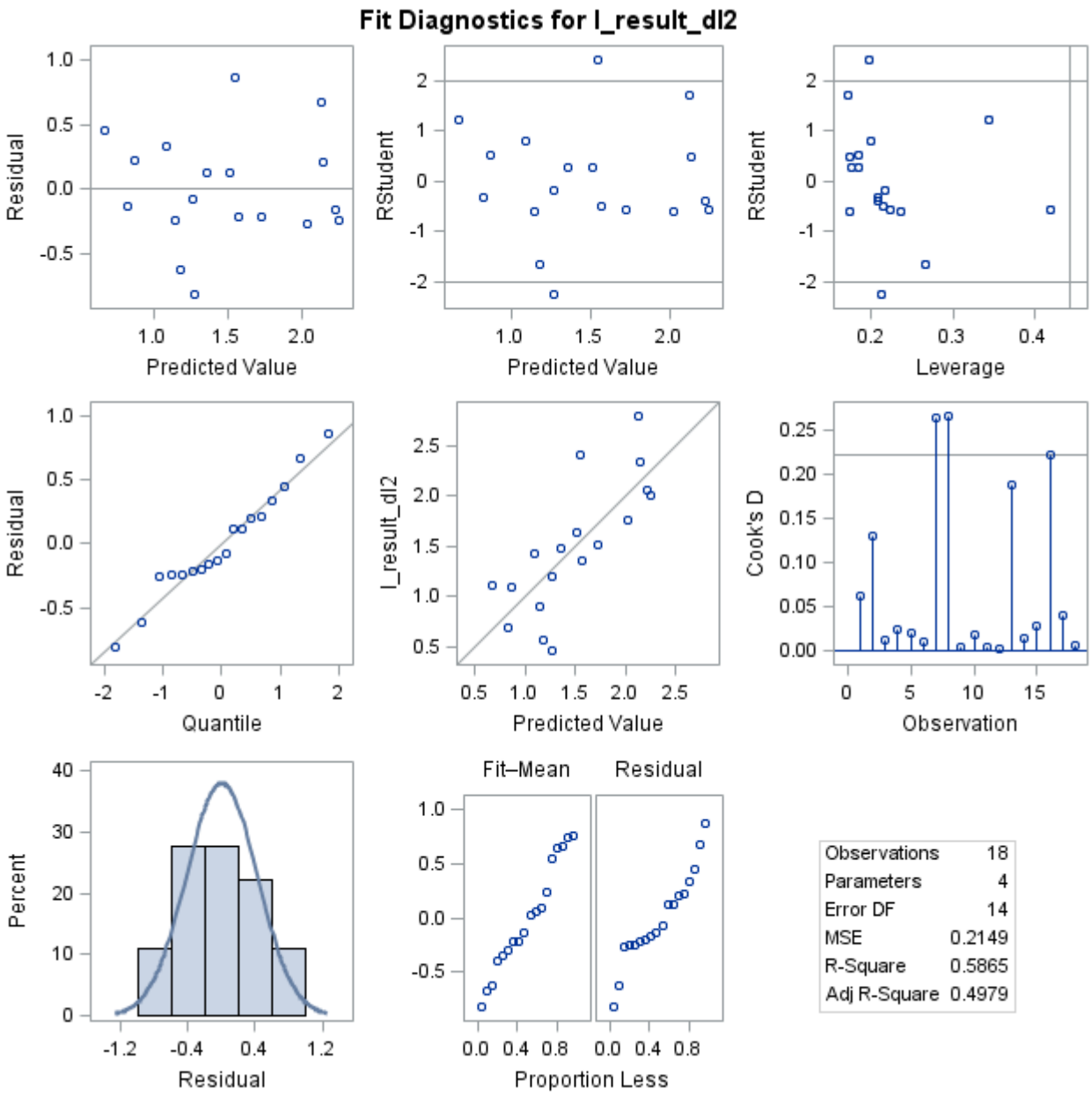
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.26867297	1.42289099	6.62	0.0052
Error	14	3.00906135	0.21493295		
Corrected Total	17	7.27773433			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.586539	31.13093	0.463609	1.489222

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.03997134	1.03997134	4.84	0.0451
BERA	2	3.22870164	1.61435082	7.51	0.0061

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.48755717	0.48755717	2.27	0.1543
BERA	2	3.22870164	1.61435082	7.51	0.0061


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.2149
R-Square 0.5865
Adj R-Square 0.4979

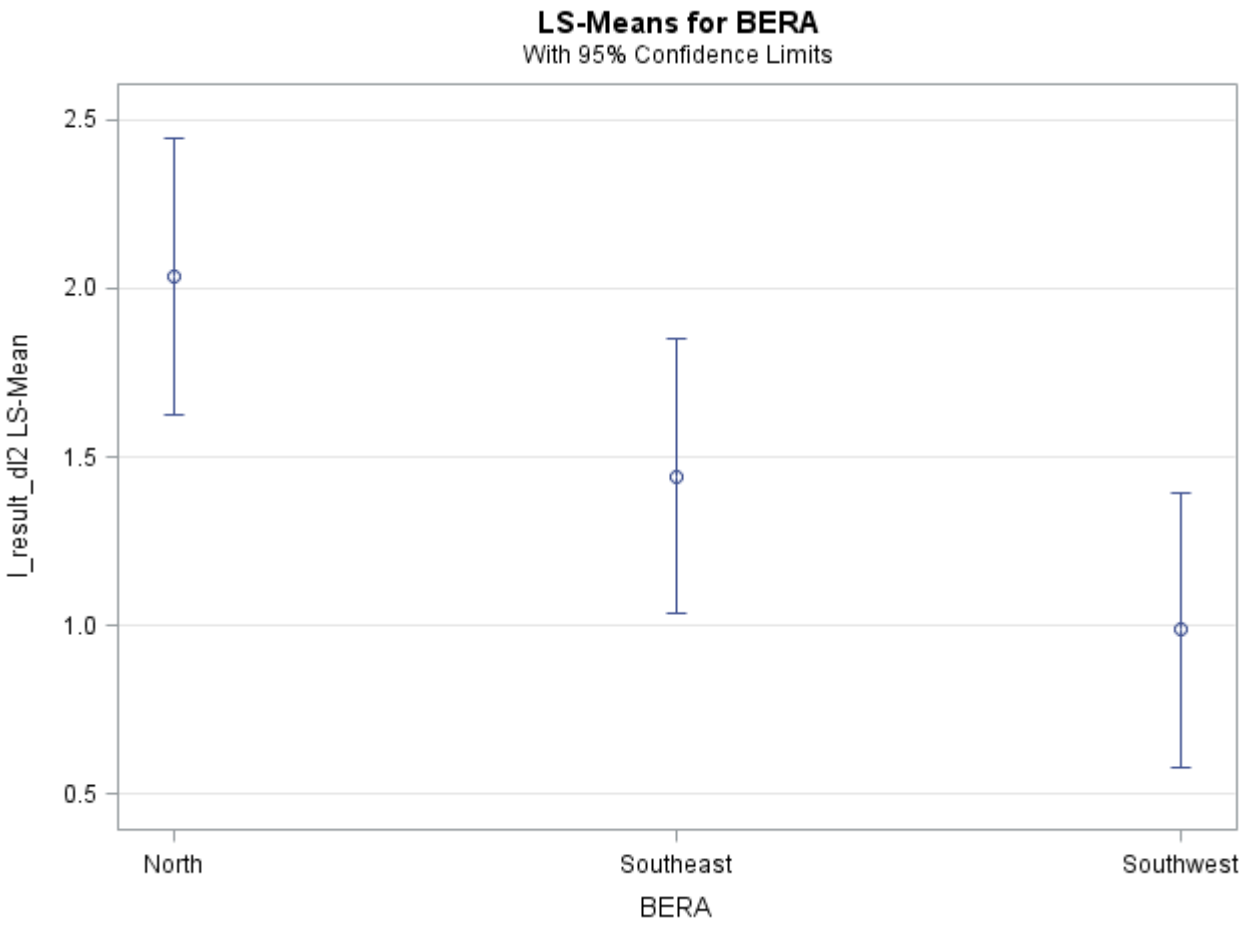
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.03713460	1
Southeast	1.44300171	2
Southwest	0.98752944	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1076	0.0045
2	0.1076		0.2391
3	0.0045	0.2391	


LS-Means for BERA
With 95% Confidence Limits
2.5
2.0
1.5
1.0
0.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

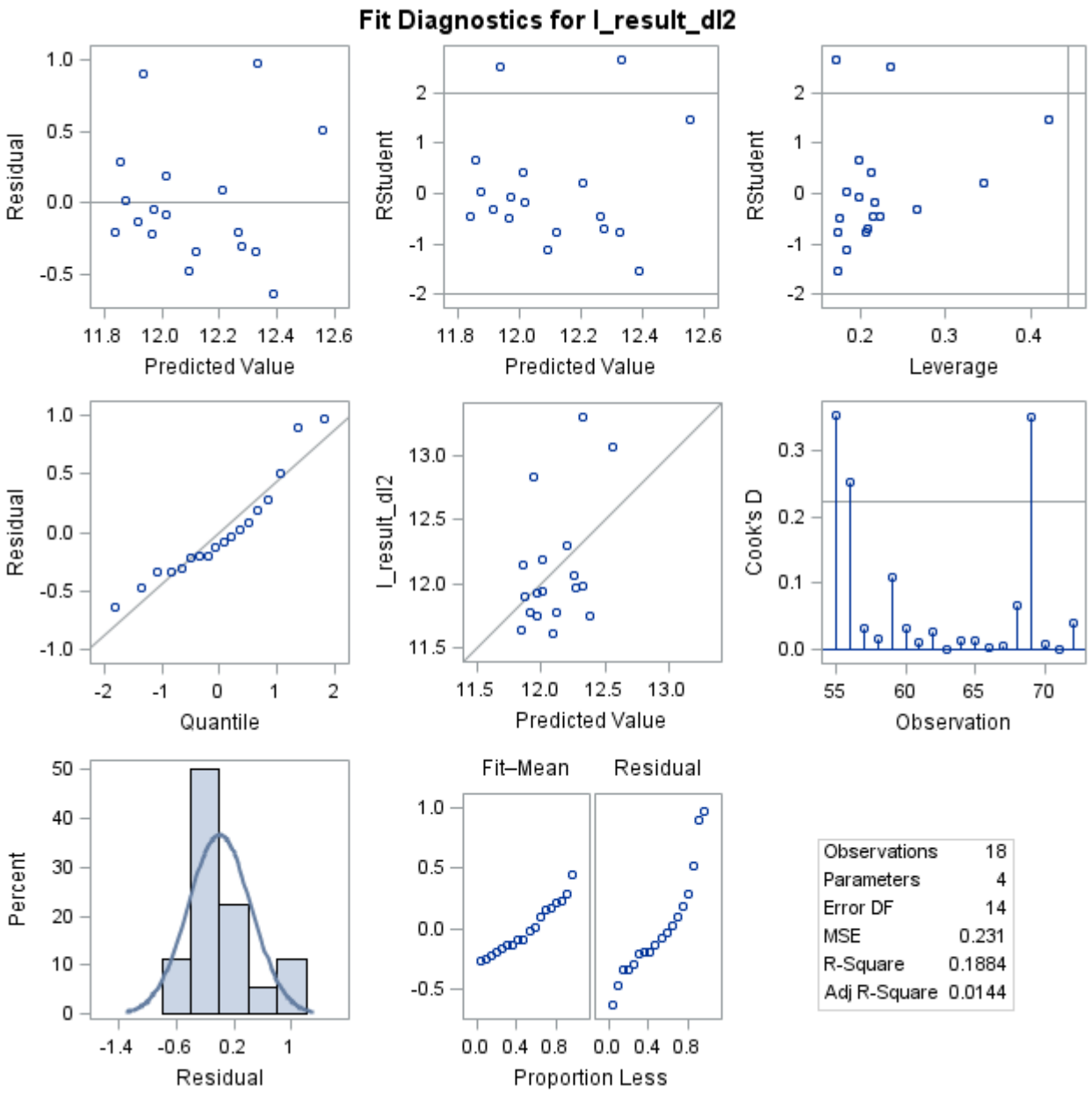
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.75061155	0.25020385	1.08	0.3884
Error	14	3.23449920	0.23103566		
Corrected Total	17	3.98511075			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.188354	3.969528	0.480662	12.10879

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.06302257	0.06302257	0.27	0.6096
BERA	2	0.68758898	0.34379449	1.49	0.2594

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.15688861	0.15688861	0.68	0.4237
BERA	2	0.68758898	0.34379449	1.49	0.2594


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.231
R-Square 0.1884
Adj R-Square 0.0144

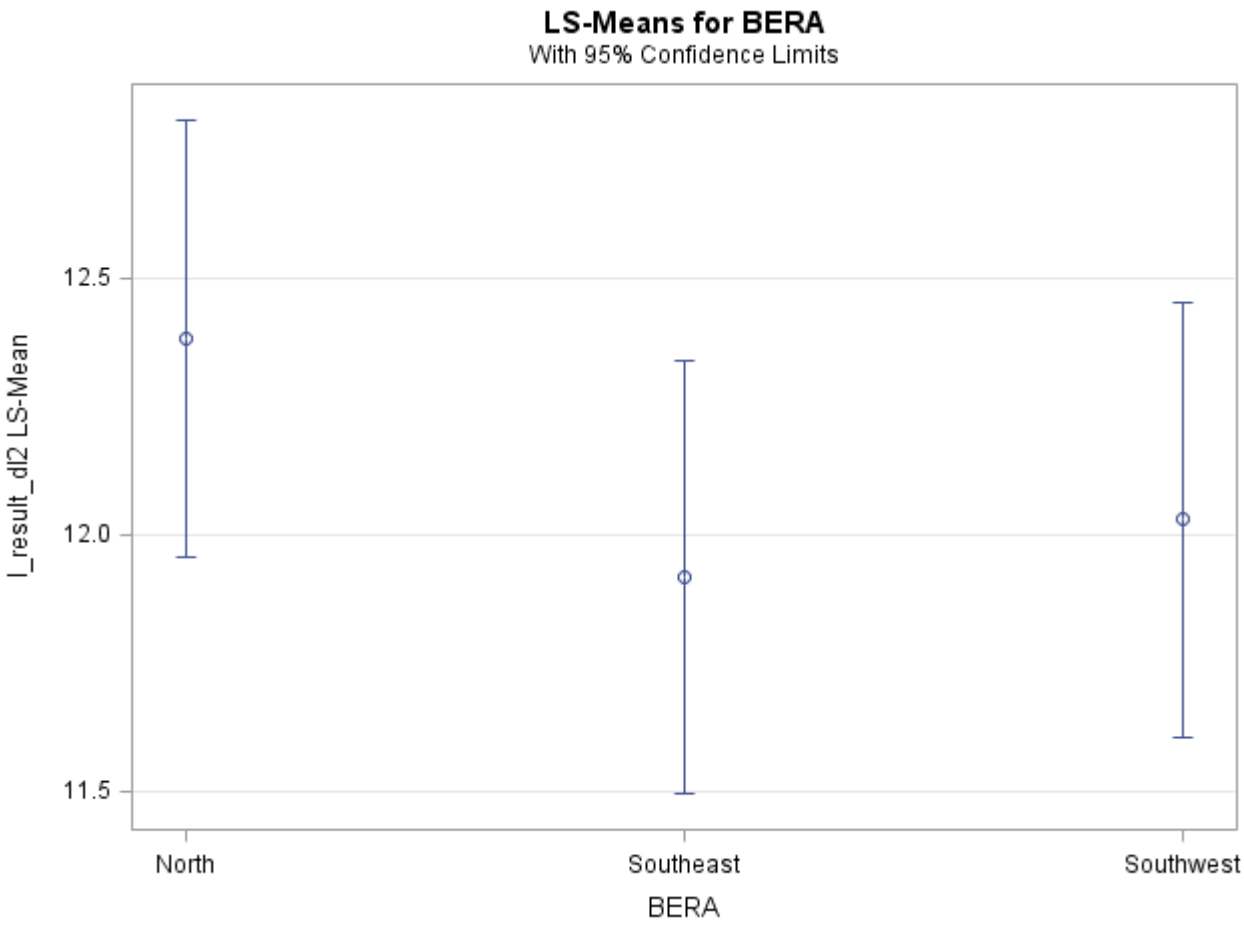
PCBs Total PCBs congener (209 specified)
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.3822464	1
Southeast	11.9160026	2
Southwest	12.0281121	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2551	0.4401
2	0.2551		0.9145
3	0.4401	0.9145	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
12.5
12.0
11.5
North
Southeast
Southwest
BERA

Pesticides Dieldrin

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Dieldrin

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

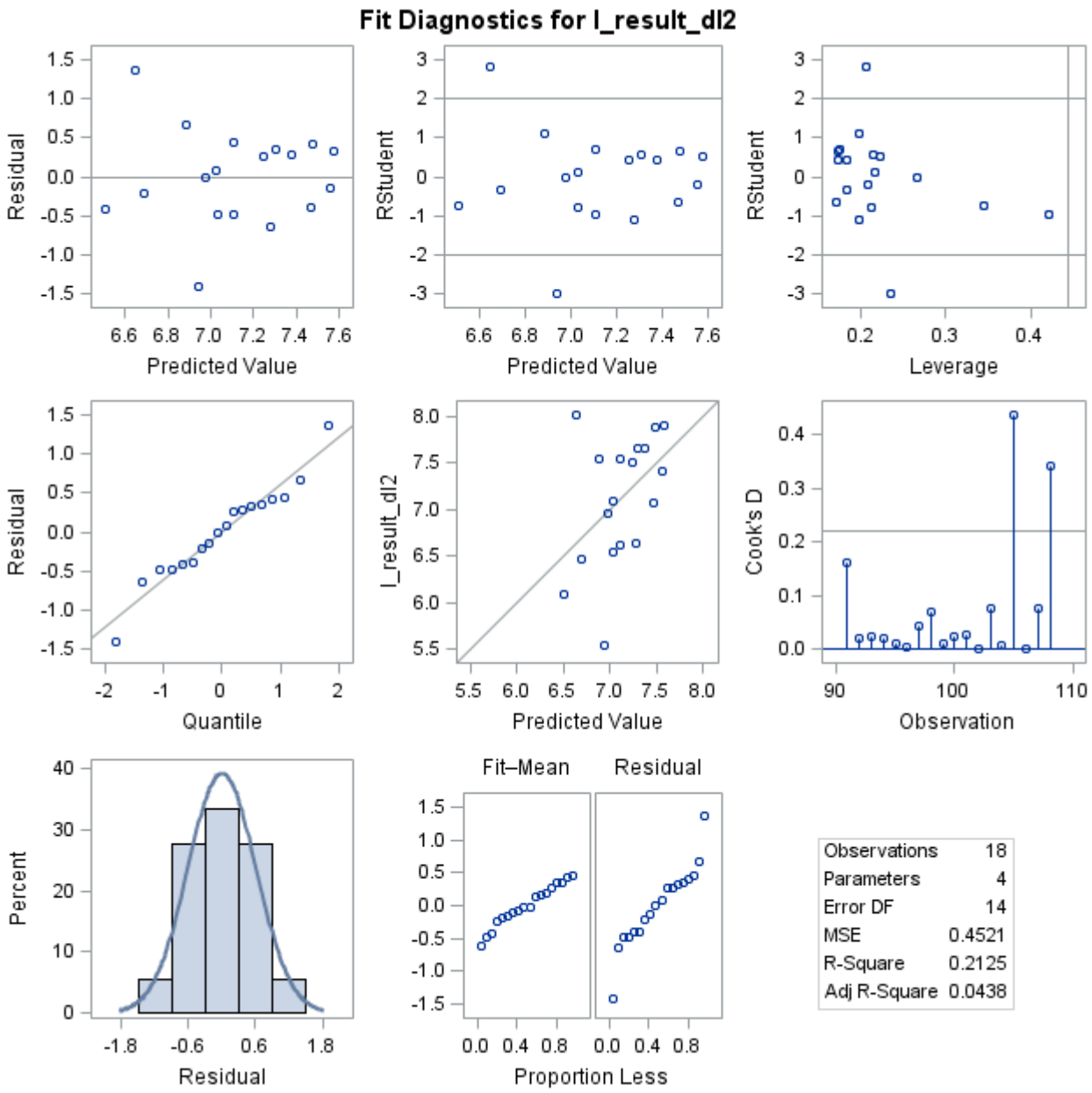
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.70844152	0.56948051	1.26	0.3261
Error	14	6.32942189	0.45210156		
Corrected Total	17	8.03786341			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.212549	9.440313	0.672385	7.122486

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.63593775	0.63593775	1.41	0.2554
BERA	2	1.07250377	0.53625188	1.19	0.3343

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.40389445	0.40389445	0.89	0.3606
BERA	2	1.07250377	0.53625188	1.19	0.3343


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.4521
R-Square 0.2125
Adj R-Square 0.0438

Pesticides Dieldrin

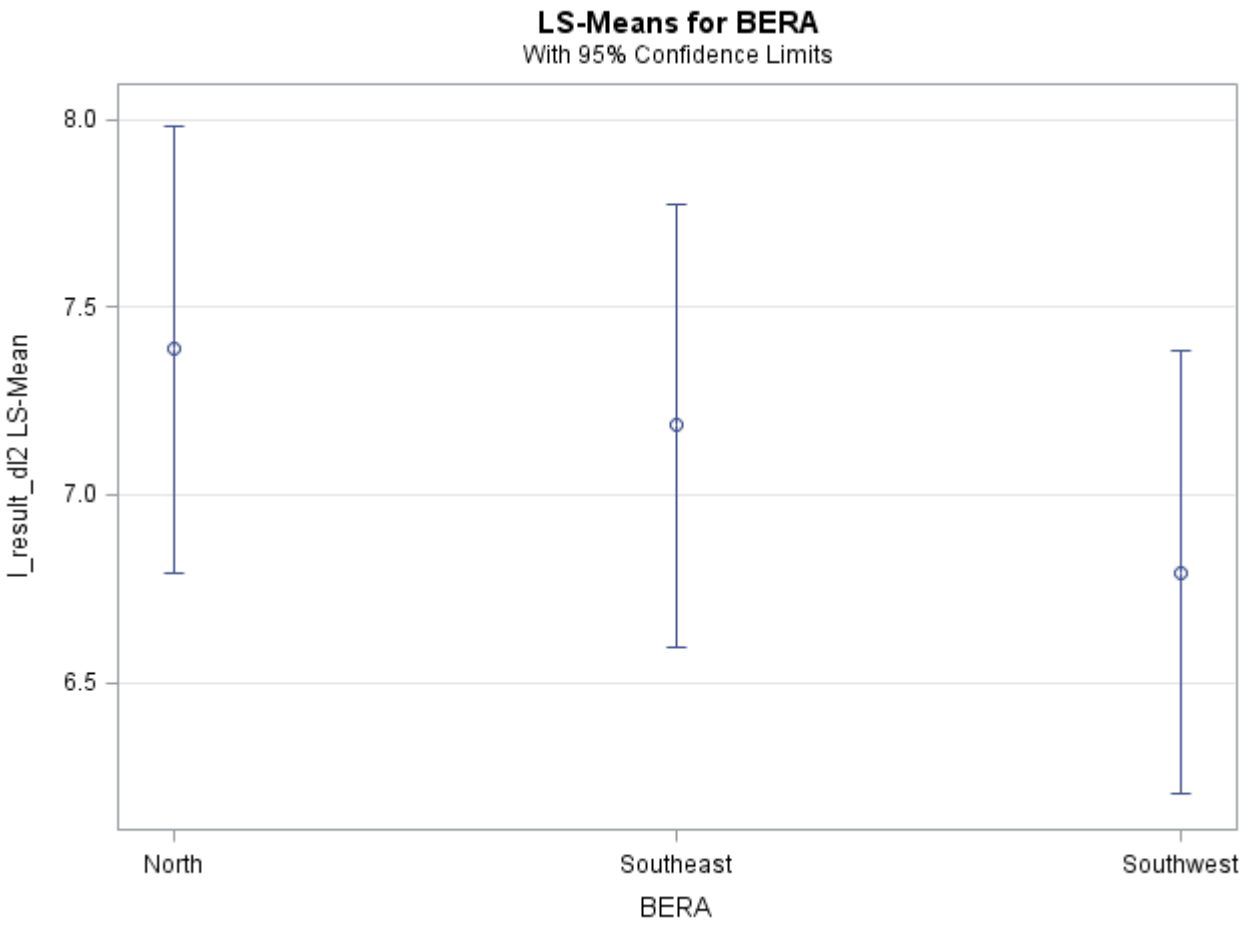
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.38750915	1
Southeast	7.18641233	2
Southwest	6.79353765	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8671	0.3165
2	0.8671		0.5817
3	0.3165	0.5817	


LS-Means for BERA
With 95% Confidence Limits
8.0
7.5
7.0
6.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Heptachlor epoxide
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Heptachlor epoxide

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

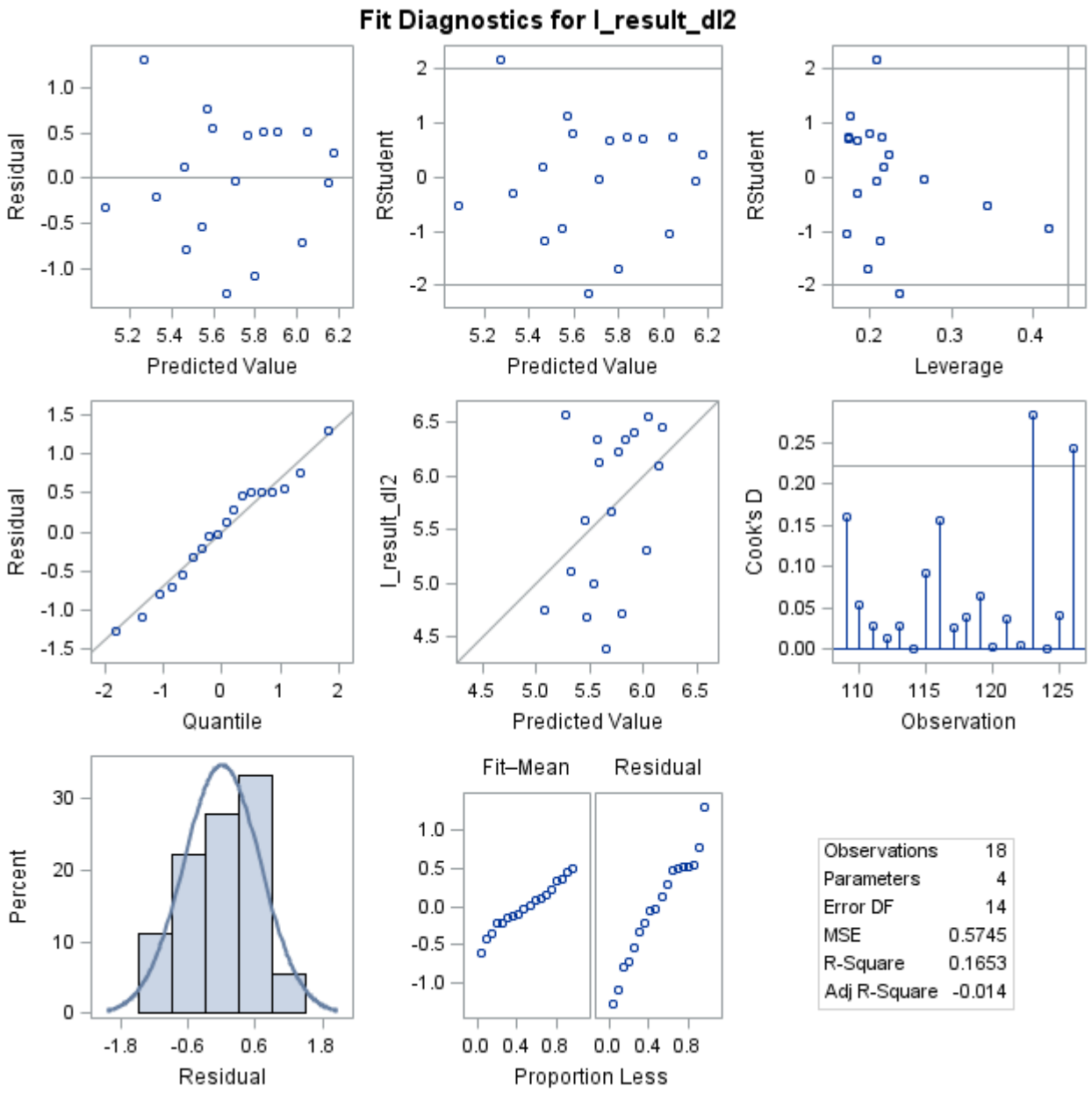
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.59298281	0.53099427	0.92	0.4546
Error	14	8.04250897	0.57446493		
Corrected Total	17	9.63549178			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.165324	13.32417	0.757935	5.688419

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.99457386	0.99457386	1.73	0.2094
BERA	2	0.59840895	0.29920448	0.52	0.6051

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.72437832	0.72437832	1.26	0.2804
BERA	2	0.59840895	0.29920448	0.52	0.6051


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.5745
R-Square 0.1653
Adj R-Square -0.014

Pesticides Heptachlor epoxide

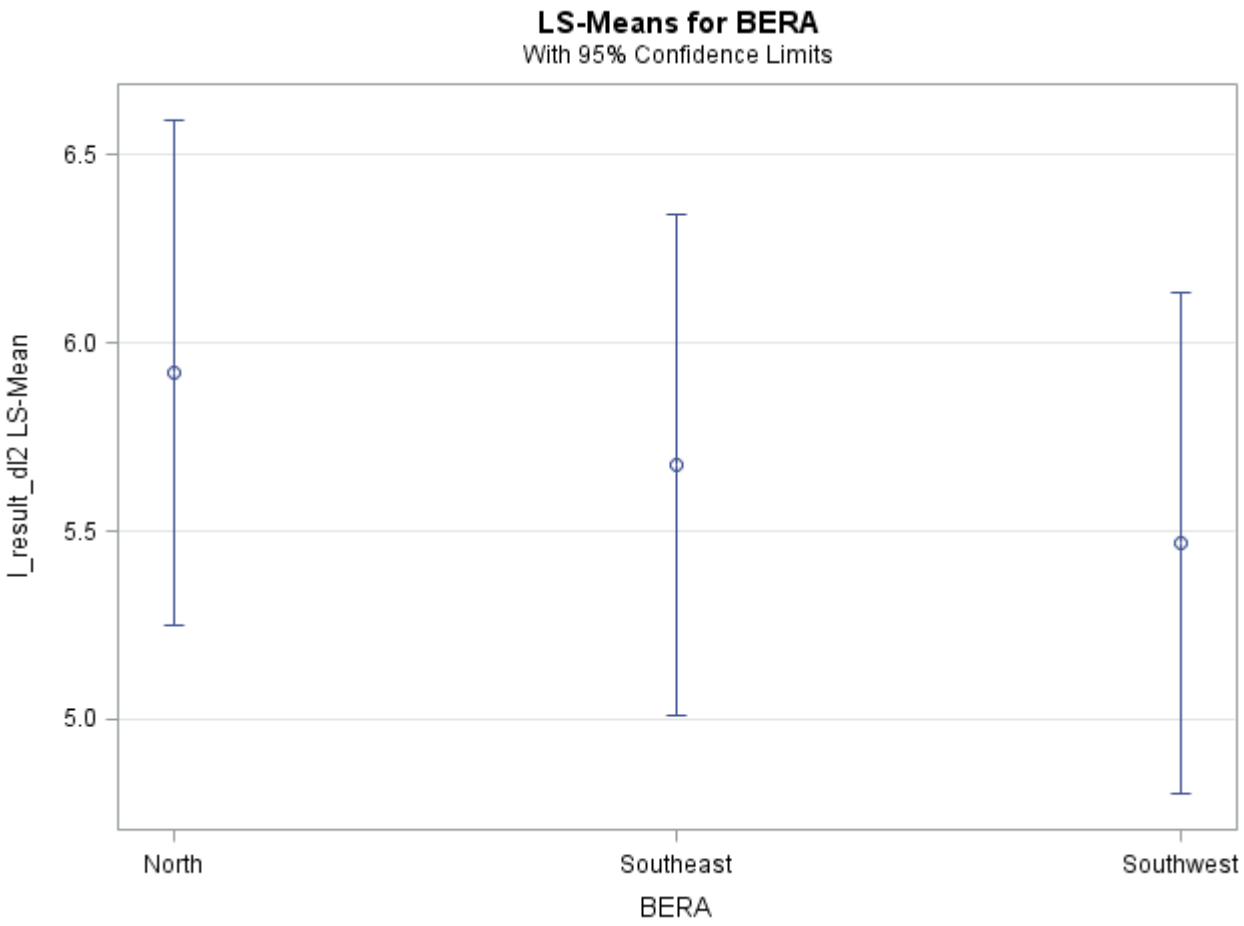
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	5.92047456	1
Southeast	5.67684512	2
Southwest	5.46793837	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8484	0.5768
2	0.8484		0.8830
3	0.5768	0.8830	


LS-Means for BERA
With 95% Confidence Limits
6.5
6.0
5.5
5.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Hexachlorobenzene
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Hexachlorobenzene

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

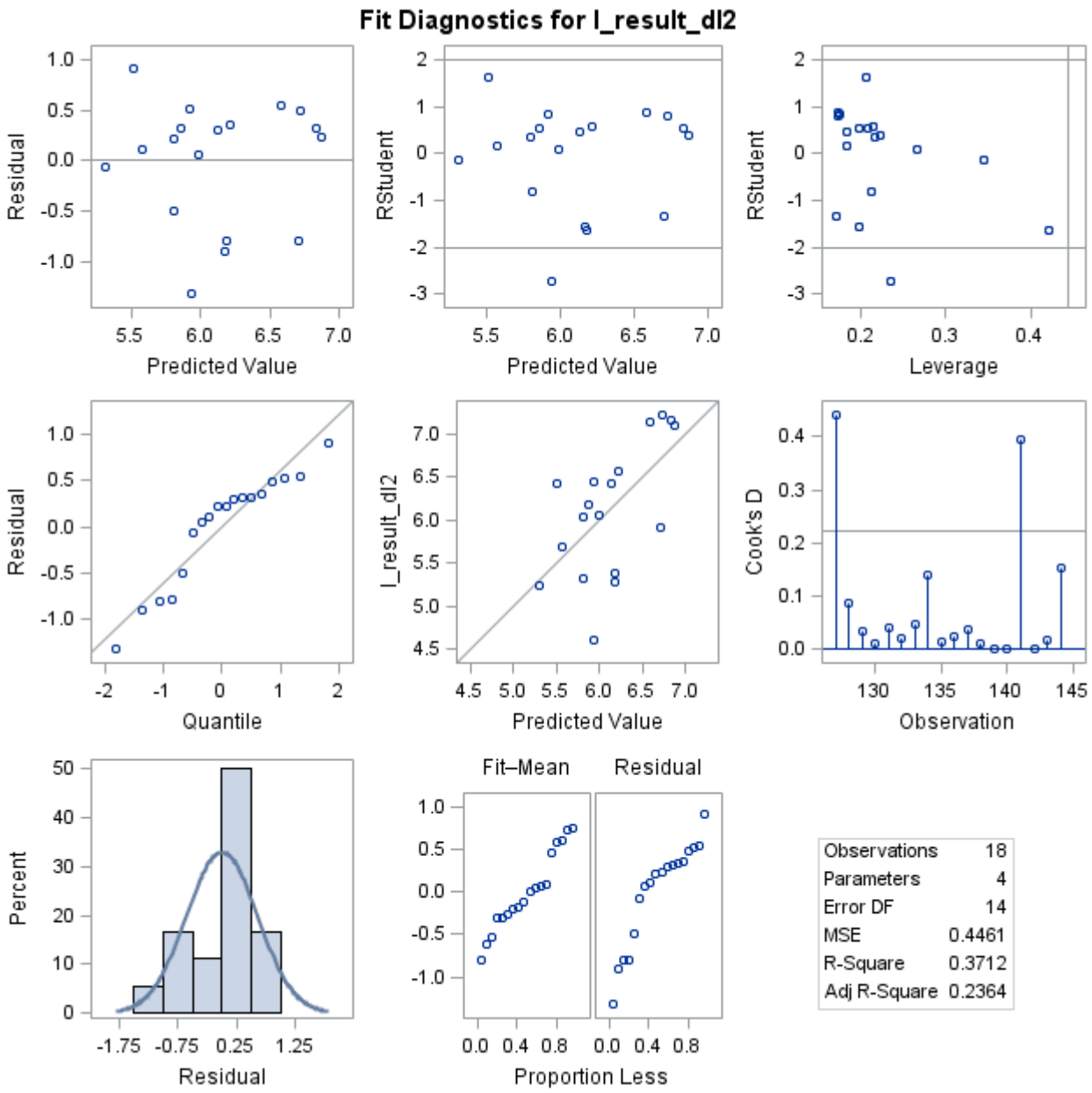
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.68592308	1.22864103	2.75	0.0817
Error	14	6.24487385	0.44606242		
Corrected Total	17	9.93079693			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.371161	10.91699	0.667879	6.117795

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.46179986	1.46179986	3.28	0.0918
BERA	2	2.22412323	1.11206161	2.49	0.1185

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.85840906	0.85840906	1.92	0.1871
BERA	2	2.22412323	1.11206161	2.49	0.1185


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.4461
R-Square 0.3712
Adj R-Square 0.2364

Pesticides Hexachlorobenzene

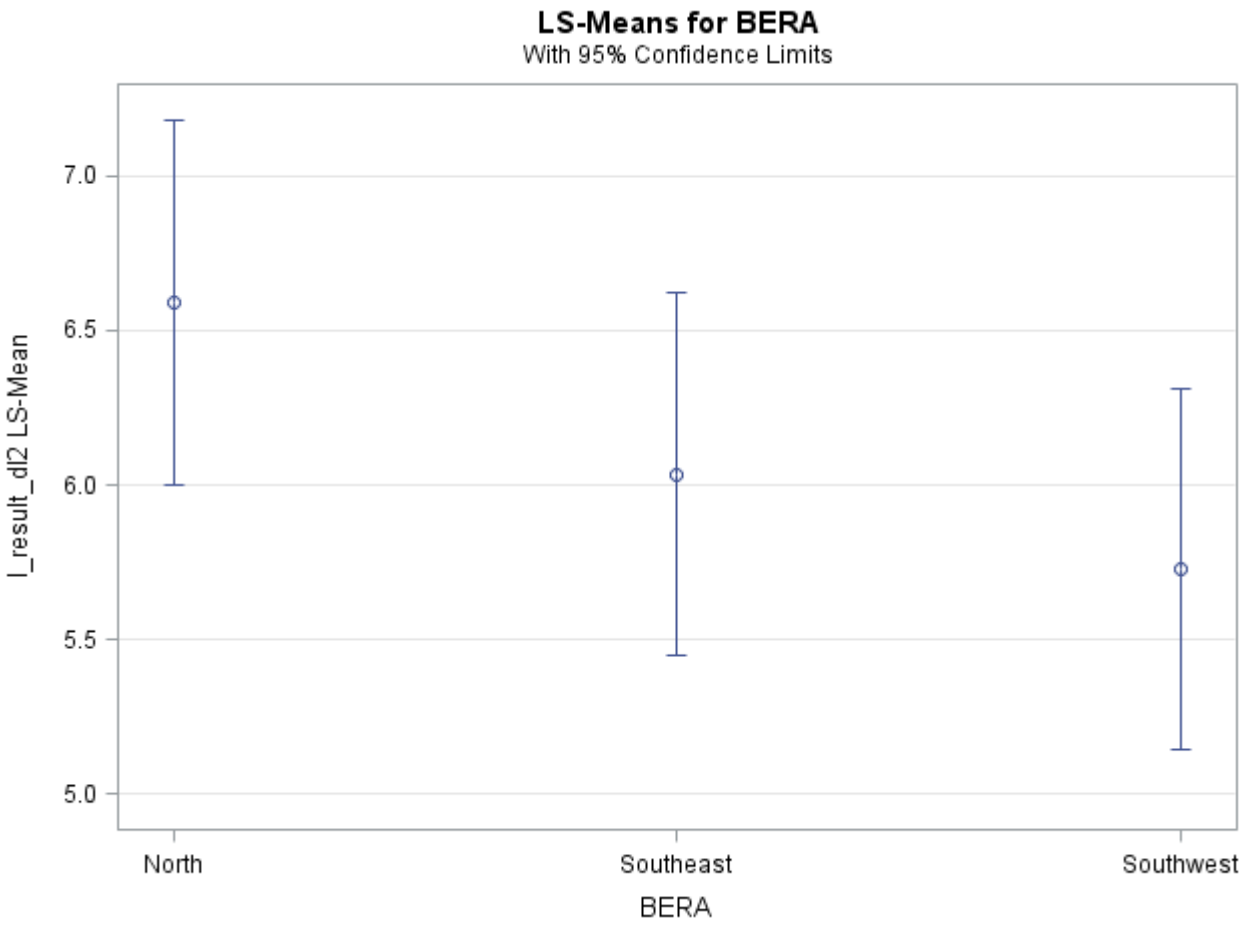
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	6.59033029	1
Southeast	6.03571770	2
Southwest	5.72733820	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3579	0.1045
2	0.3579		0.7093
3	0.1045	0.7093	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
7.0
6.5
6.0
5.5
5.0
North
Southeast
Southwest
BERA

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

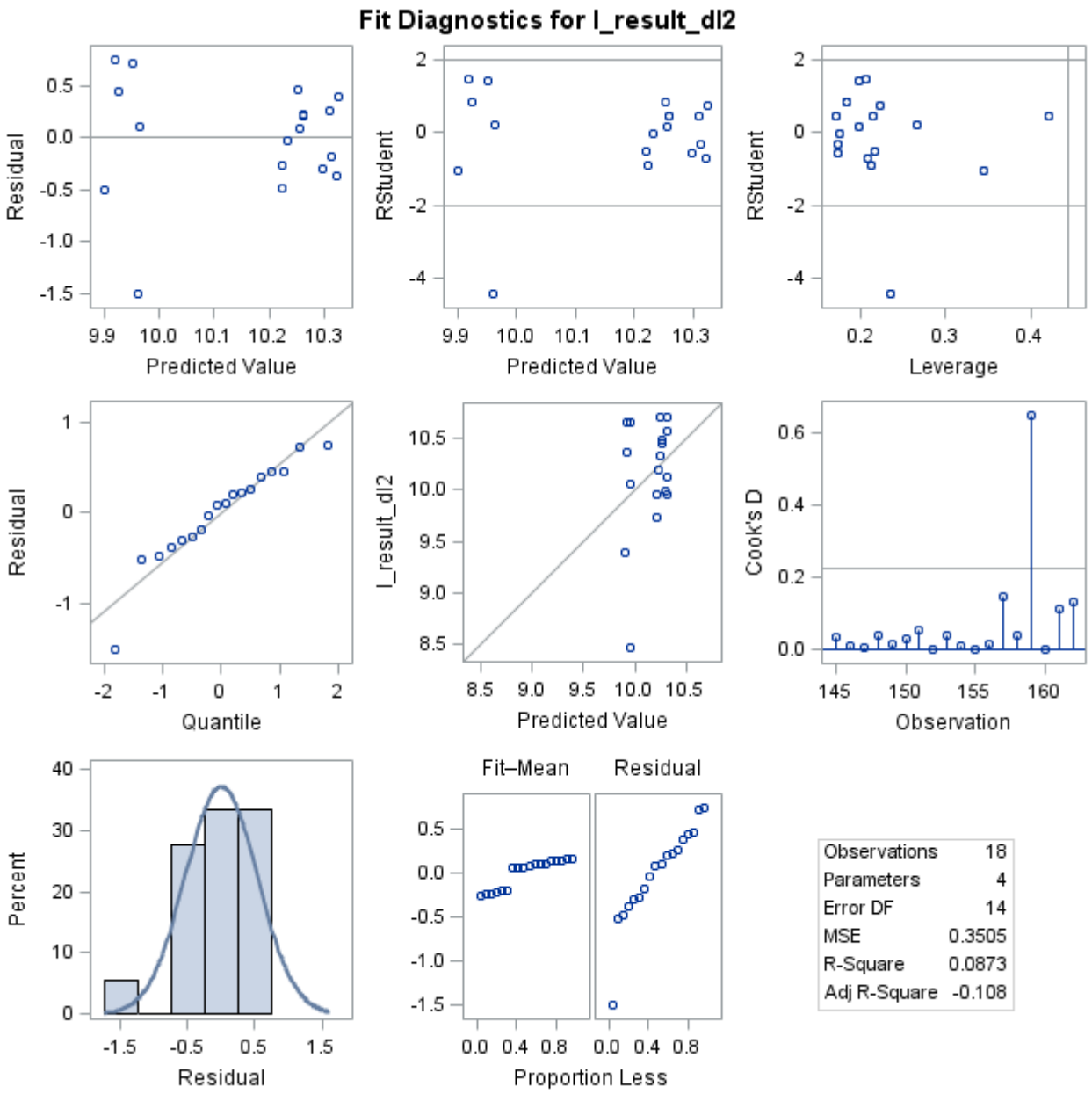
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.46925676	0.15641892	0.45	0.7238
Error	14	4.90766976	0.35054784		
Corrected Total	17	5.37692651			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.087272	5.826992	0.592071	10.16083

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.02818647	0.02818647	0.08	0.7809
BERA	2	0.44107029	0.22053514	0.63	0.5475

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.00761106	0.00761106	0.02	0.8850
BERA	2	0.44107029	0.22053514	0.63	0.5475


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.3505
R-Square 0.0873
Adj R-Square -0.108

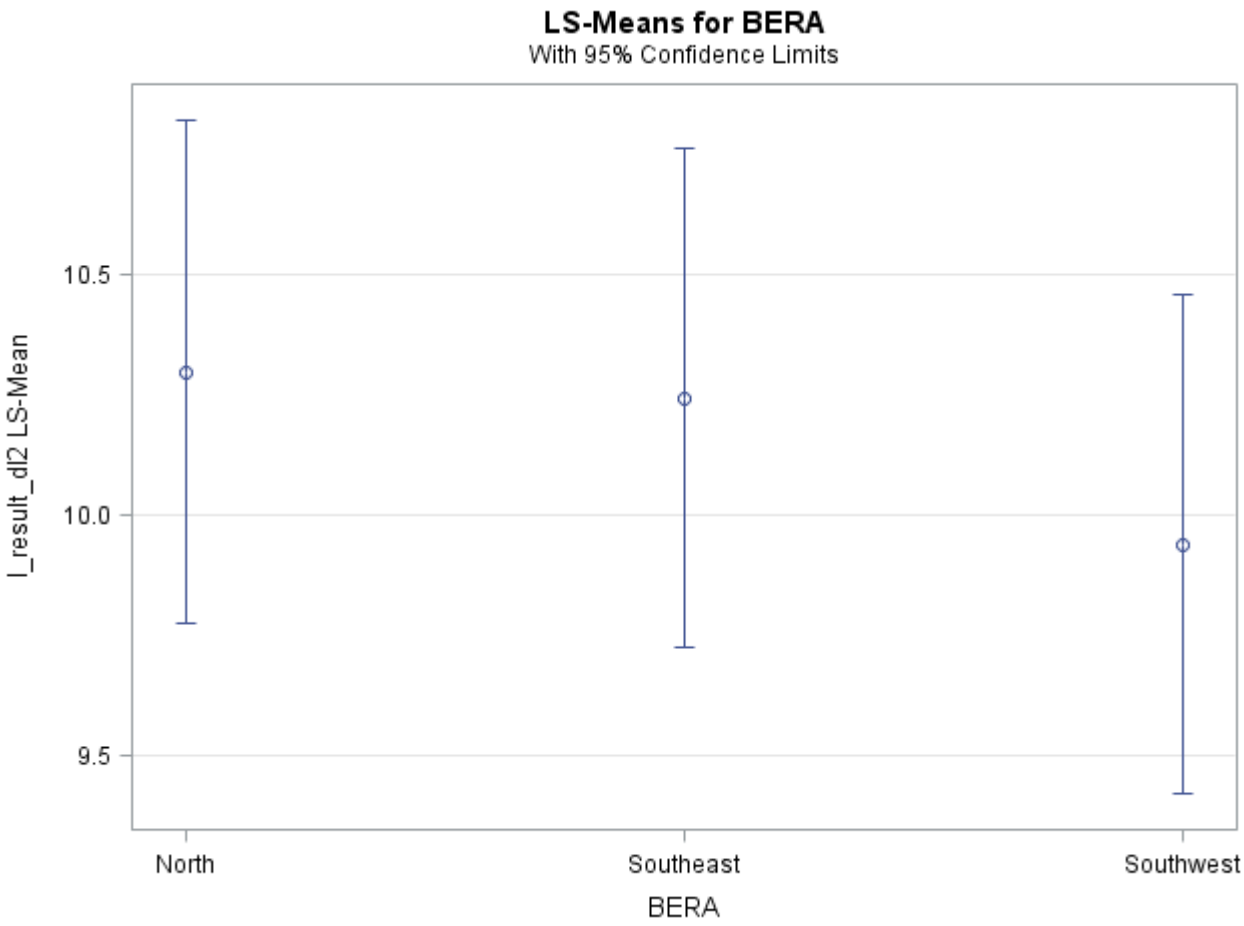
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	10.2989104	1
Southeast	10.2433749	2
Southwest	9.9402072	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9859	0.5678
2	0.9859		0.6570
3	0.5678	0.6570	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.5
10.0
9.5
North
Southeast
Southwest
BERA

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

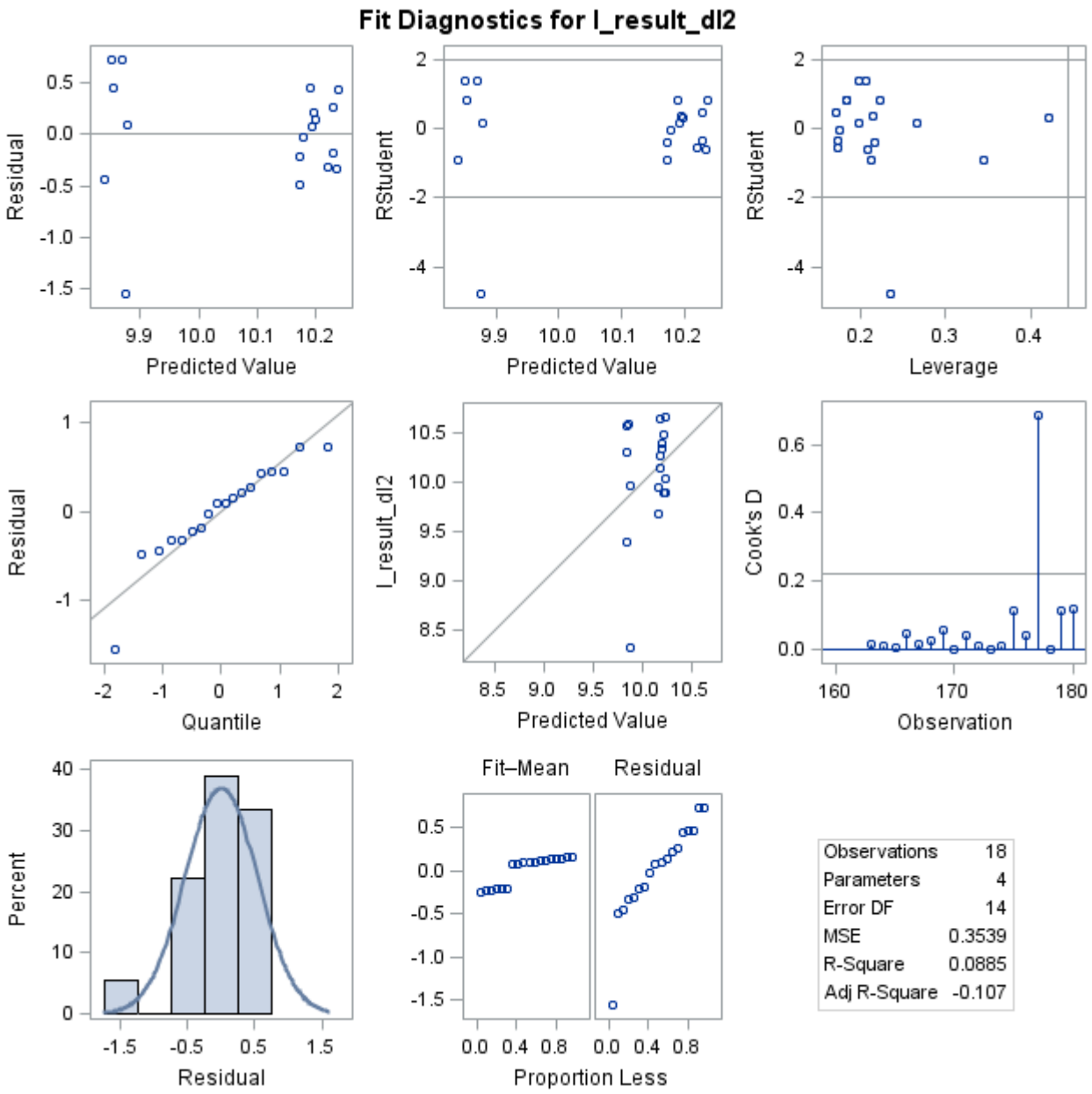
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.48127430	0.16042477	0.45	0.7191
Error	14	4.95450098	0.35389293		
Corrected Total	17	5.43577527			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.088538	5.895824	0.594889	10.09001

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.01692463	0.01692463	0.05	0.8300
BERA	2	0.46434967	0.23217483	0.66	0.5341

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.00284391	0.00284391	0.01	0.9298
BERA	2	0.46434967	0.23217483	0.66	0.5341


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.3539
R-Square 0.0885
Adj R-Square -0.107

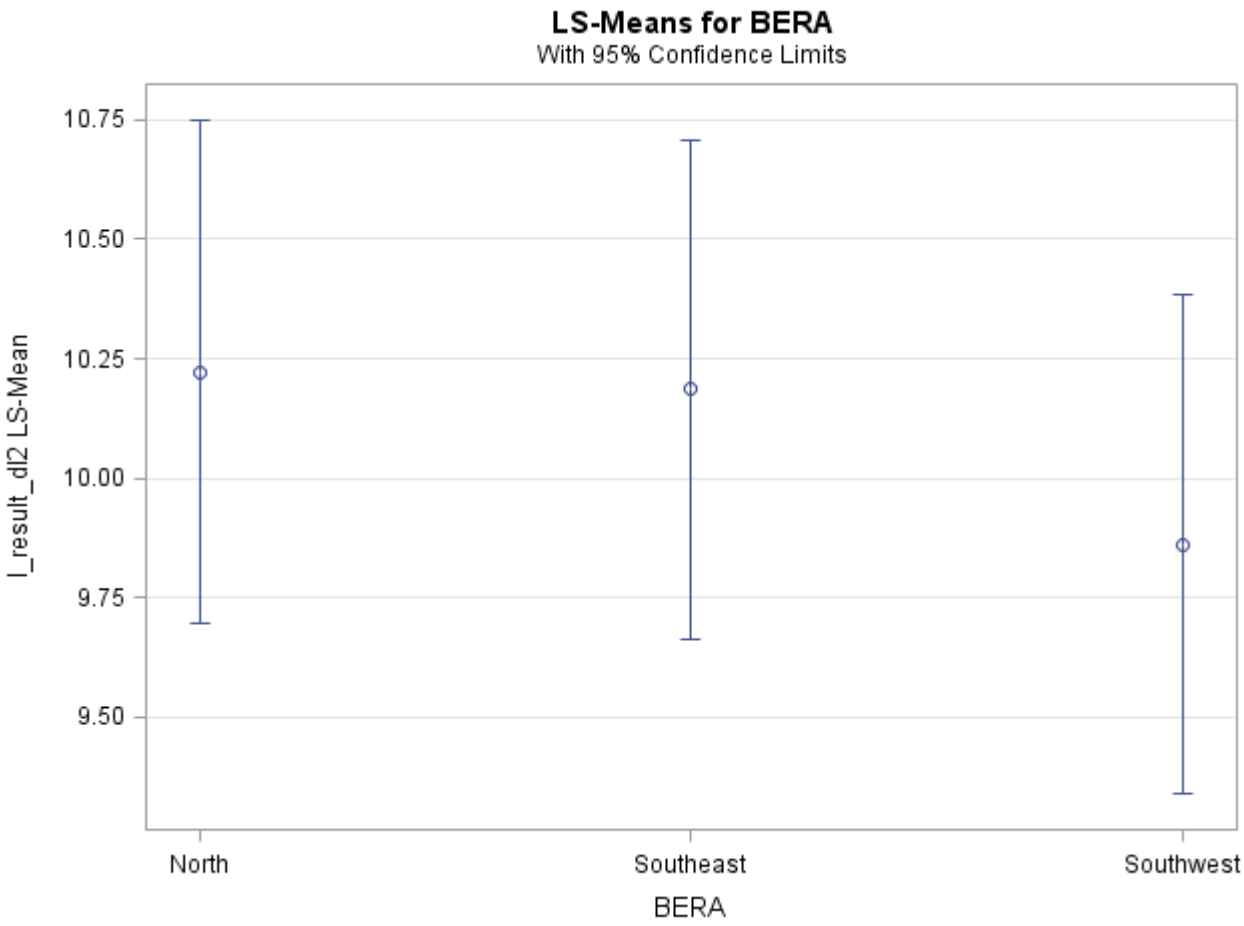
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	10.2219957	1
Southeast	10.1855934	2
Southwest	9.8624288	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9940	0.5693
2	0.9940		0.6244
3	0.5693	0.6244	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.75
10.50
10.25
10.00
9.75
9.50
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

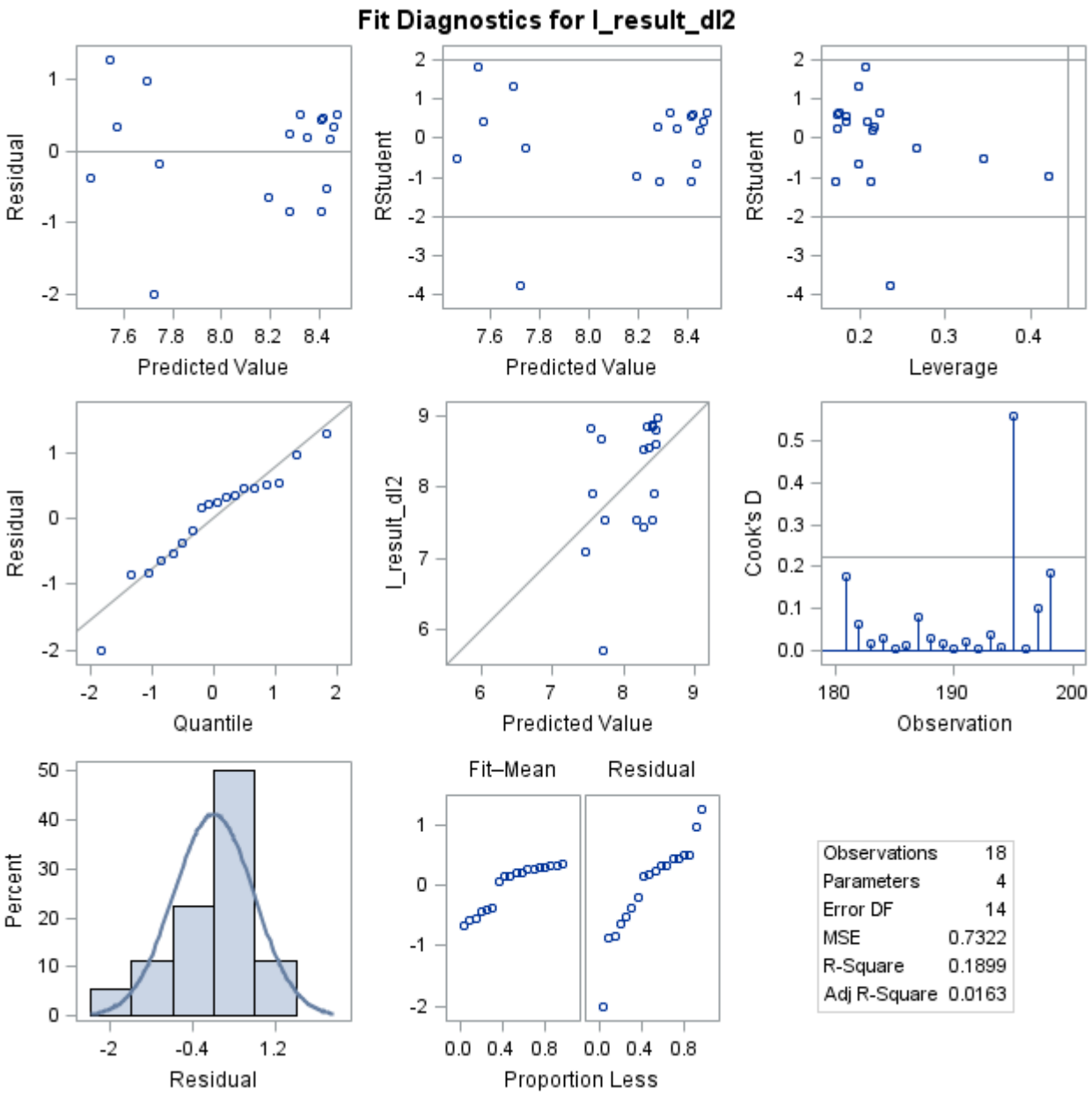
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.40227544	0.80075848	1.09	0.3843
Error	14	10.25024506	0.73216036		
Corrected Total	17	12.65252049			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.189865	10.53406	0.855664	8.122829

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.27889288	0.27889288	0.38	0.5470
BERA	2	2.12338256	1.06169128	1.45	0.2677

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.14738109	0.14738109	0.20	0.6605
BERA	2	2.12338256	1.06169128	1.45	0.2677


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.7322
R-Square 0.1899
Adj R-Square 0.0163

Pesticides Total alpha + gamma chlordane

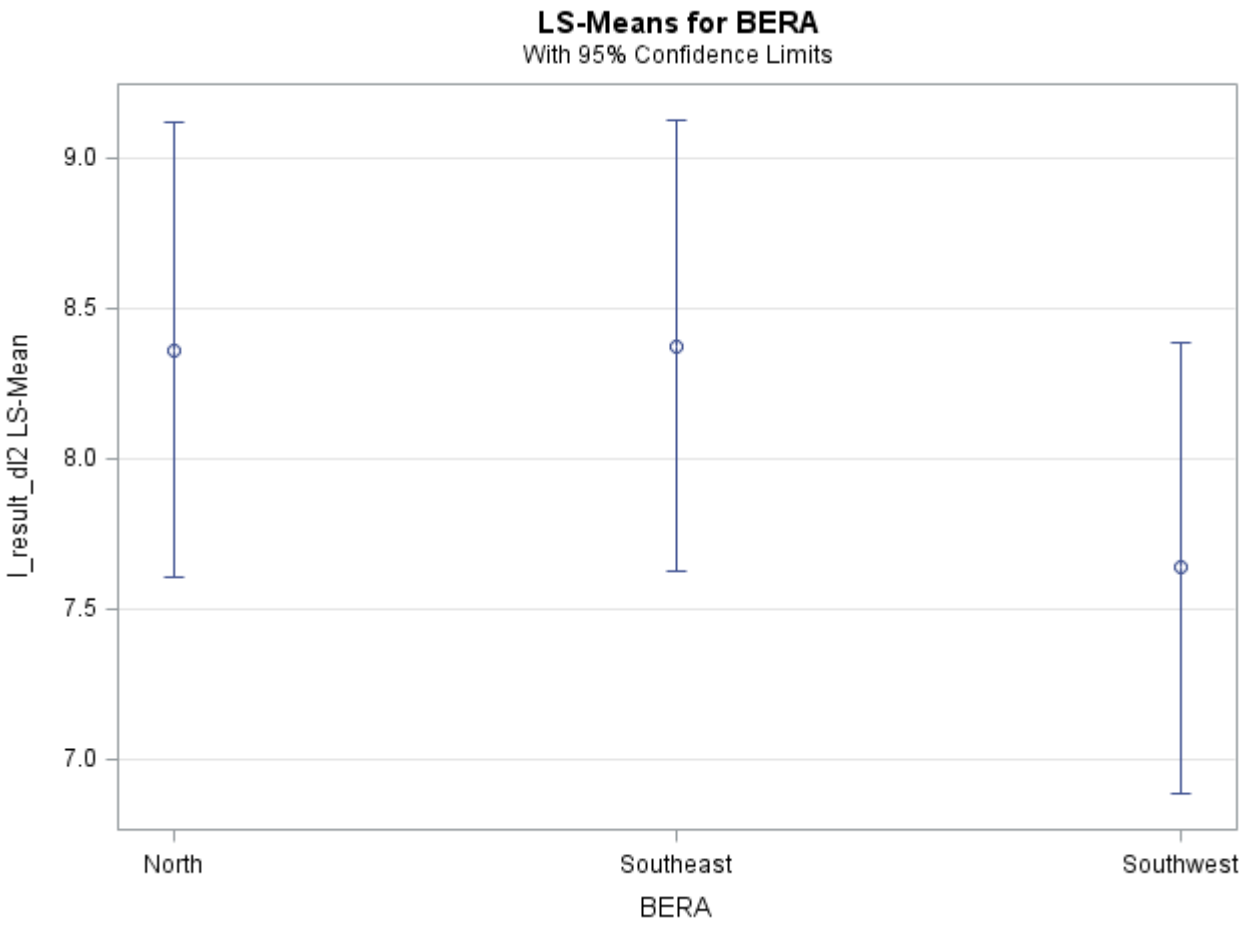
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.36022252	1
Southeast	8.37325895	2
Southwest	7.63500647	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9996	0.3444
2	0.9996		0.3232
3	0.3444	0.3232	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.0
8.5
8.0
7.5
7.0
North
Southeast
Southwest
BERA

Pesticides alpha-BHC

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides alpha-BHC

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

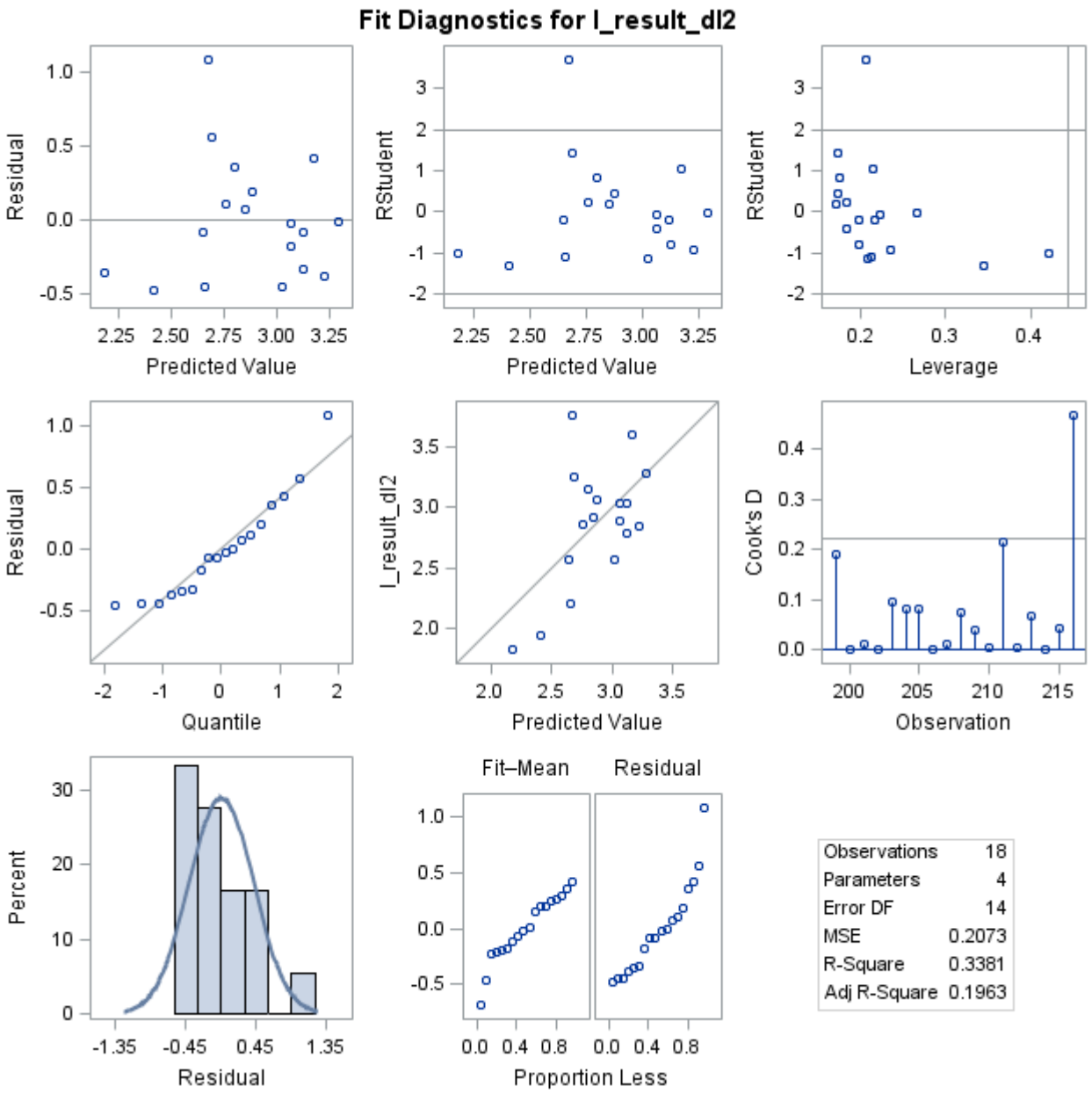
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.48239688	0.49413229	2.38	0.1130
Error	14	2.90158613	0.20725615		
Corrected Total	17	4.38398301			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.338139	15.87401	0.455254	2.867921

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.25288758	1.25288758	6.05	0.0276
BERA	2	0.22950930	0.11475465	0.55	0.5869

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.41367977	1.41367977	6.82	0.0205
BERA	2	0.22950930	0.11475465	0.55	0.5869


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.2073
R-Square 0.3381
Adj R-Square 0.1963

Pesticides alpha-BHC

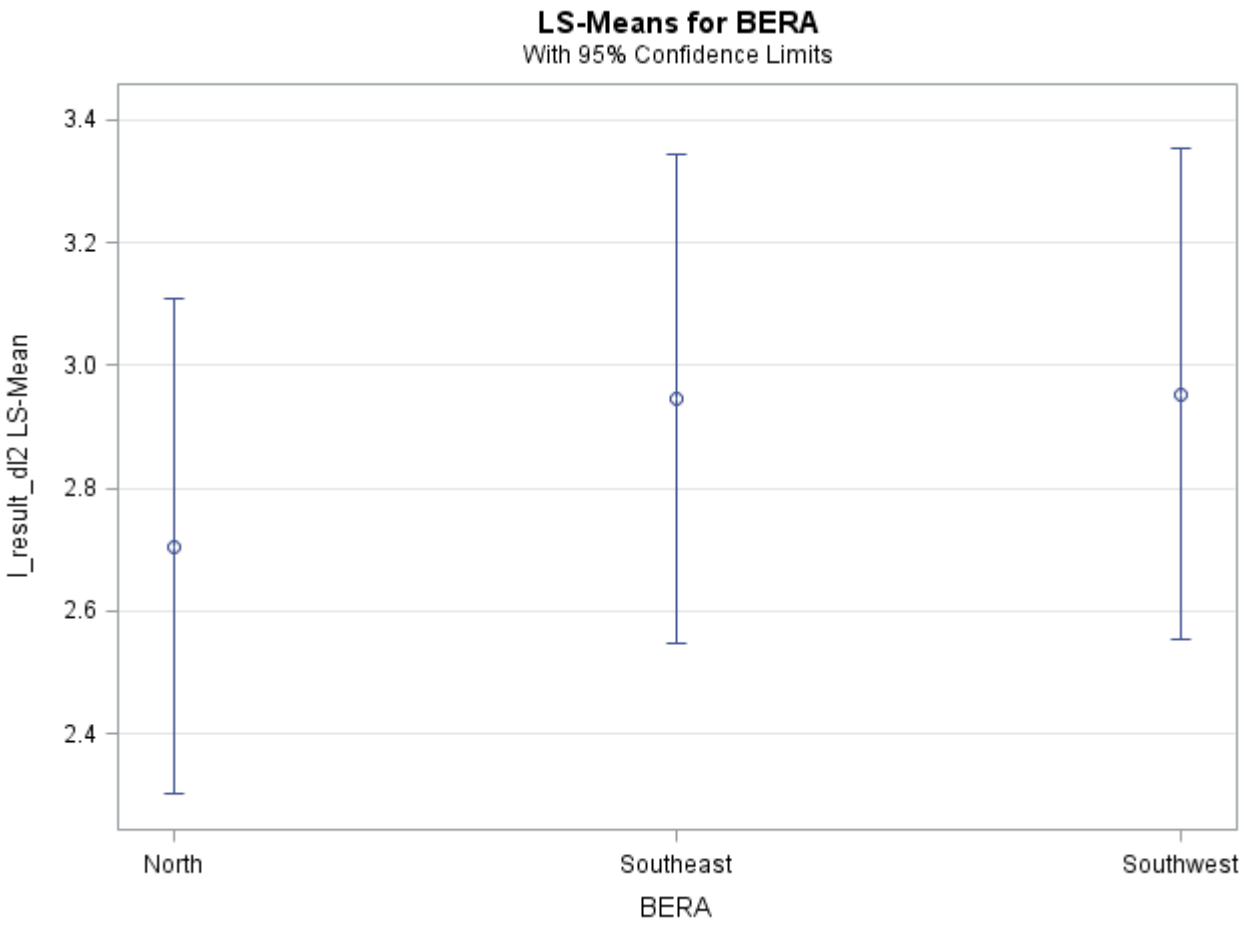
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.70543552	1
Southeast	2.94563567	2
Southwest	2.95269142	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6479	0.6322
2	0.6479		0.9996
3	0.6322	0.9996	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.4
3.2
3.0
2.8
2.6
2.4
North
Southeast
Southwest
BERA

Pesticides beta-BHC

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides beta-BHC

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

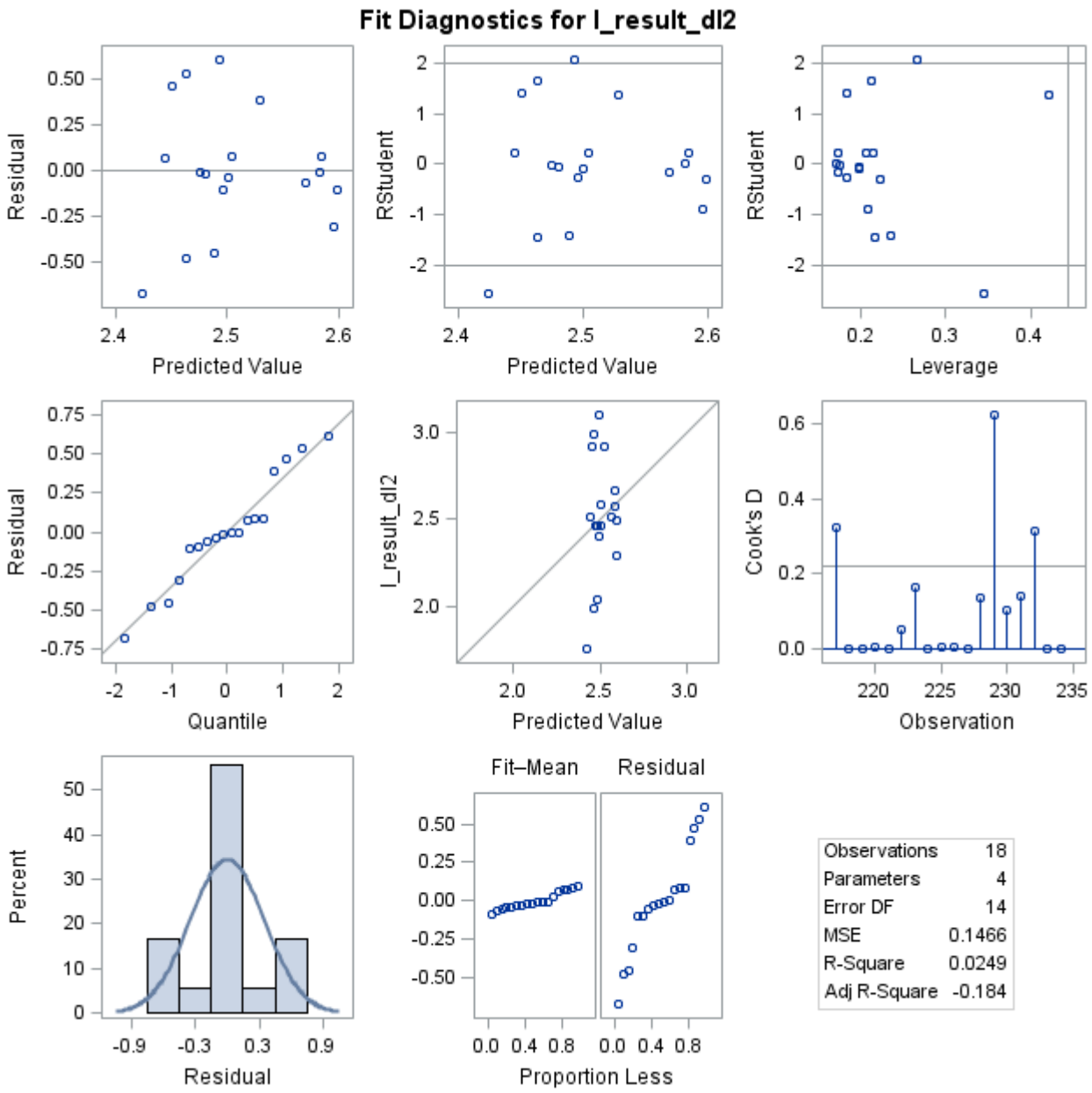
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.05242042	0.01747347	0.12	0.9473
Error	14	2.05194480	0.14656749		
Corrected Total	17	2.10436523			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.024910	15.26417	0.382841	2.508104

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.01727957	0.01727957	0.12	0.7364
BERA	2	0.03514085	0.01757043	0.12	0.8879

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.00896960	0.00896960	0.06	0.8082
BERA	2	0.03514085	0.01757043	0.12	0.8879


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.1466
R-Square 0.0249
Adj R-Square -0.184

Pesticides beta-BHC

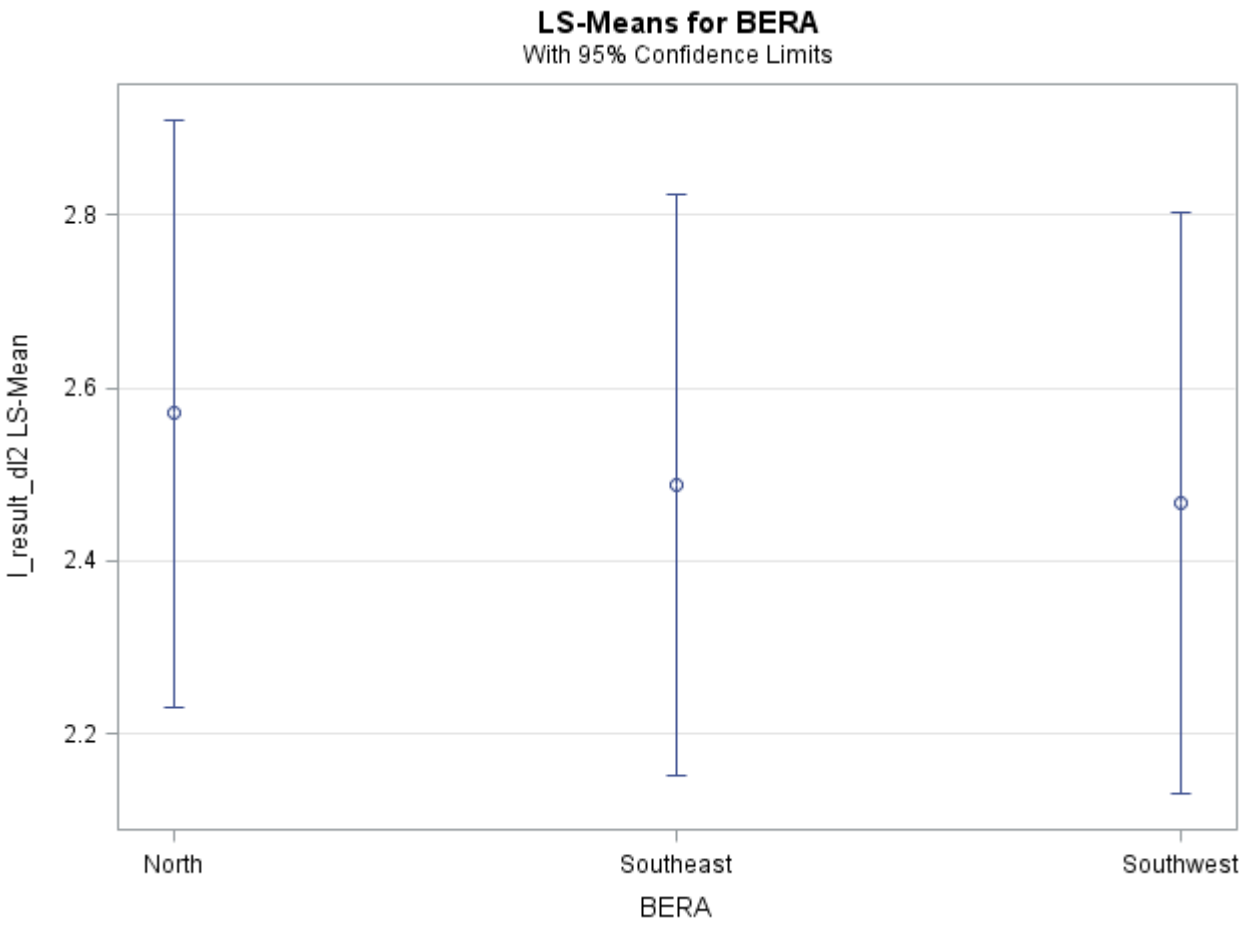
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.57060520	1
Southeast	2.48690635	2
Southwest	2.46680162	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9263	0.8893
2	0.9263		0.9955
3	0.8893	0.9955	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
2.8
2.6
2.4
2.2
North
Southeast
Southwest
BERA

Pesticides cis-Nonachlor

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 18

Number of Observations Used 18

Pesticides cis-Nonachlor

NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

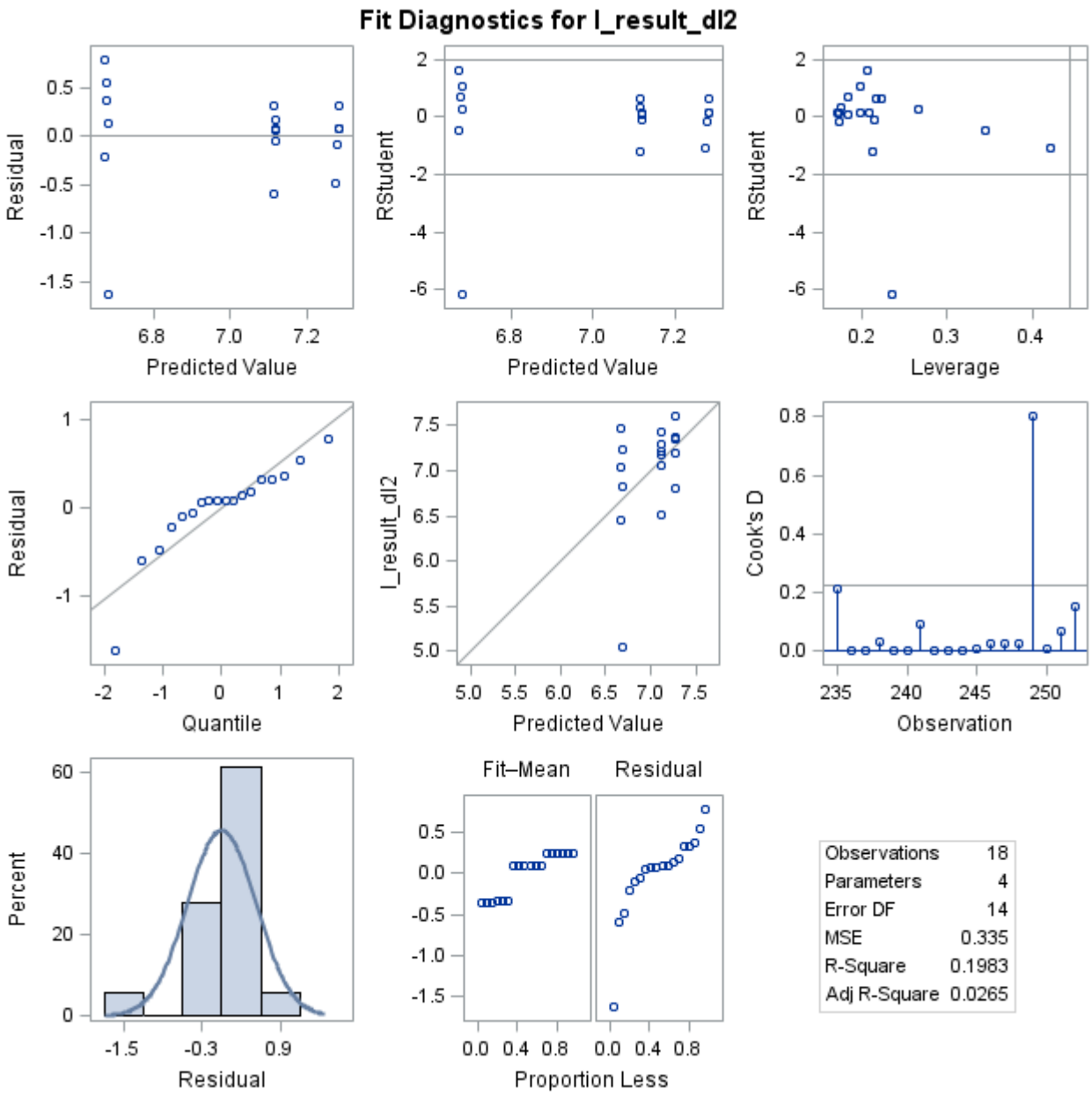
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.15986618	0.38662206	1.15	0.3619
Error	14	4.68959893	0.33497135		
Corrected Total	17	5.84946510			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.198286	8.239826	0.578767	7.024021

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.02480728	0.02480728	0.07	0.7895
BERA	2	1.13505890	0.56752945	1.69	0.2193

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.00015988	0.00015988	0.00	0.9829
BERA	2	1.13505890	0.56752945	1.69	0.2193


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 18
Parameters 4
Error DF 14
MSE 0.335
R-Square 0.1983
Adj R-Square 0.0265

Pesticides cis-Nonachlor

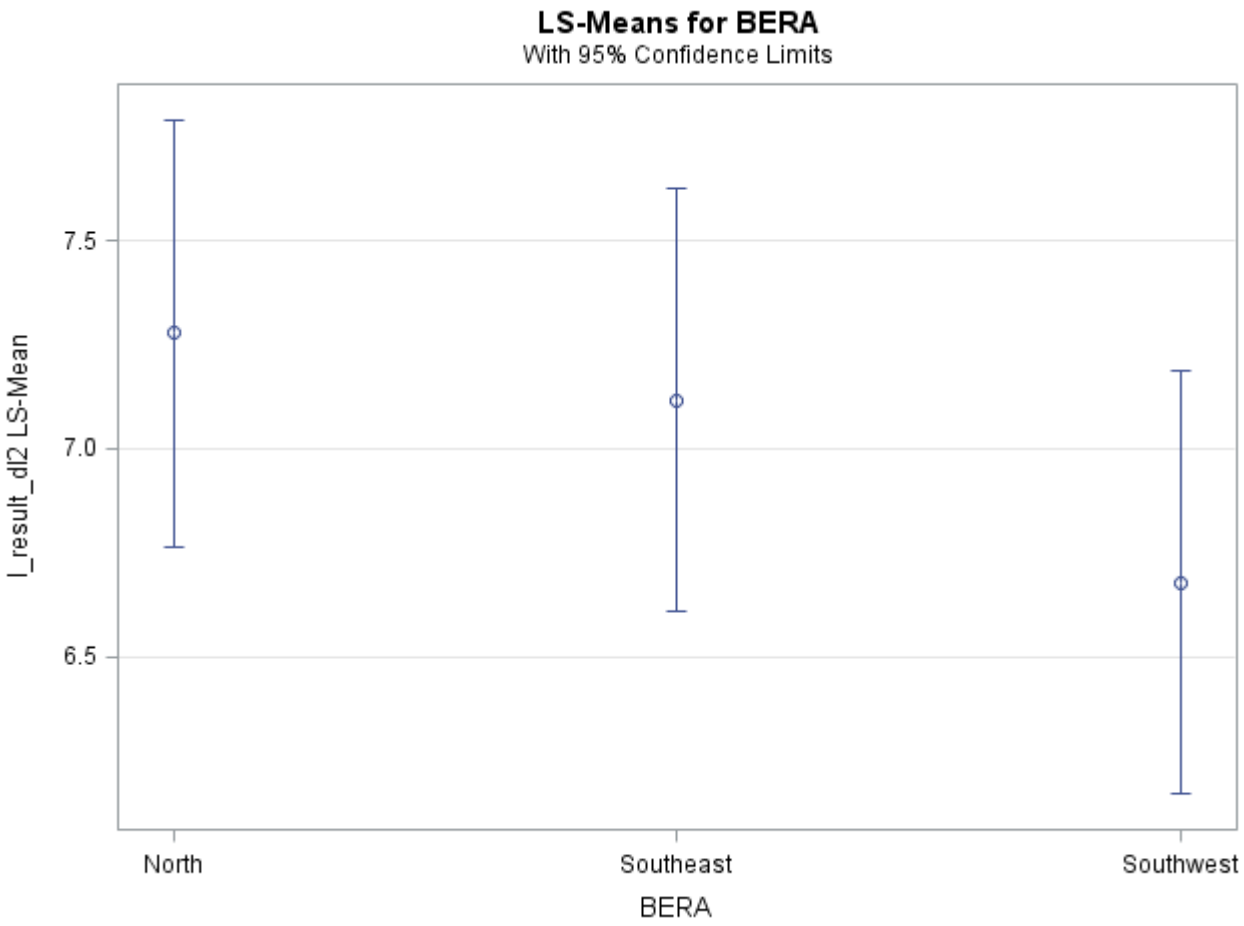
NBSA Whole Body Flounder (Winter/Summer) ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.27784505	1
Southeast	7.11622470	2
Southwest	6.67799385	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8830	0.2150
2	0.8830		0.4122
3	0.2150	0.4122	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
7.5
7.0
6.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

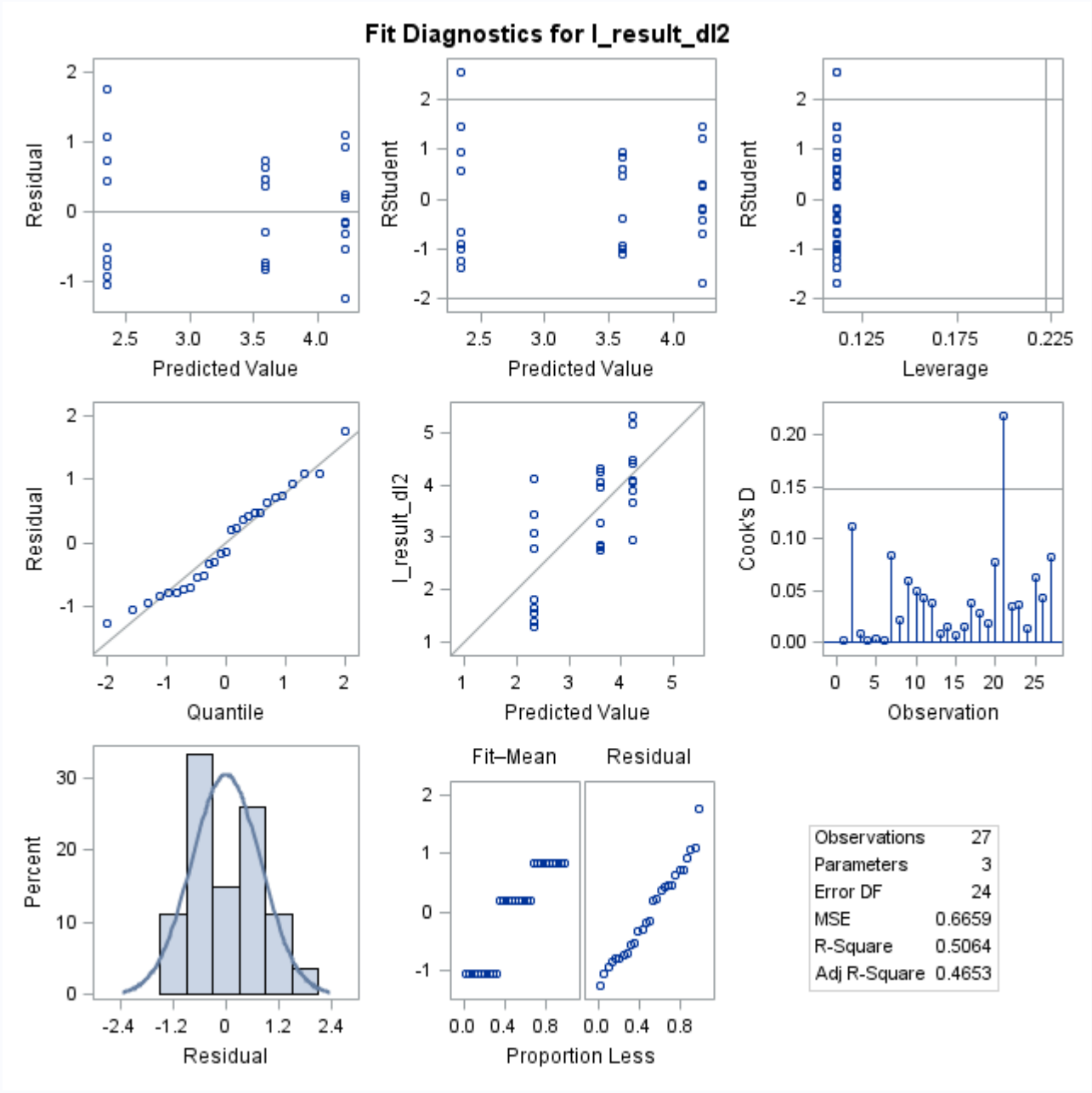
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	16.39755935	8.19877967	12.31	0.0002
Error	24	15.98149604	0.66589567		
Corrected Total	26	32.37905539			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.506425	24.10084	0.816024	3.385875

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	16.39755935	8.19877967	12.31	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	16.39755935	8.19877967	12.31	0.0002


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.6659
R-Square 0.5064
Adj R-Square 0.4653

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.5426	0.7713	1.95	0.1648
Error	24	9.5139	0.3964		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	9.68	0.0018
Error	15.5780		

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	4.21939008	0.72374108
Southeast	**9**	3.59355026	0.65685536
Southwest	**9**	2.34468595	1.02099309

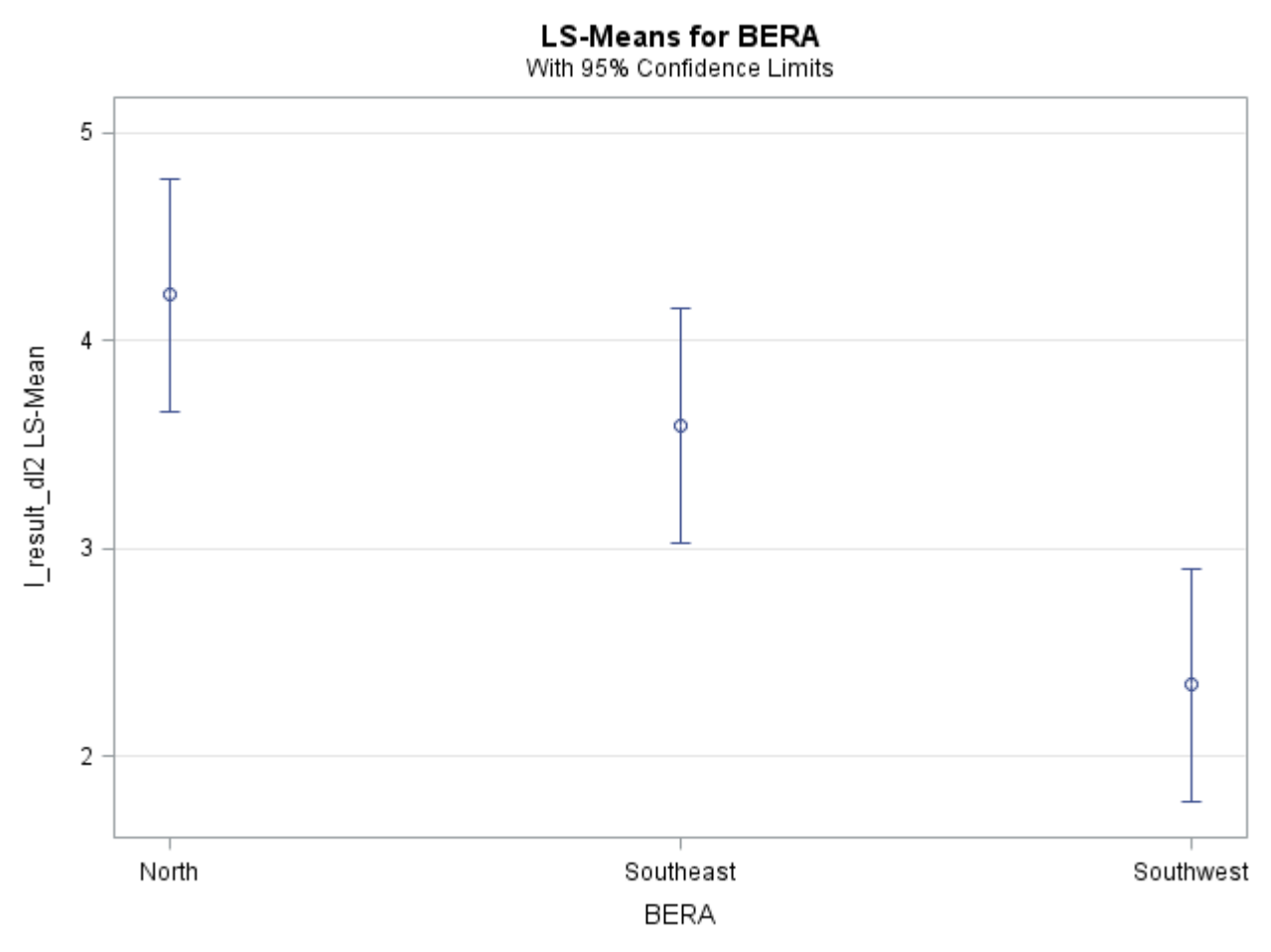
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.21939008	1
Southeast	3.59355026	2
Southwest	2.34468595	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2540	0.0002
2	0.2540		0.0093
3	0.0002	0.0093	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5
4
3
2
North
Southeast
Southwest
BERA

PCBs Total PCBs congener (209 specified)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

PCBs Total PCBs congener (209 specified)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

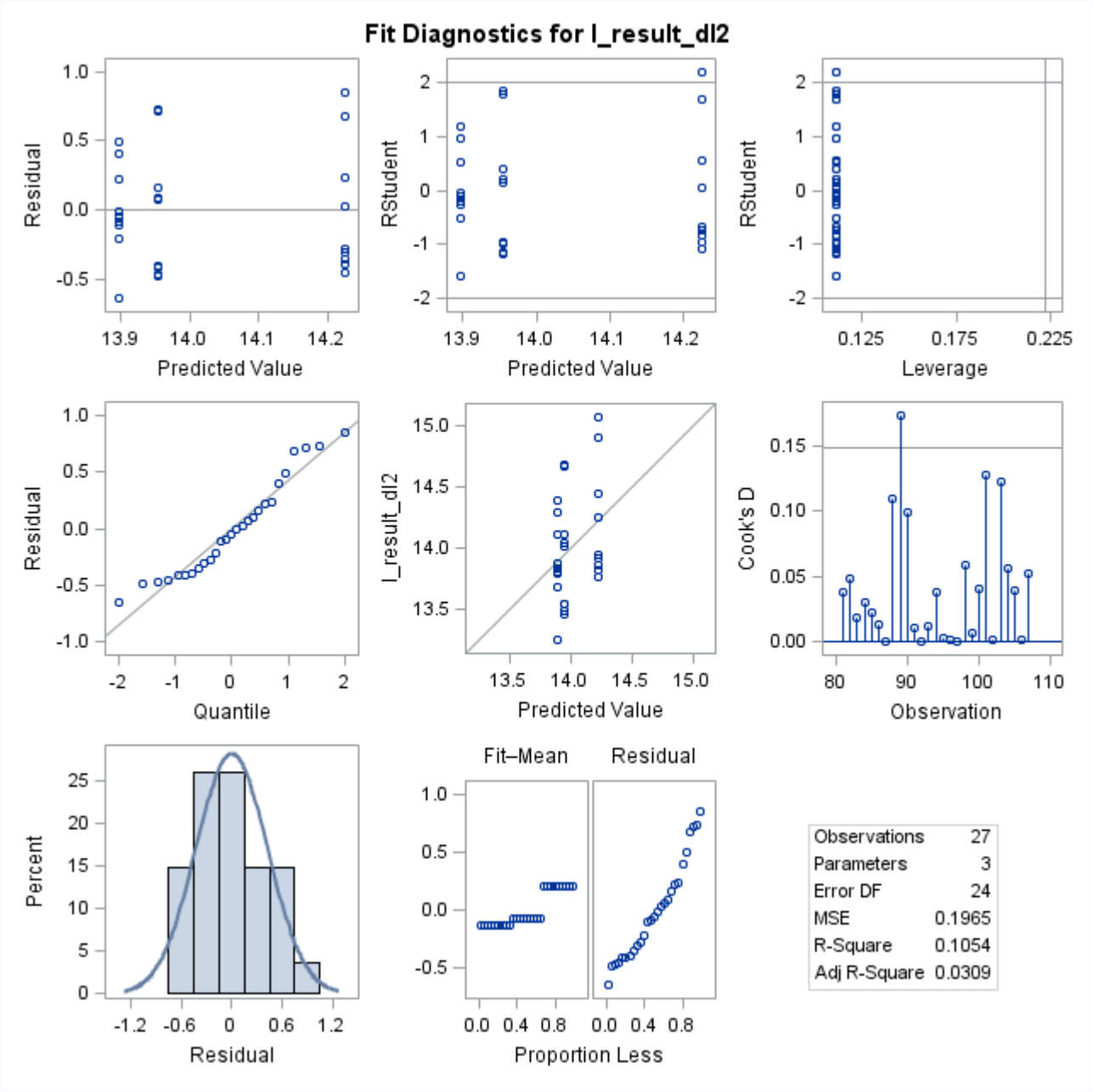
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.55567801	0.27783901	1.41	0.2627
Error	24	4.71634344	0.19651431		
Corrected Total	26	5.27202145			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.105401	3.160667	0.443299	14.02550

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.55567801	0.27783901	1.41	0.2627

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.55567801	0.27783901	1.41	0.2627


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.1965
R-Square 0.1054
Adj R-Square 0.0309

PCBs Total PCBs congener (209 specified)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0670	0.0335	0.87	0.4303
Error	24	0.9208	0.0384		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.35	0.2872
Error	15.5053		

PCBs Total PCBs congener (209 specified)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	9	14.2255849	0.48731787
Southeast	9	13.8963742	0.34242119
Southwest	9	13.9545452	0.48457399

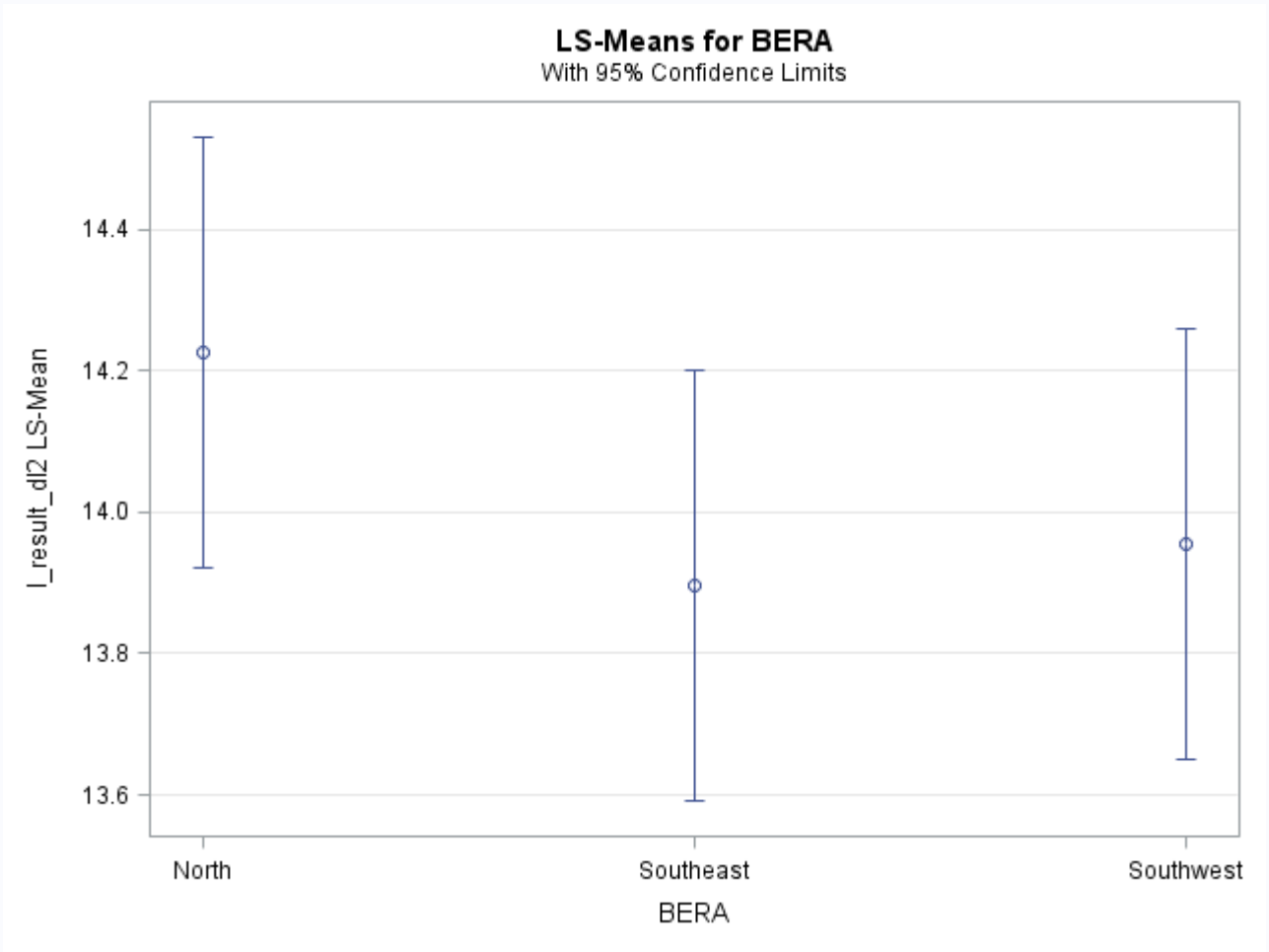
PCBs Total PCBs congener (209 specified)
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	14.2255849	1
Southeast	13.8963742	2
Southwest	13.9545452	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2754	0.4105
2	0.2754		0.9583
3	0.4105	0.9583	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
14.4
14.2
14.0
13.8
13.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Dieldrin
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

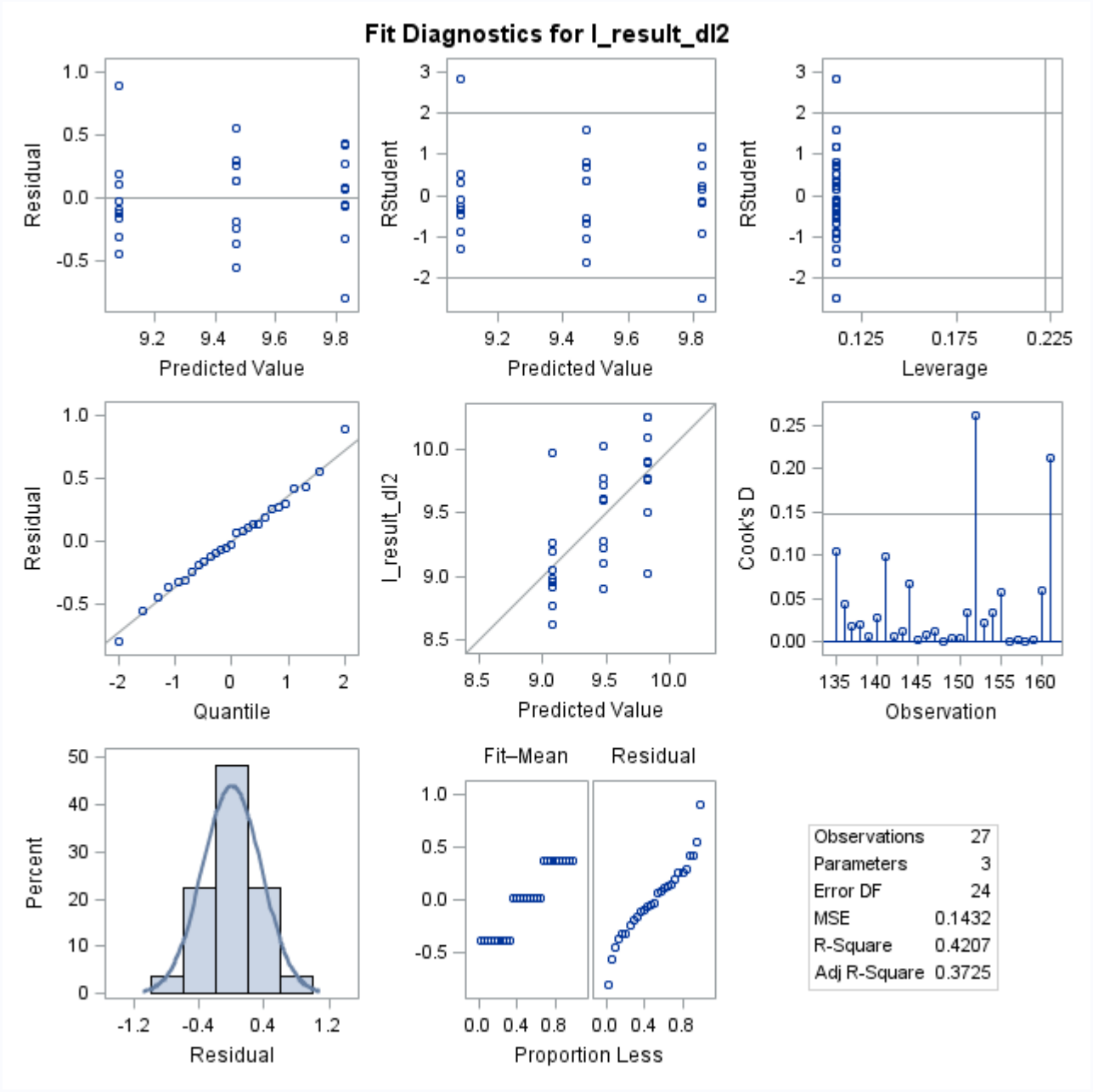
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.49642336	1.24821168	8.72	0.0014
Error	24	3.43696241	0.14320677		
Corrected Total	26	5.93338577			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.420742	4.000167	0.378427	9.460273

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.49642336	1.24821168	8.72	0.0014

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.49642336	1.24821168	8.72	0.0014


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.1432
R-Square 0.4207
Adj R-Square 0.3725

Pesticides Dieldrin
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00209	0.00105	0.03	0.9748
Error	24	0.9818	0.0409		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	7.98	0.0040
Error	15.9789		

Pesticides Dieldrin

NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	9.47159963	0.35945793
Southeast	**9**	9.08232759	0.38808602
Southwest	**9**	9.82689180	0.38703946

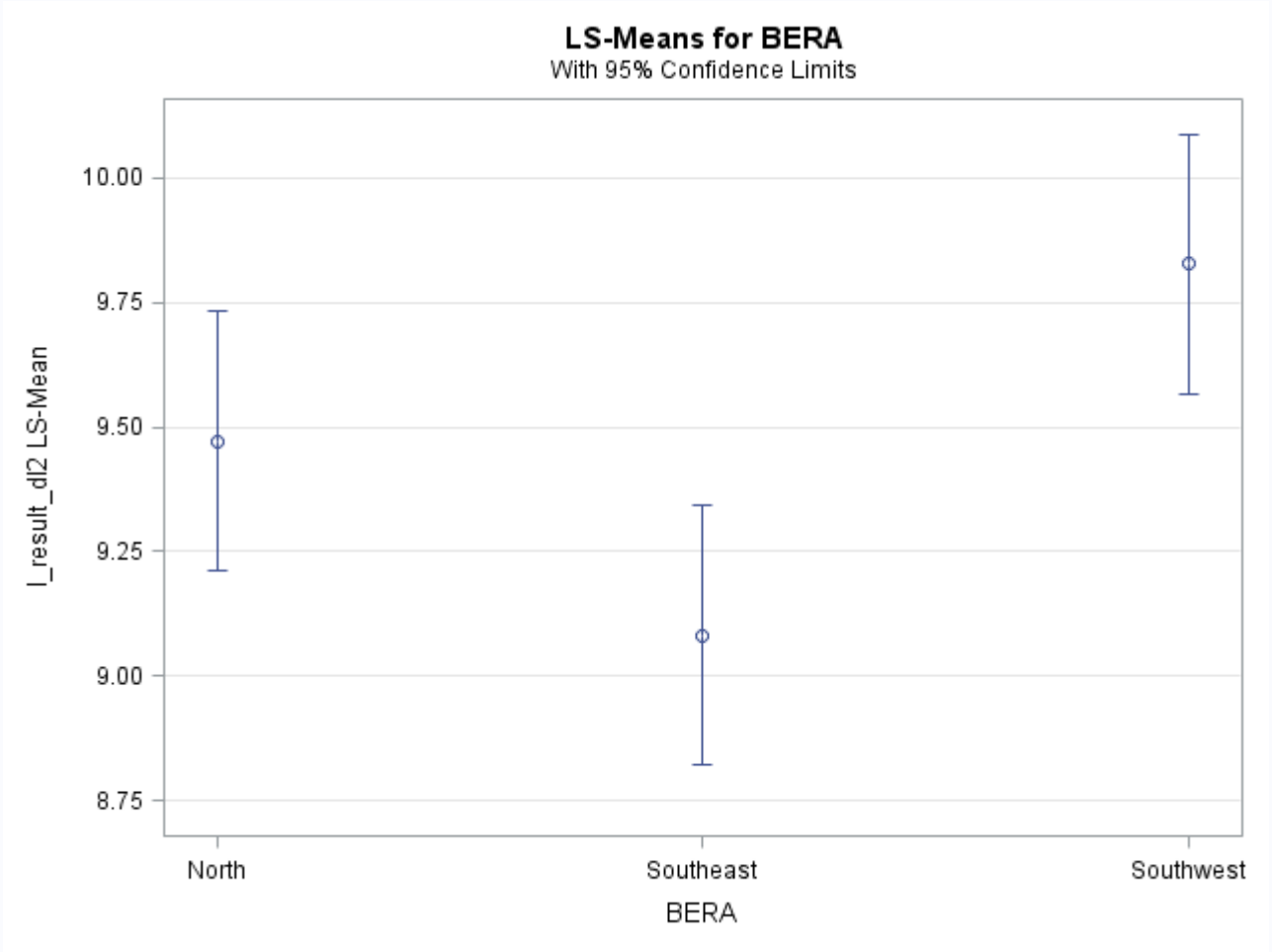
Pesticides Dieldrin
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.47159963	1
Southeast	9.08232759	2
Southwest	9.82689180	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0948	0.1360
2	0.0948		0.0010
3	0.1360	0.0010	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.00
9.75
9.50
9.25
9.00
8.75
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Heptachlor epoxide
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

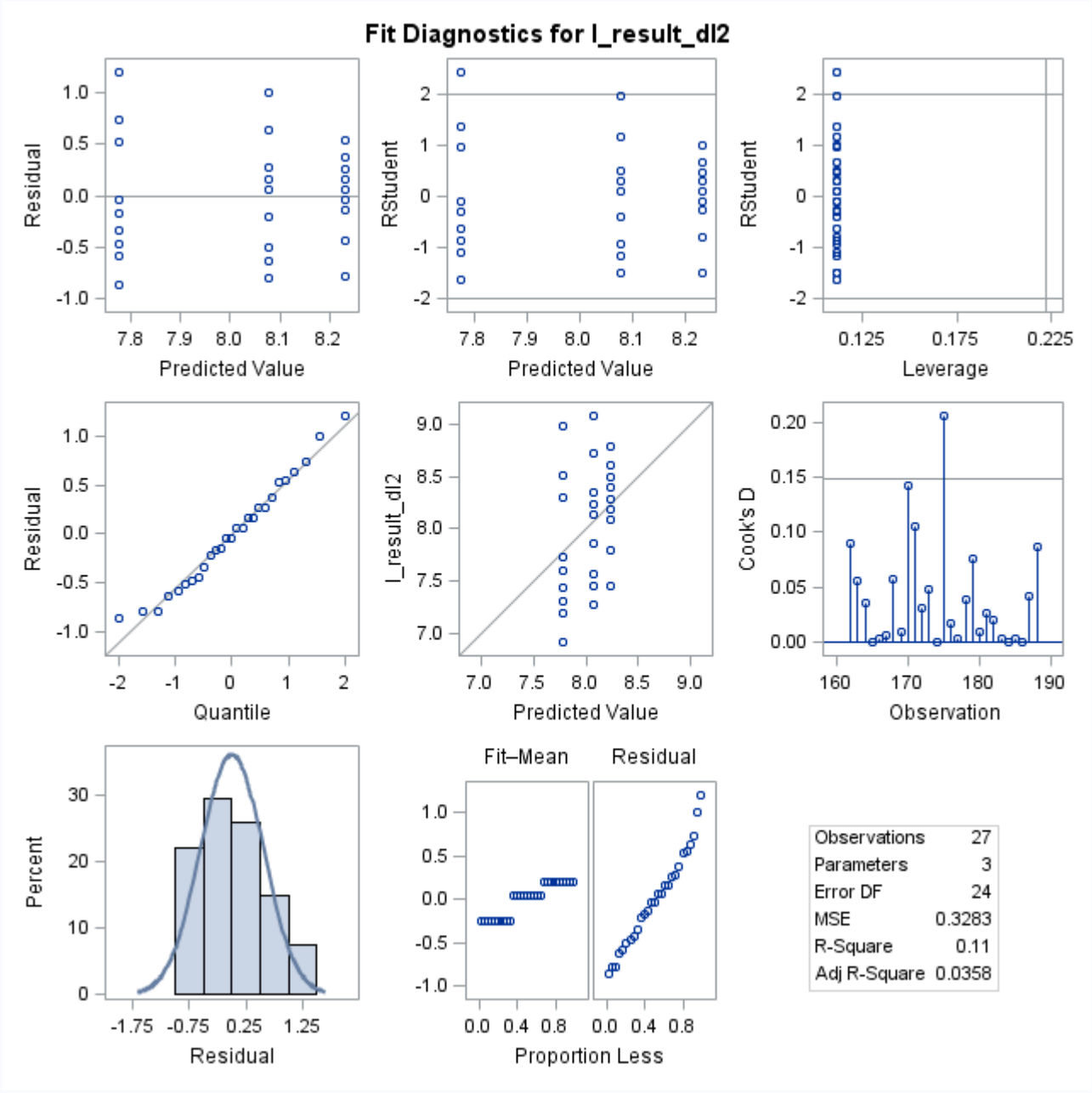
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.97335519	0.48667759	1.48	0.2471
Error	24	7.87914545	0.32829773		
Corrected Total	26	8.85250064			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.109953	7.137464	0.572973	8.027679

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.97335519	0.48667759	1.48	0.2471

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.97335519	0.48667759	1.48	0.2471


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.3283
R-Square 0.11
Adj R-Square 0.0358

Pesticides Heptachlor epoxide
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.3090	0.1545	1.30	0.2912
Error	24	2.8536	0.1189		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.44	0.2682
Error	15.2418		

Pesticides Heptachlor epoxide
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	8.07672221	0.59430516
Southeast	**9**	7.77452870	0.67946001
Southwest	**9**	8.23178747	0.41234530

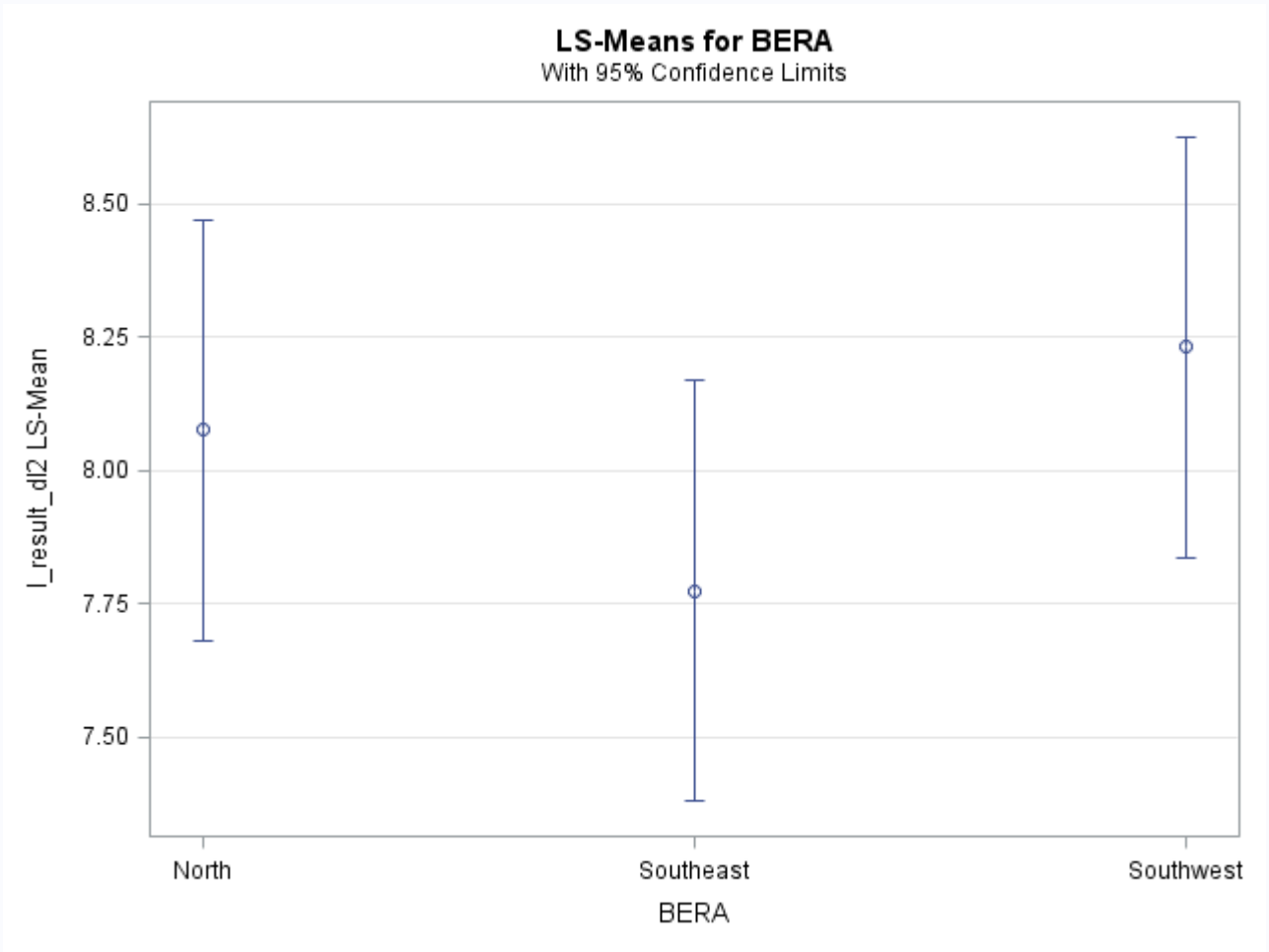
Pesticides Heptachlor epoxide
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.07672221	1
Southeast	7.77452870	2
Southwest	8.23178747	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5121	0.8351
2	0.5121		0.2284
3	0.8351	0.2284	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
8.50
8.25
8.00
7.75
7.50
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Hexachlorobenzene
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

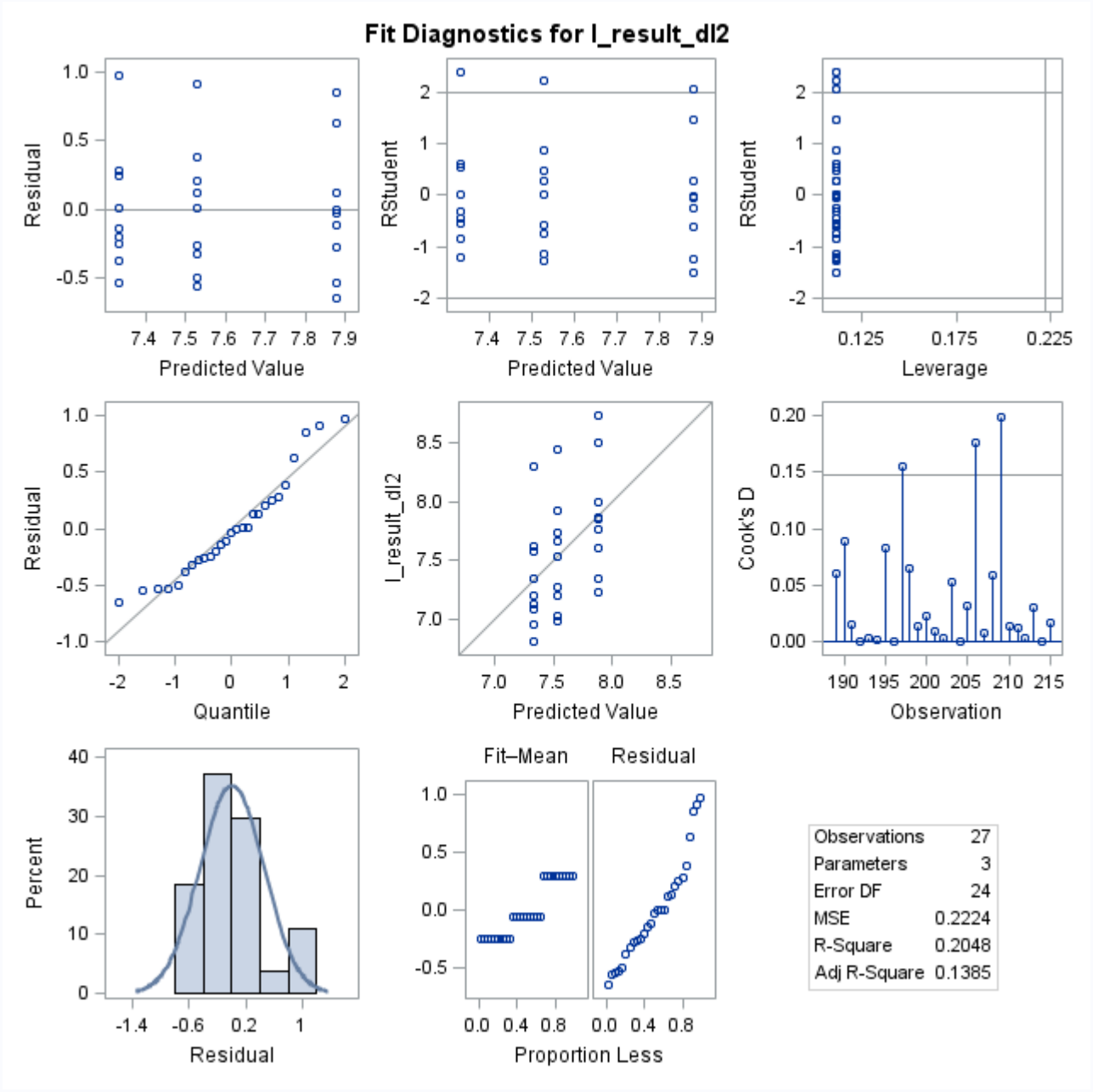
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.37440764	0.68720382	3.09	0.0640
Error	24	5.33734560	0.22238940		
Corrected Total	26	6.71175325			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.204776	6.221792	0.471582	7.579517

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.37440764	0.68720382	3.09	0.0640

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.37440764	0.68720382	3.09	0.0640


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.2224
R-Square 0.2048
Adj R-Square 0.1385

Pesticides Hexachlorobenzene
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00568	0.00284	0.04	0.9627
Error	24	1.7902	0.0746		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.92	0.0829
Error	15.9784		

Pesticides Hexachlorobenzene
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	7.87790146	0.49253583
Southeast	**9**	7.52820759	0.47111821
Southwest	**9**	7.33244207	0.45013807

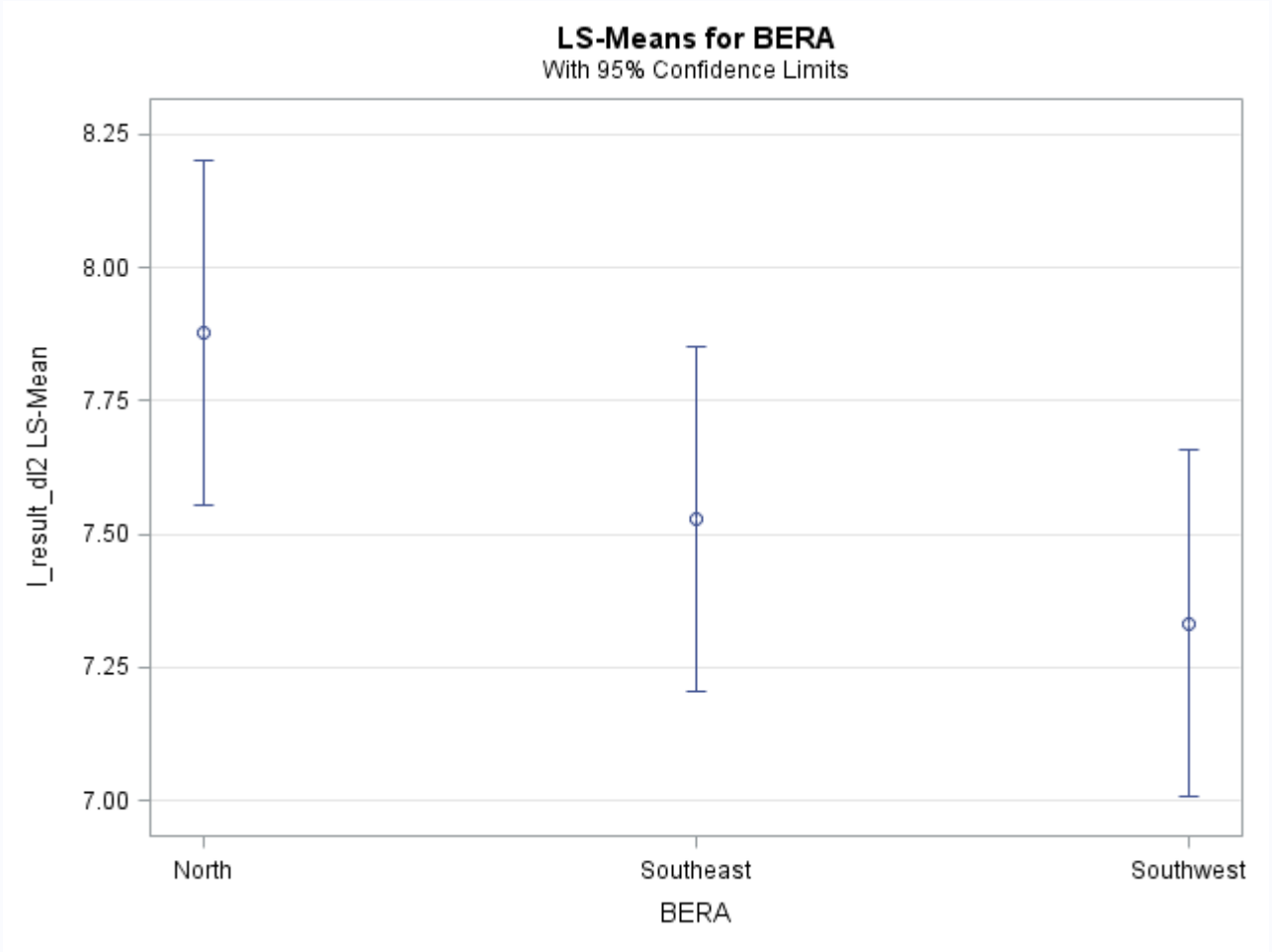
Pesticides Hexachlorobenzene
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.87790146	1
Southeast	7.52820759	2
Southwest	7.33244207	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2764	0.0548
2	0.2764		0.6574
3	0.0548	0.6574	


LS-Means for BERA
With 95% Confidence Limits
8.25
8.00
7.75
7.50
7.25
7.00
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

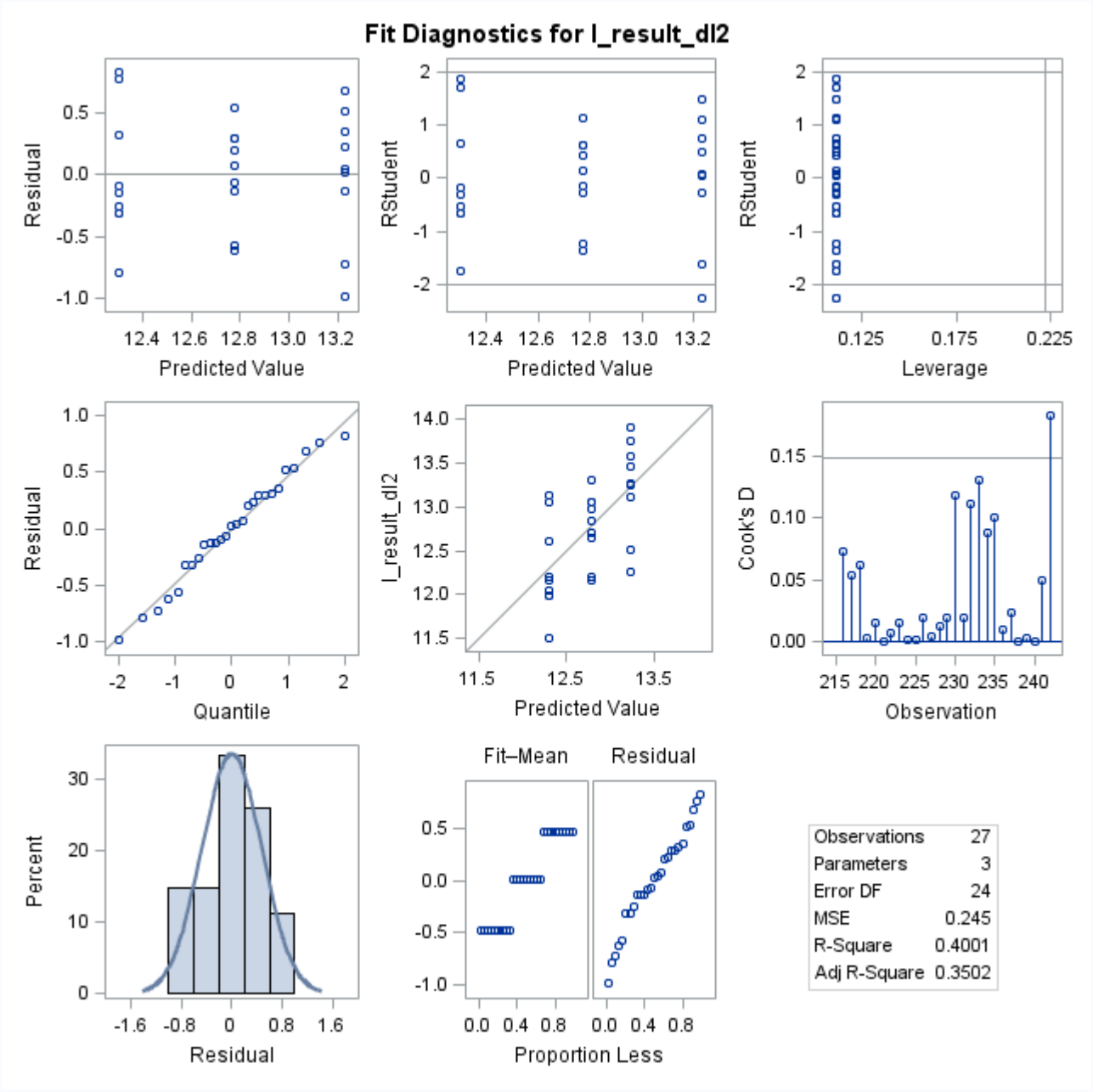
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.92249283	1.96124641	8.00	0.0022
Error	24	5.88010607	0.24500442		
Corrected Total	26	9.80259890			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.400148	3.876959	0.494979	12.76720

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.92249283	1.96124641	8.00	0.0022

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.92249283	1.96124641	8.00	0.0022


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.245
R-Square 0.4001
Adj R-Square 0.3502

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0928	0.0464	0.67	0.5228
Error	24	1.6704	0.0696		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	6.46	0.0091
Error	15.5747		

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	9	12.7730173	0.39012112
Southeast	9	12.2975087	0.53243001
Southwest	9	13.2310845	0.54711704

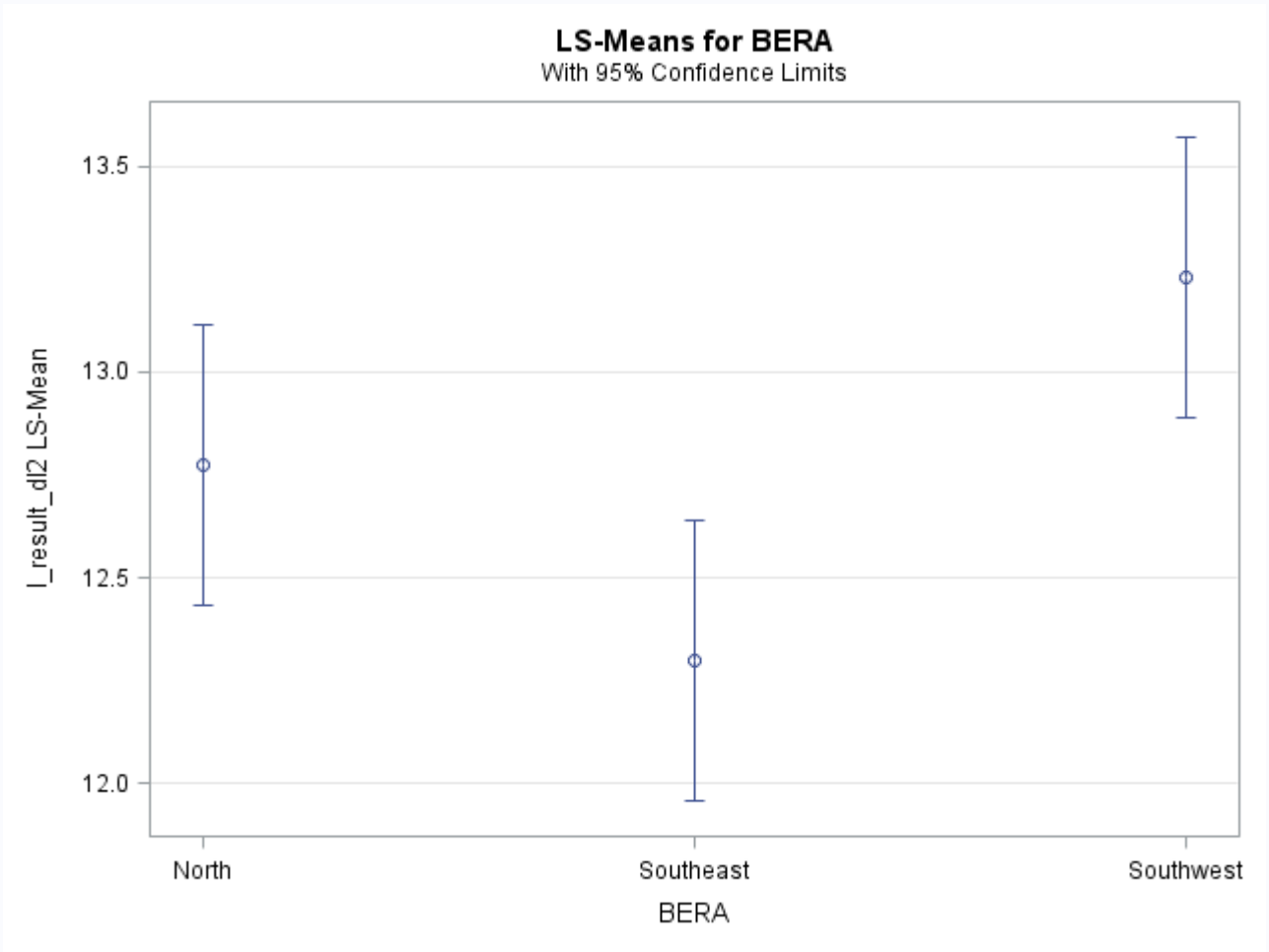
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.7730173	1
Southeast	12.2975087	2
Southwest	13.2310845	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1248	0.1432
2	0.1248		0.0015
3	0.1432	0.0015	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.5
13.0
12.5
12.0
North
Southeast
Southwest
BERA

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

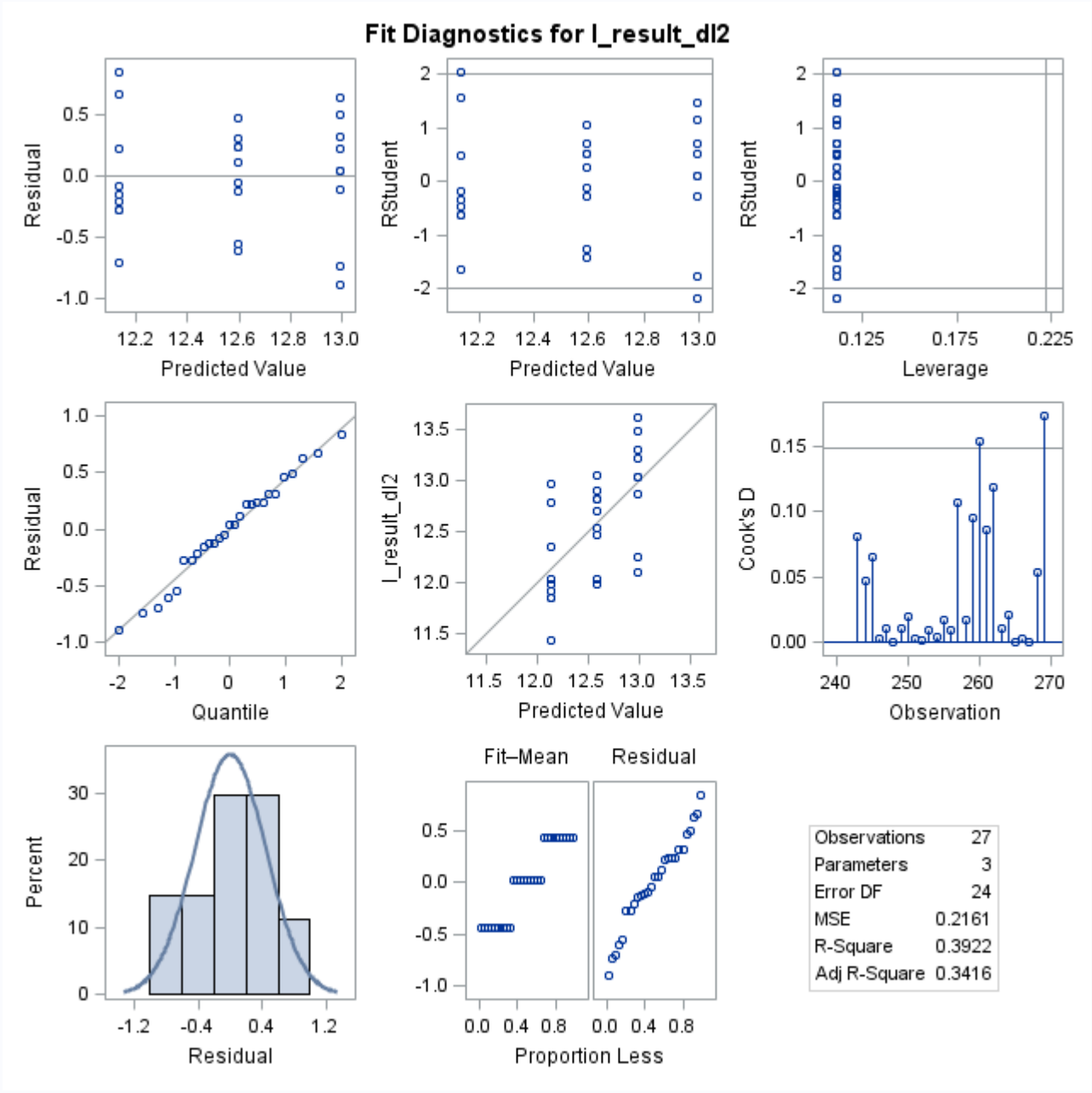
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.34752975	1.67376487	7.74	0.0025
Error	24	5.18724538	0.21613522		
Corrected Total	26	8.53477513			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.392222	3.697634	0.464903	12.57300

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.34752975	1.67376487	7.74	0.0025

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.34752975	1.67376487	7.74	0.0025


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.2161
R-Square 0.3922
Adj R-Square 0.3416

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0645	0.0322	0.58	0.5699
Error	24	1.3436	0.0560		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	6.36	0.0095
Error	15.6436		

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	12.5940597	0.37443456
Southeast	**9**	12.1316052	0.48957334
Southwest	**9**	12.9933271	0.51819145

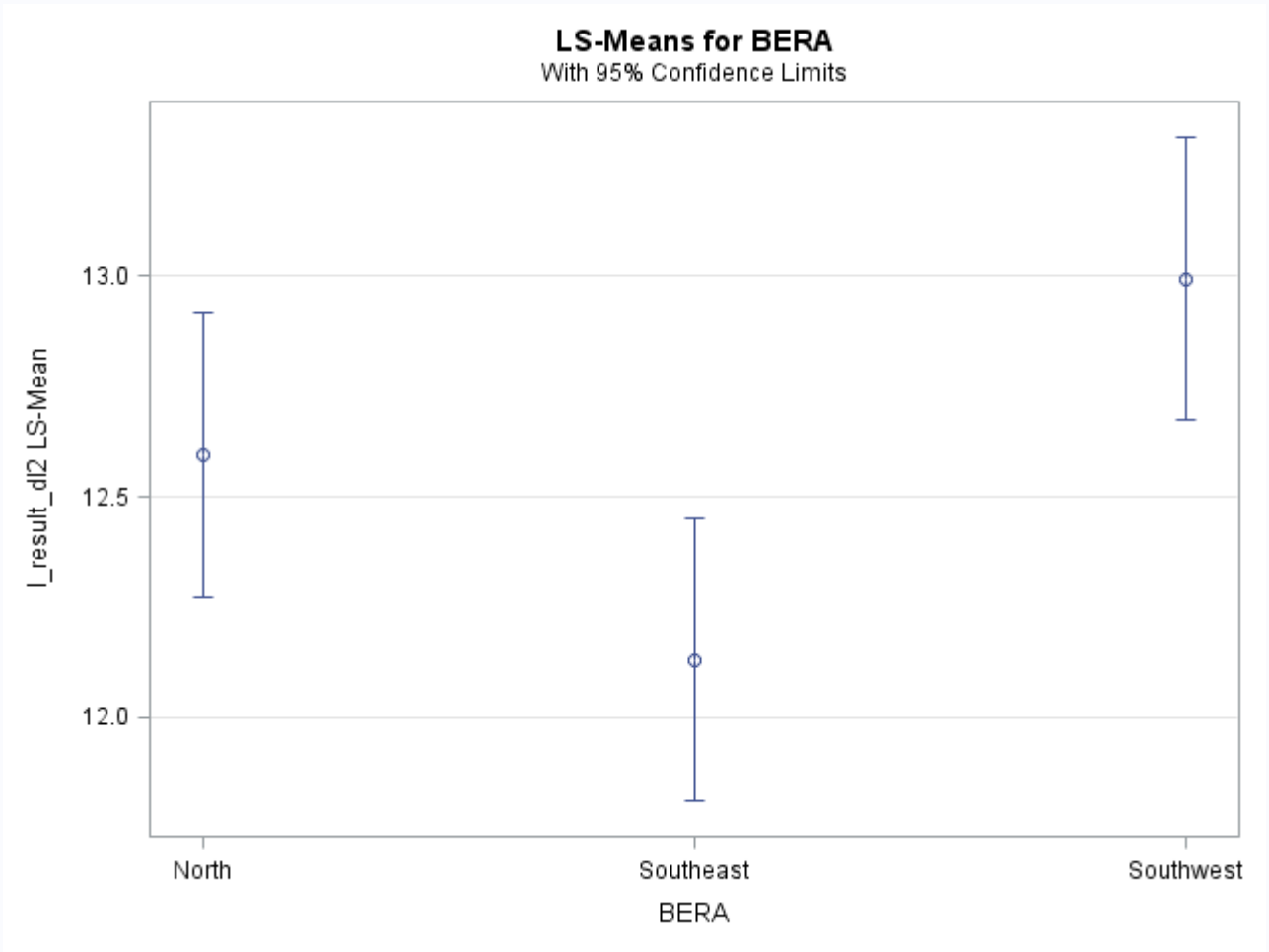
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.5940597	1
Southeast	12.1316052	2
Southwest	12.9933271	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1089	0.1840
2	0.1089		0.0017
3	0.1840	0.0017	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.5
12.0
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Total alpha + gamma chlordane
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

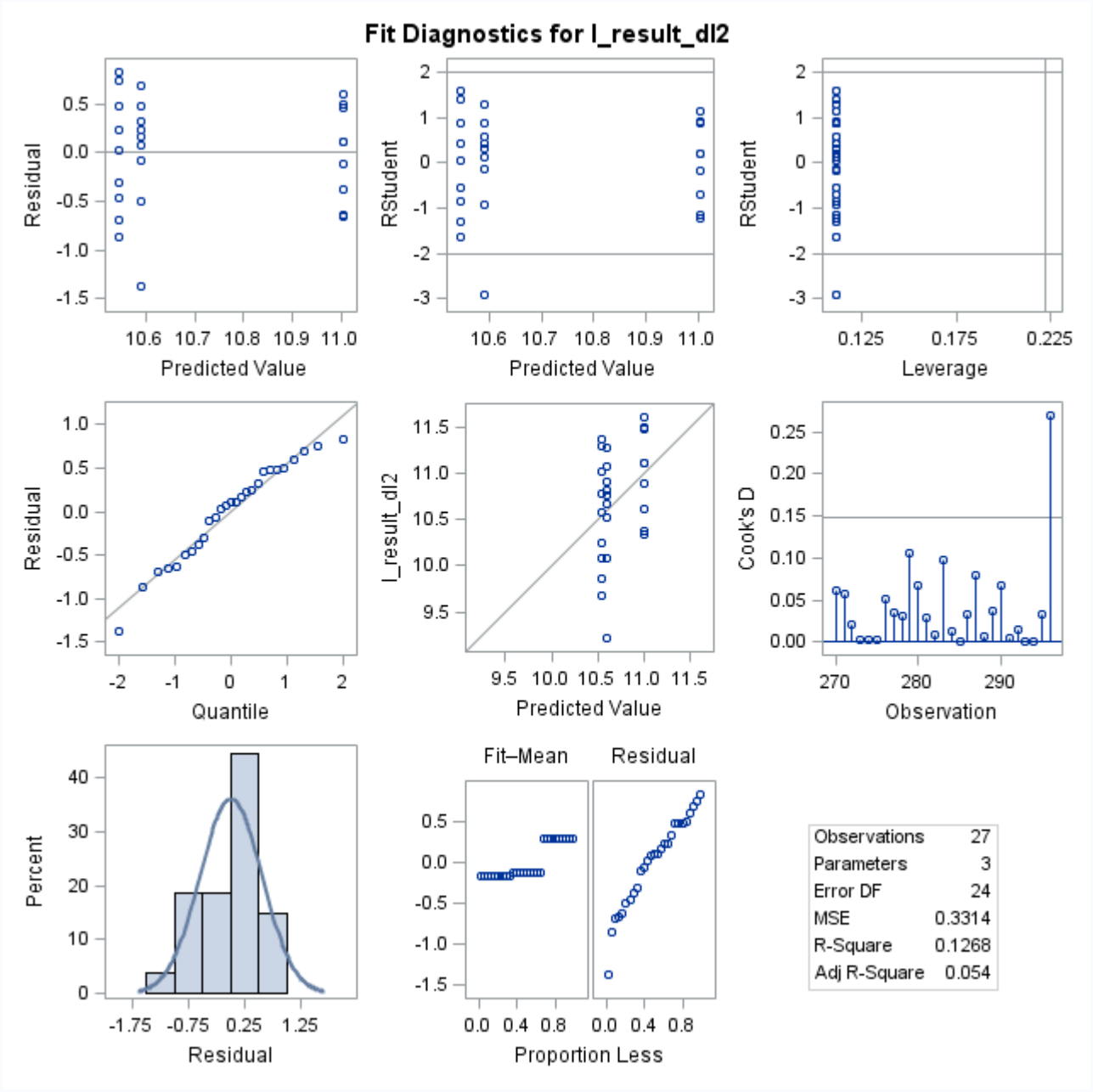
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.15480662	0.57740331	1.74	0.1965
Error	24	7.95337456	0.33139061		
Corrected Total	26	9.10818118			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.126788	5.373589	0.575665	10.71287

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.15480662	0.57740331	1.74	0.1965

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.15480662	0.57740331	1.74	0.1965


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.3314
R-Square 0.1268
Adj R-Square 0.054

Pesticides Total alpha + gamma chlordane
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1081	0.0541	0.34	0.7157
Error	24	3.8249	0.1594		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.97	0.1728
Error	15.7474		

Pesticides Total alpha + gamma chlordane
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	11.0040386	0.48032062
Southeast	**9**	10.5434061	0.61772046
Southwest	**9**	10.5911544	0.61796873

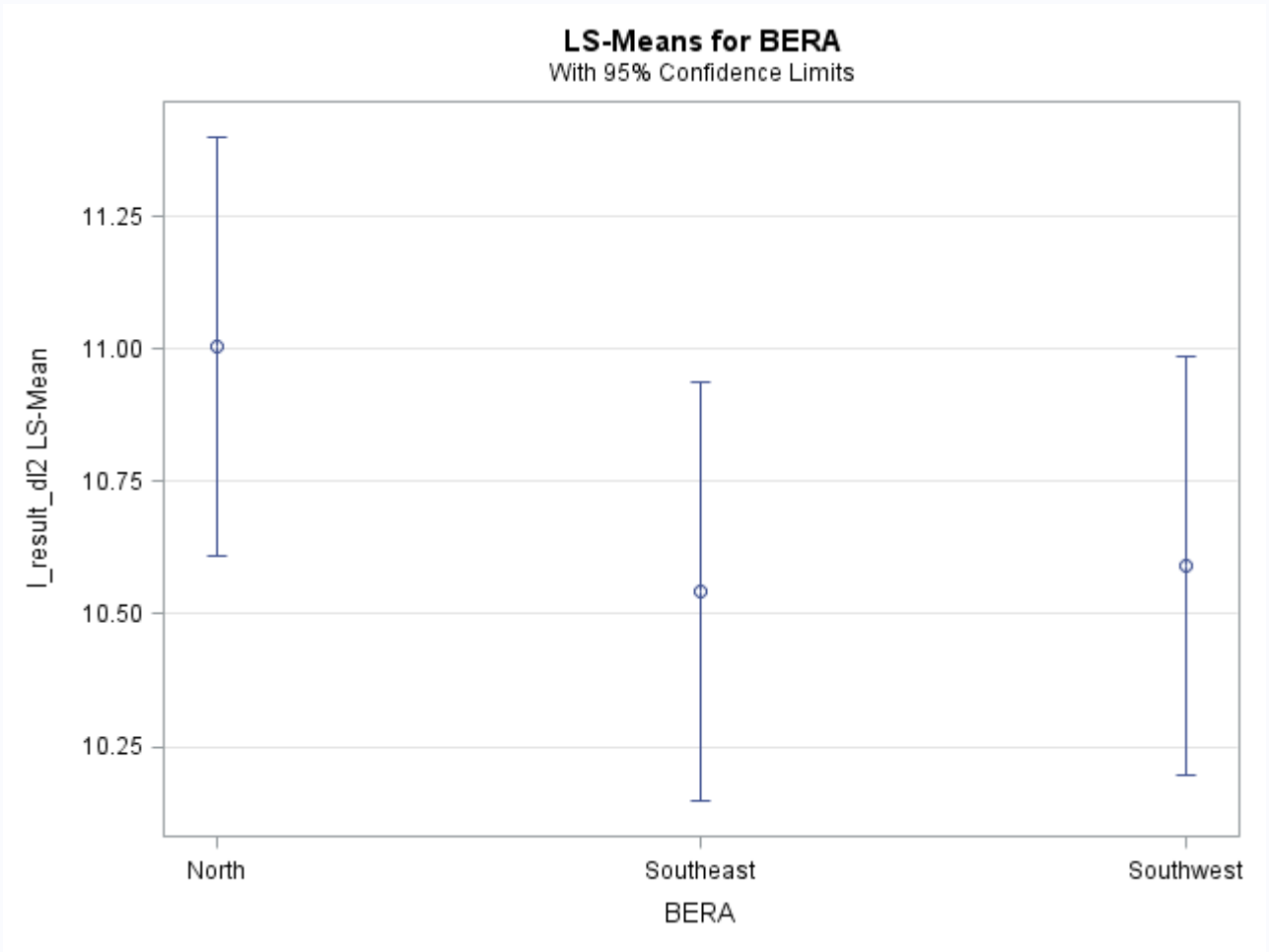
Pesticides Total alpha + gamma chlordane
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.0040386	1
Southeast	10.5434061	2
Southwest	10.5911544	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2267	0.2989
2	0.2267		0.9831
3	0.2989	0.9831	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
11.25
11.00
10.75
10.50
10.25
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 26

Number of Observations Used 26

Pesticides alpha-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

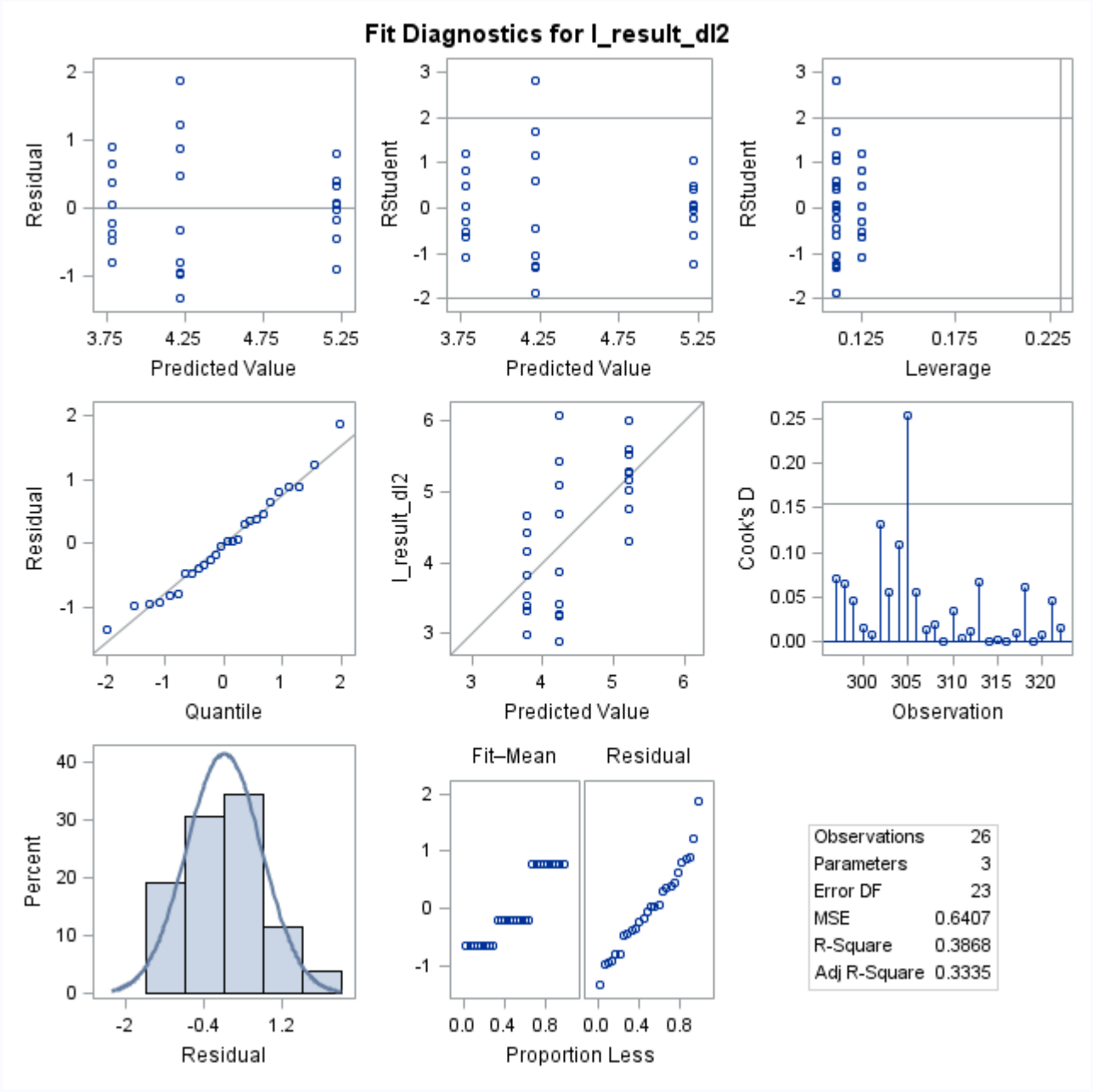
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	9.29433725	4.64716862	7.25	0.0036
Error	23	14.73550268	0.64067403		
Corrected Total	25	24.02983992			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.386783	18.05267	0.800421	4.433810

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	9.29433725	4.64716862	7.25	0.0036

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	9.29433725	4.64716862	7.25	0.0036


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 26
Parameters 3
Error DF 23
MSE 0.6407
R-Square 0.3868
Adj R-Square 0.3335

Pesticides alpha-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	4.6989	2.3495	5.58	0.0105
Error	23	9.6755	0.4207		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	14.45	0.0004
Error	14.3046		

Pesticides alpha-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	4.22316336	1.13709216
Southeast	**8**	3.78727382	0.58645954
Southwest	**9**	5.21915613	0.49801235

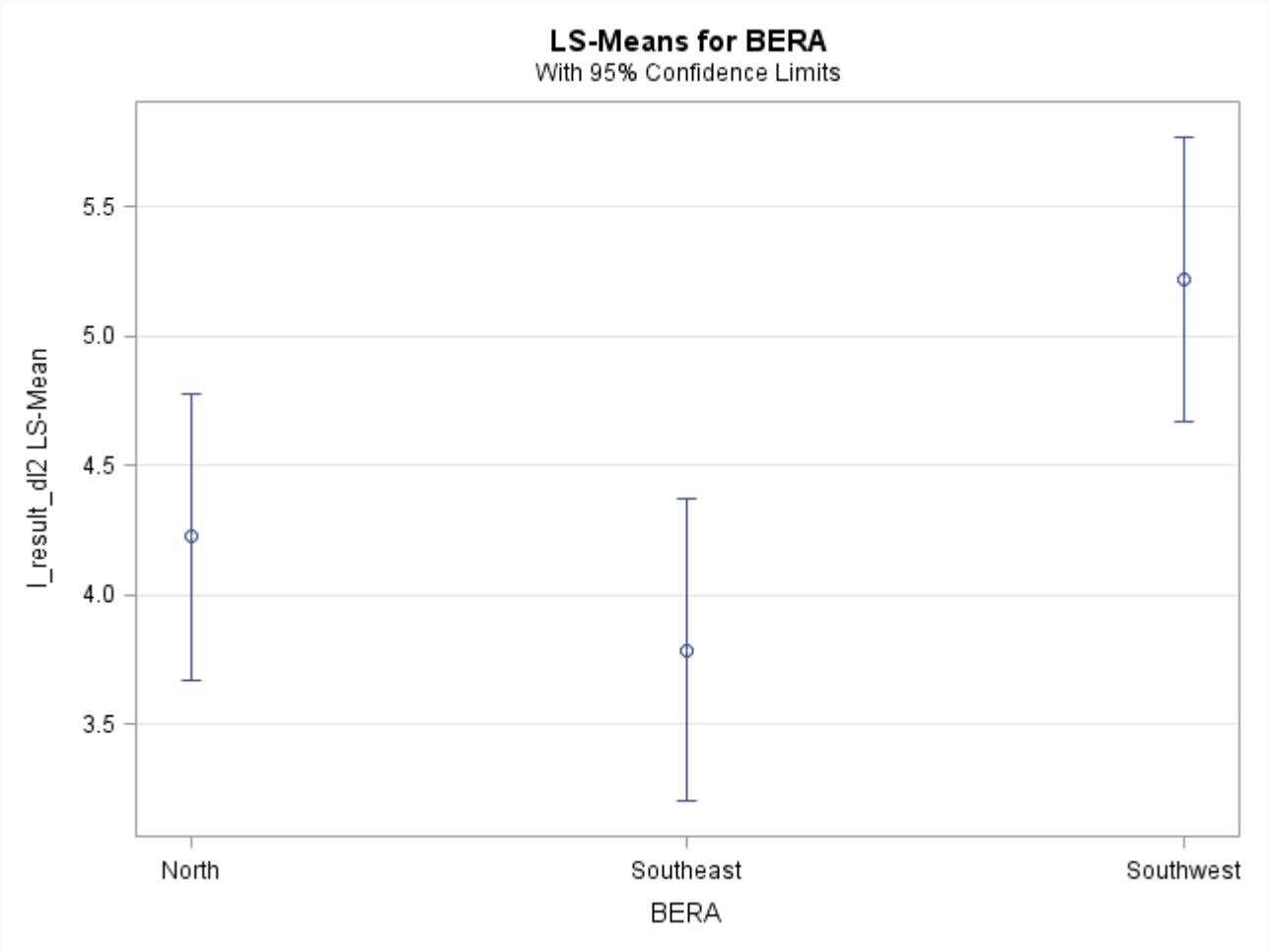
Pesticides alpha-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.22316336	1
Southeast	3.78727382	2
Southwest	5.21915613	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5114	0.0375
2	0.5114		0.0034
3	0.0375	0.0034	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5.5
5.0
4.5
4.0
3.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides beta-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

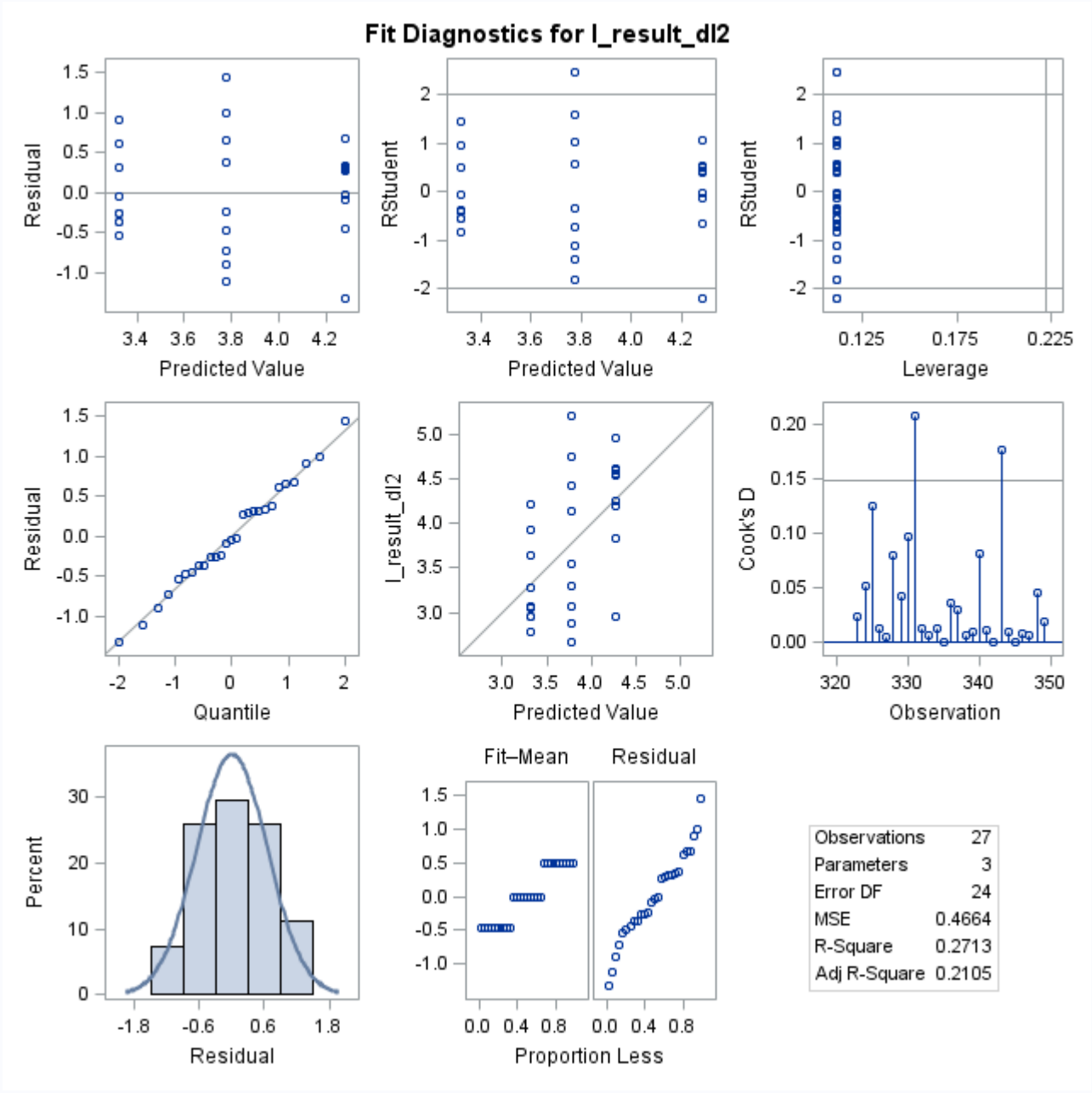
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	4.16648544	2.08324272	4.47	0.0224
Error	24	11.19360774	0.46640032		
Corrected Total	26	15.36009318			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.271254	18.00576	0.682935	3.792871

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	4.16648544	2.08324272	4.47	0.0224

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	4.16648544	2.08324272	4.47	0.0224


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.4664
R-Square 0.2713
Adj R-Square 0.2105

Pesticides beta-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.2720	0.6360	2.42	0.1106
Error	24	6.3153	0.2631		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	6.75	0.0079
Error	15.3074		

Pesticides beta-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	3.77639009	0.89816502
Southeast	**9**	3.32020830	0.49540352
Southwest	**9**	4.28201431	0.58913150

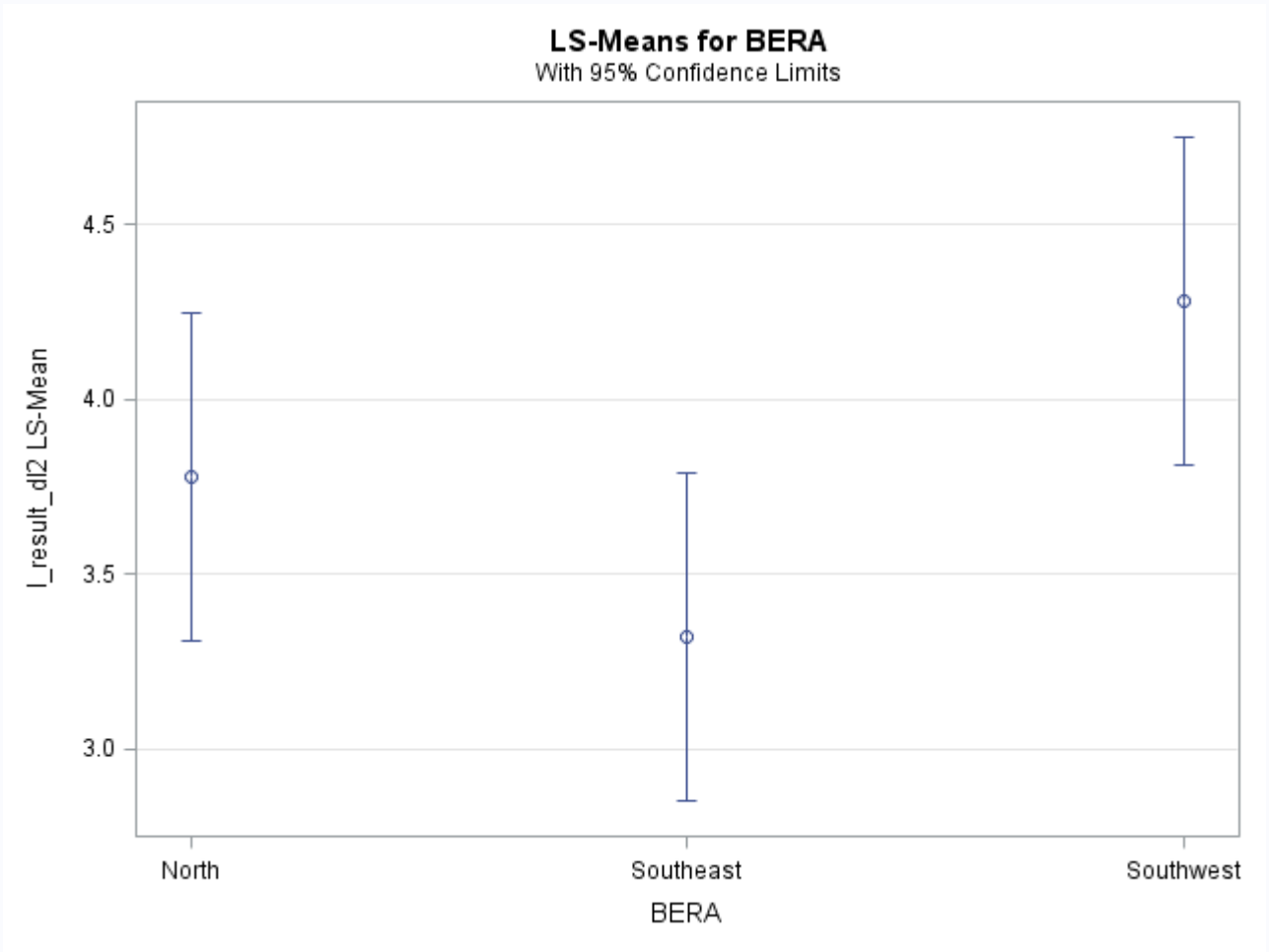
Pesticides beta-BHC
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.77639009	1
Southeast	3.32020830	2
Southwest	4.28201431	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3483	0.2774
2	0.3483		0.0169
3	0.2774	0.0169	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.5
4.0
3.5
3.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides cis-Nonachlor
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

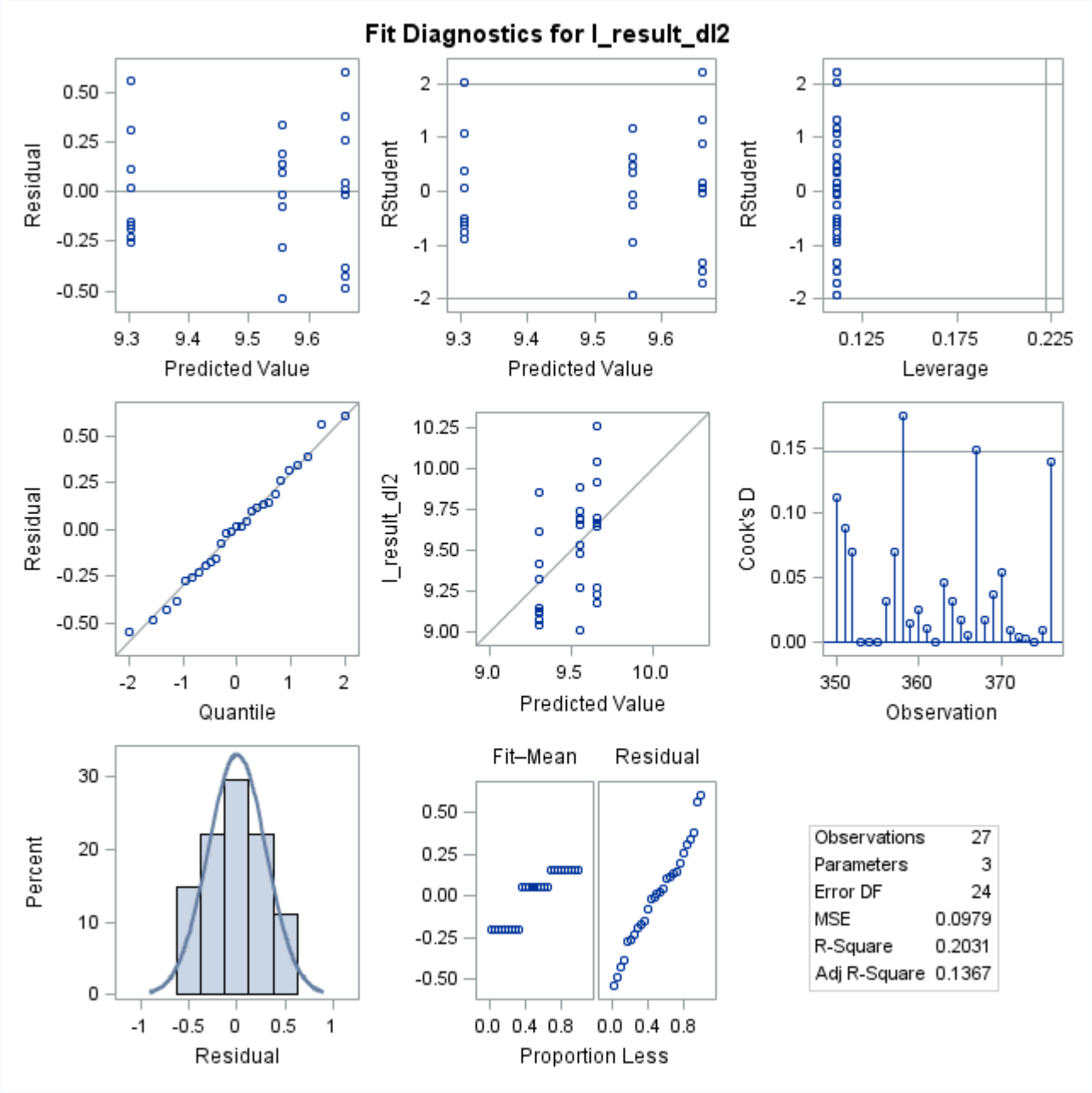
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.59896639	0.29948319	3.06	0.0656
Error	24	2.34978105	0.09790754		
Corrected Total	26	2.94874743			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.203126	3.291363	0.312902	9.506754

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.59896639	0.29948319	3.06	0.0656

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.59896639	0.29948319	3.06	0.0656


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.0979
R-Square 0.2031
Adj R-Square 0.1367

Pesticides cis-Nonachlor
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0222	0.0111	1.00	0.3823
Error	24	0.2660	0.0111		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	3.00	0.0787
Error	15.7124		

Pesticides cis-Nonachlor
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	9.65976392	0.37861587
Southeast	**9**	9.30488182	0.28026678
Southwest	**9**	9.55561511	0.26799849

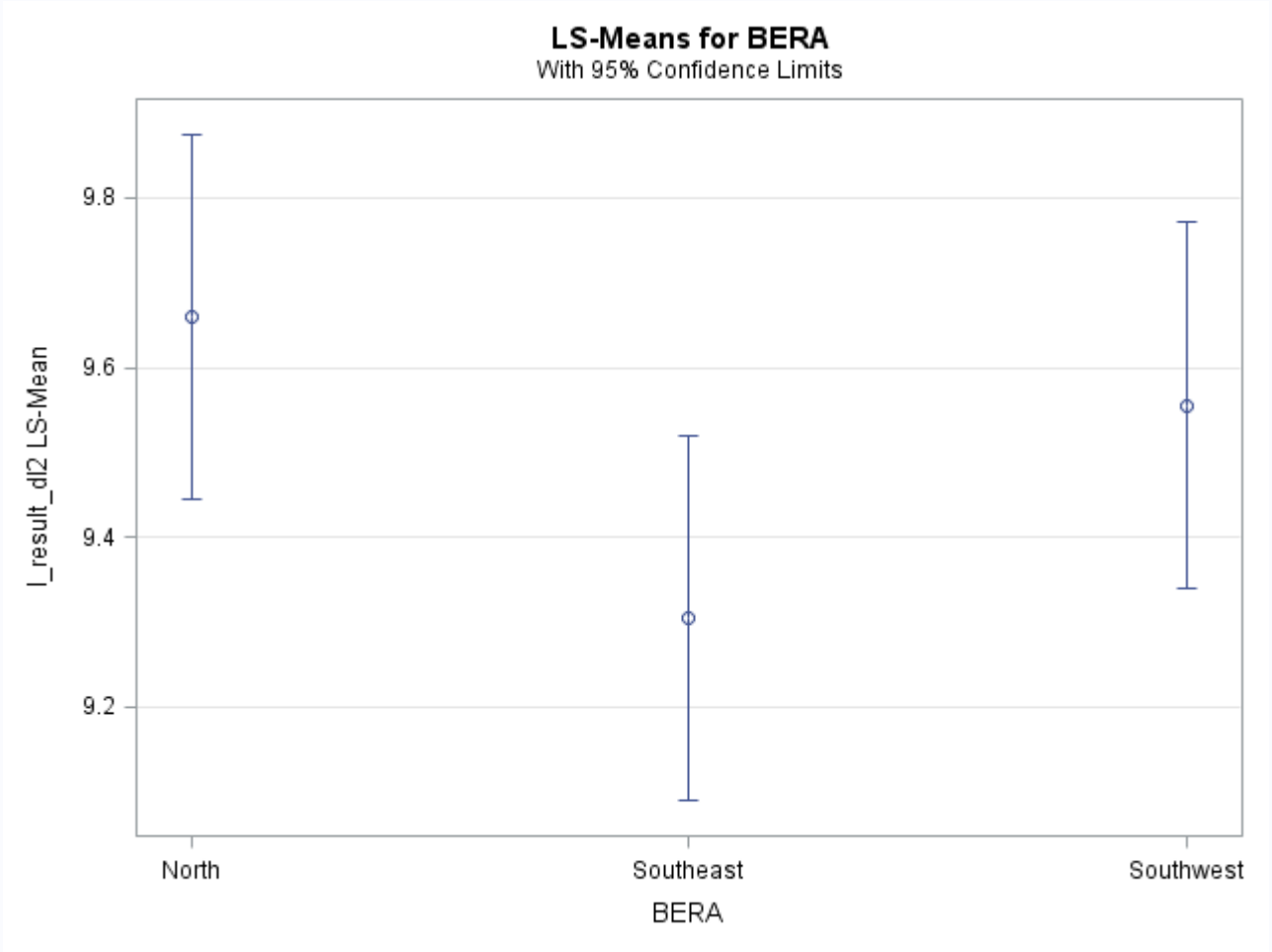
Pesticides cis-Nonachlor
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.65976392	1
Southeast	9.30488182	2
Southwest	9.55561511	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0605	0.7623
2	0.0605		0.2258
3	0.7623	0.2258	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.8
9.6
9.4
9.2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	27
Number of Observations Used	27

PAHs Total LMW PAHs
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

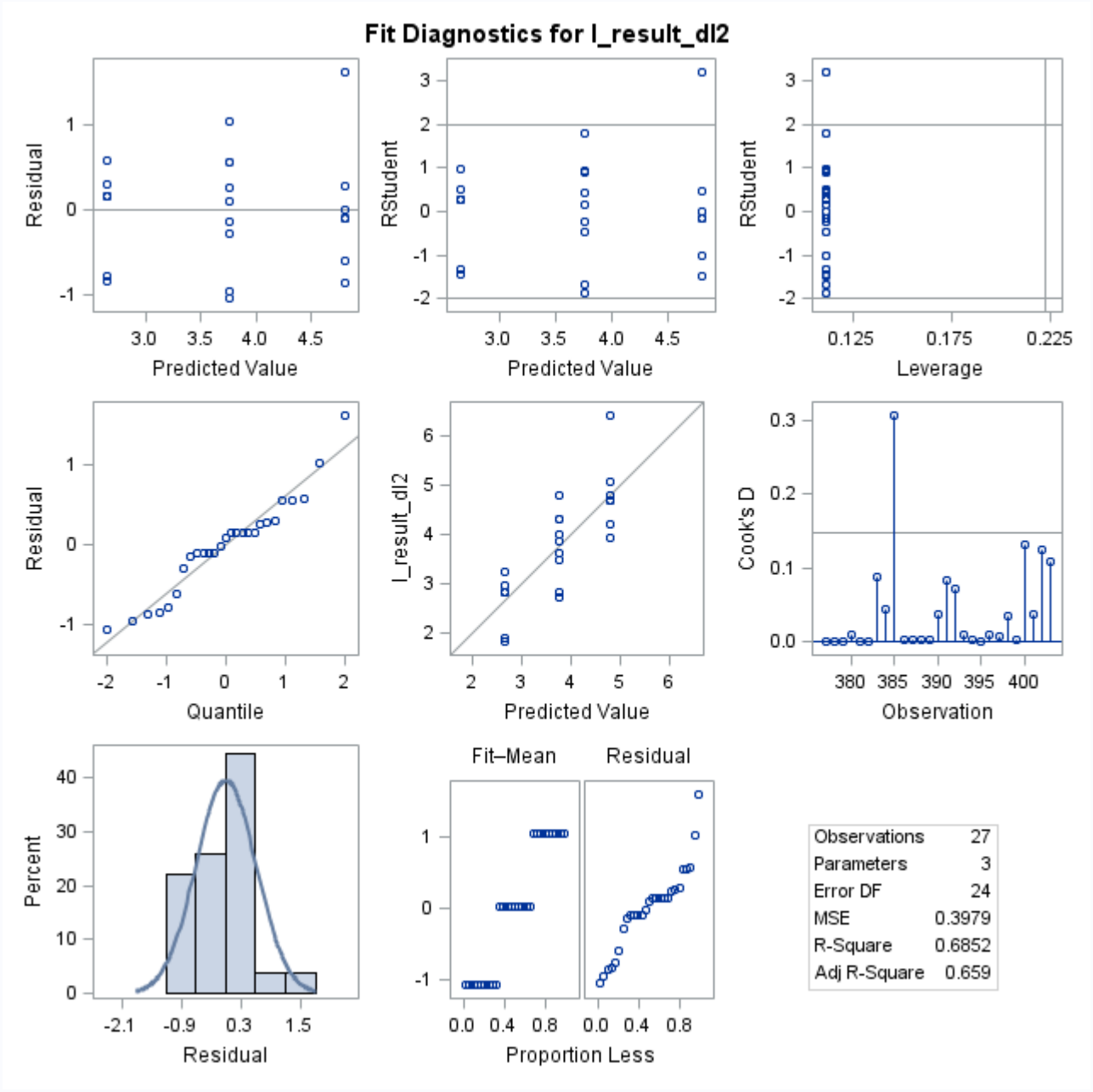
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	20.78610228	10.39305114	26.12	<.0001
Error	24	9.54935099	0.39788962		
Corrected Total	26	30.33545328			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.685208	16.87688	0.630785	3.737568

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	20.78610228	10.39305114	26.12	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	20.78610228	10.39305114	26.12	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.3979
R-Square 0.6852
Adj R-Square 0.659

PAHs Total LMW PAHs
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2998	0.1499	0.44	0.6492
Error	24	8.1778	0.3407		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	29.18	<.0001
Error	15.4498		

PAHs Total LMW PAHs
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	4.79994737	0.69327047
Southeast	**9**	2.65113418	0.47983970
Southwest	**9**	3.76162113	0.69483724

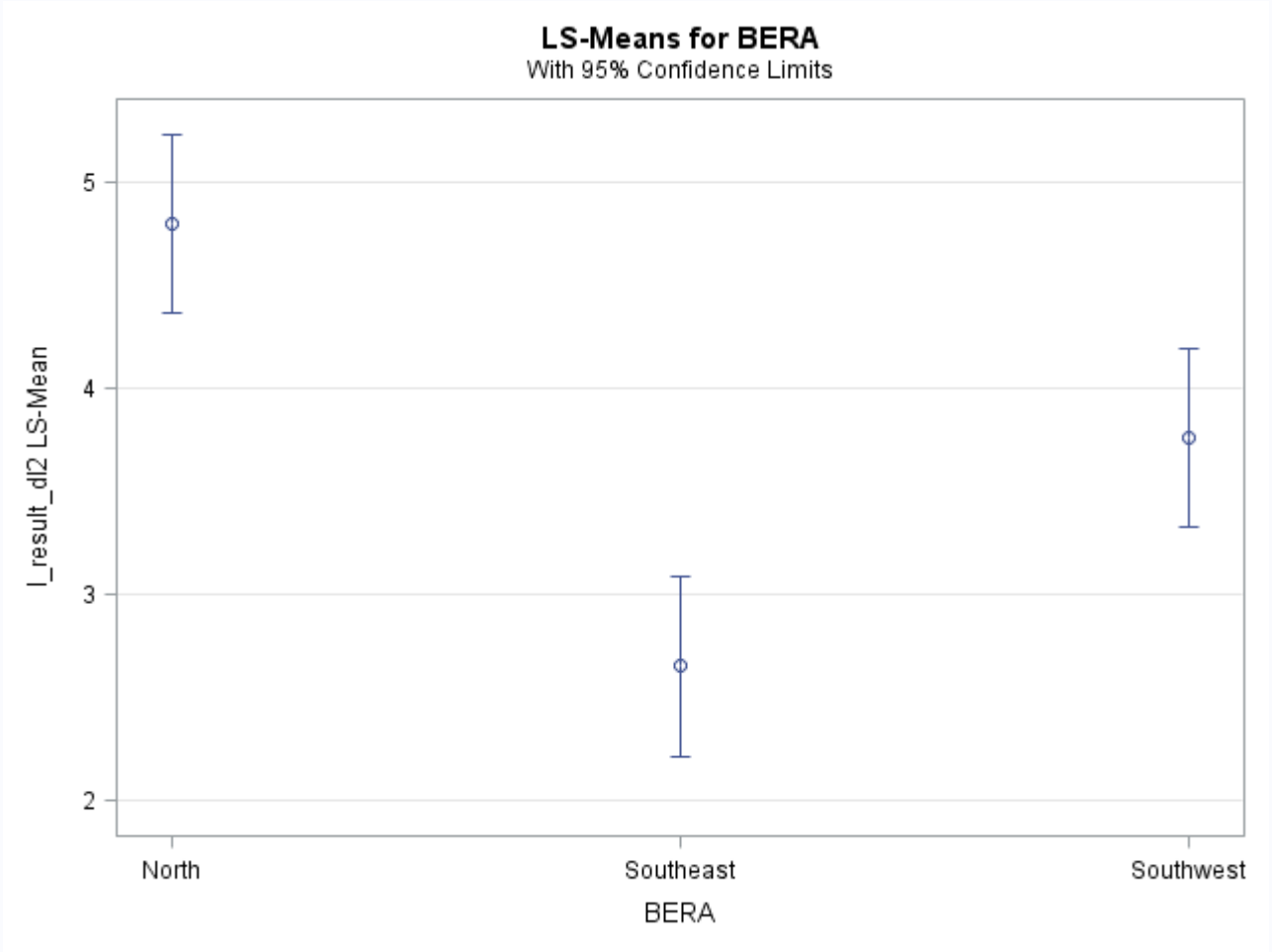
PAHs Total LMW PAHs
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.79994737	1
Southeast	2.65113418	2
Southwest	3.76162113	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		<.0001	0.0051
2	<.0001		0.0028
3	0.0051	0.0028	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5
4
3
2
North
Southeast
Southwest
BERA

PAHs Total PAH
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

PAHs Total PAH
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

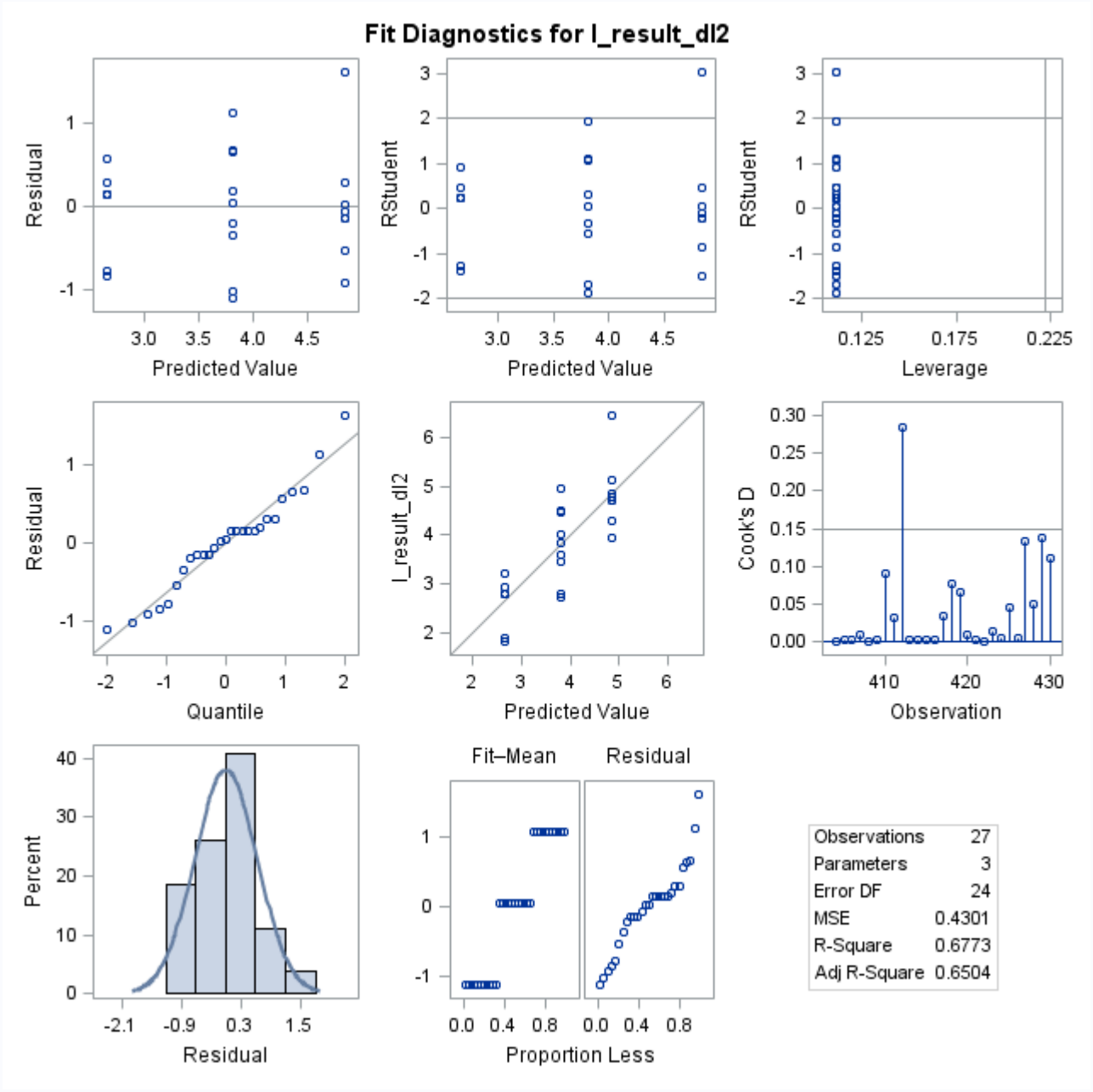
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	21.66763422	10.83381711	25.19	<.0001
Error	24	10.32262503	0.43010938		
Corrected Total	26	31.99025925			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.677320	17.39453	0.655827	3.770307

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	21.66763422	10.83381711	25.19	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	21.66763422	10.83381711	25.19	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.4301
R-Square 0.6773
Adj R-Square 0.6504

PAHs Total PAH
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.4544	0.2272	0.62	0.5457
Error	24	8.7769	0.3657		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	30.22	<.0001
Error	15.3025		

PAHs Total PAH

NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	4.84403985	0.69671152
Southeast	**9**	2.65113418	0.47983970
Southwest	**9**	3.81574801	0.75807324

PAHs Total PAH

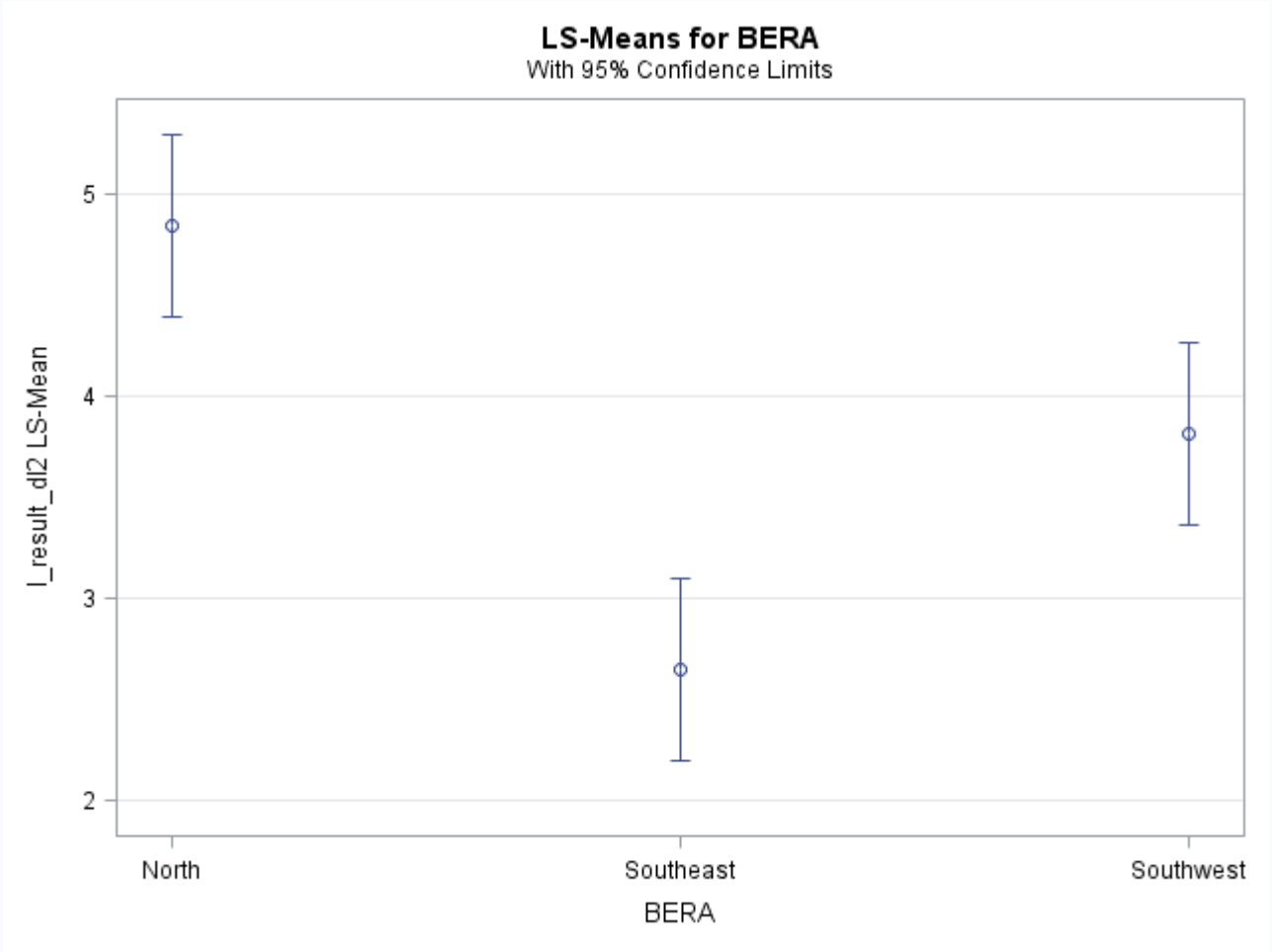
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.84403985	1
Southeast	2.65113418	2
Southwest	3.81574801	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		<.0001	0.0077
2	<.0001		0.0026
3	0.0077	0.0026	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5
4
3
2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Lipids Lipids
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

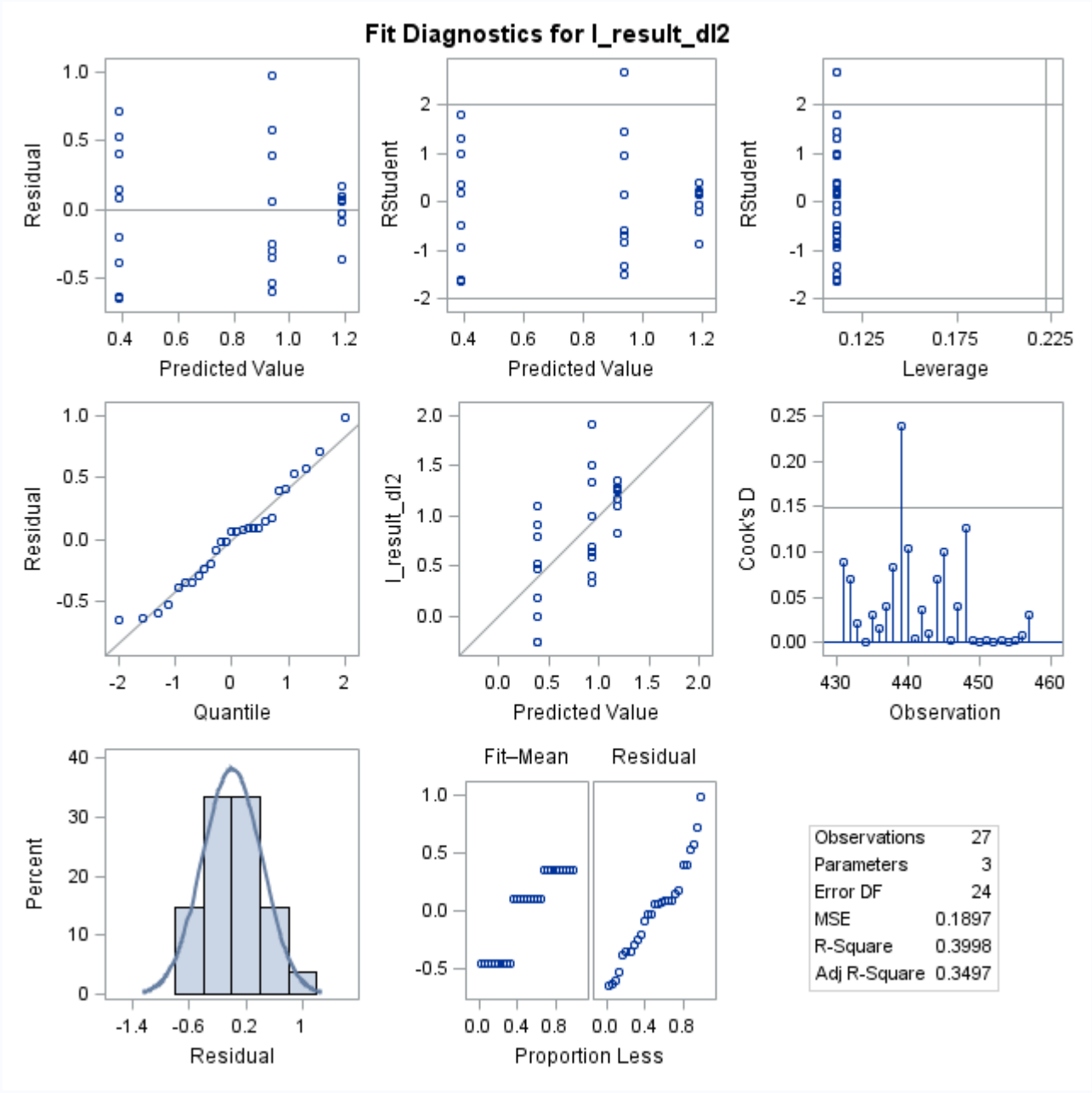
Dependent Variable: l_result_dl2
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.03147614	1.51573807	7.99	0.0022
Error	24	4.55173088	0.18965545		
Corrected Total	26	7.58320702			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.399762	52.02374	0.435494	0.837107

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.03147614	1.51573807	7.99	0.0022

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.03147614	1.51573807	7.99	0.0022


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.1897
R-Square 0.3998
Adj R-Square 0.3497

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.3002	0.1501	3.70	0.0396
Error	24	0.9724	0.0405		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	10.52	0.0022
Error	12.3193		

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	0.93611420	0.54402778
Southeast	**9**	0.38627641	0.49888287
Southwest	**9**	1.18893087	0.15529332

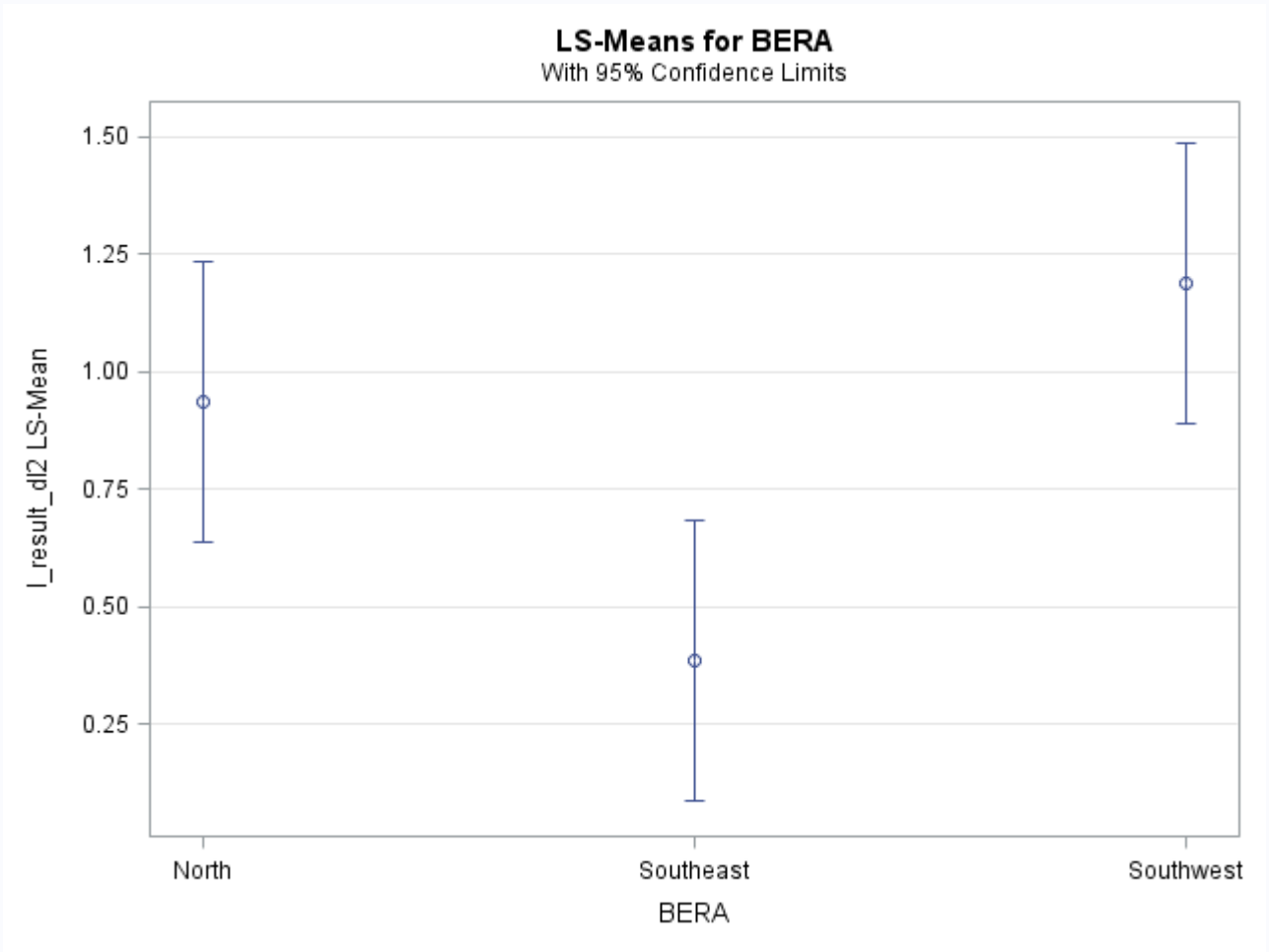
Lipids Lipids
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	0.93611420	1
Southeast	0.38627641	2
Southwest	1.18893087	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0339	0.4467
2	0.0339		0.0018
3	0.4467	0.0018	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
1.50
1.25
1.00
0.75
0.50
0.25
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Arsenic
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

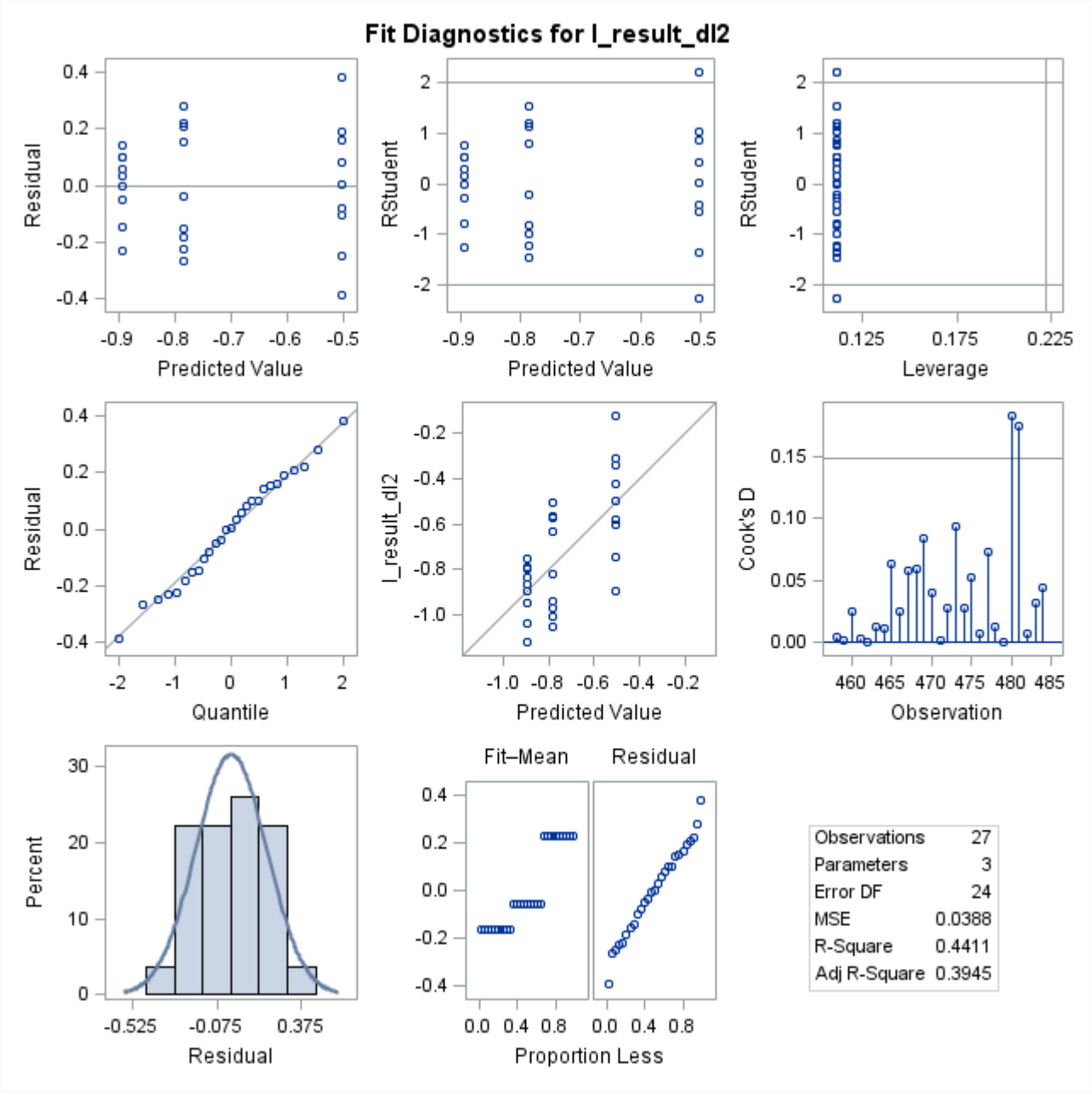
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.73592255	0.36796127	9.47	0.0009
Error	24	0.93239751	0.03884990		
Corrected Total	26	1.66832006			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.441116	-27.09889	0.197104	-0.727350

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.73592255	0.36796127	9.47	0.0009

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.73592255	0.36796127	9.47	0.0009


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.0388
R-Square 0.4411
Adj R-Square 0.3945

Metals Arsenic
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00633	0.00316	2.19	0.1343
Error	24	0.0347	0.00145		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	9.42	0.0024
Error	14.5927		

Metals Arsenic
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	-0.89391535	0.12275717
Southeast	**9**	-0.78575901	0.21493109
Southwest	**9**	-0.50237546	0.23512761

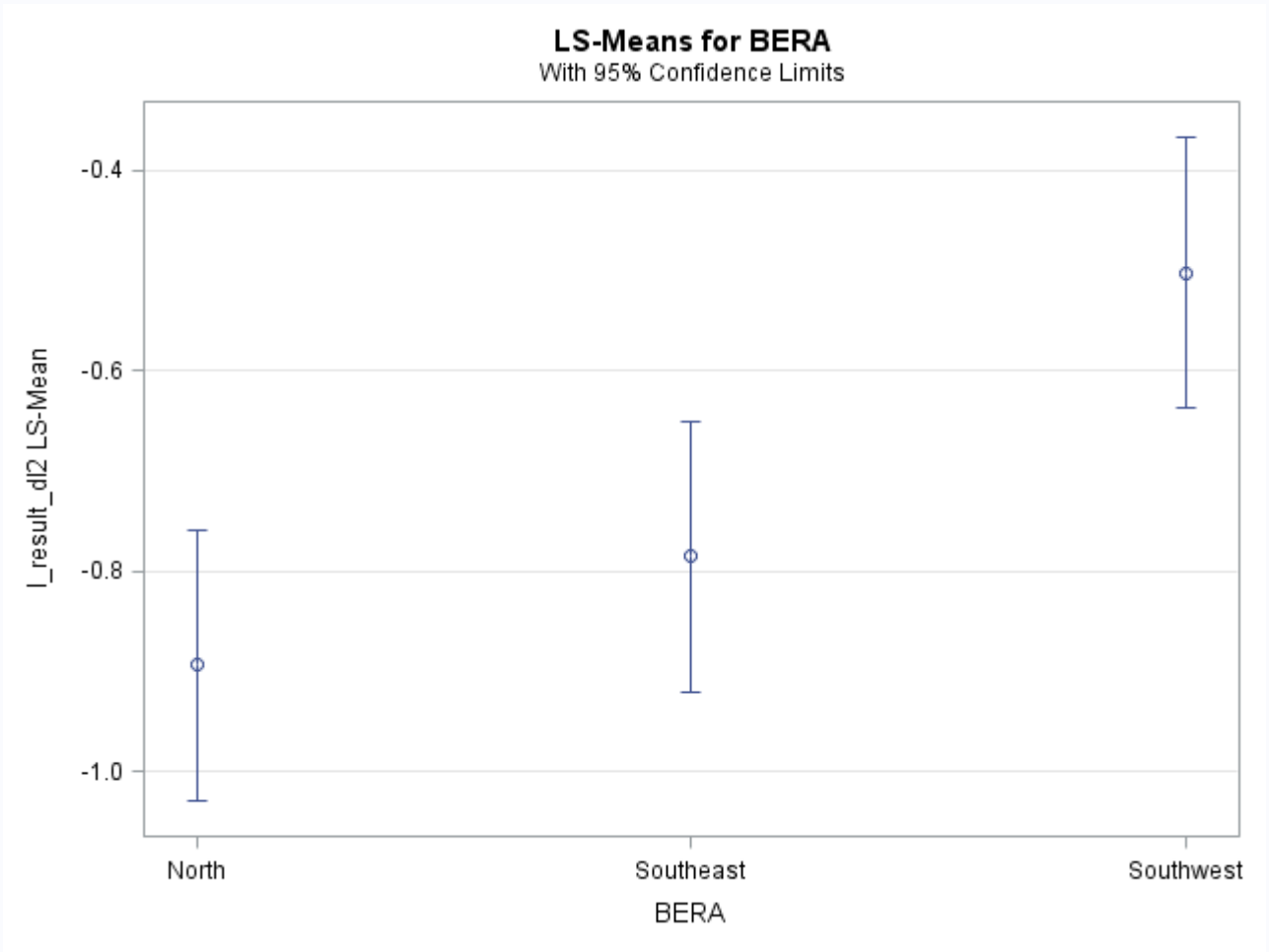
Metals Arsenic
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.89391535	1
Southeast	-0.78575901	2
Southwest	-0.50237546	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4854	0.0009
2	0.4854		0.0147
3	0.0009	0.0147	


LS-Means for BERA
With 95% Confidence Limits
-0.4
-0.6
-0.8
-1.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Chromium
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

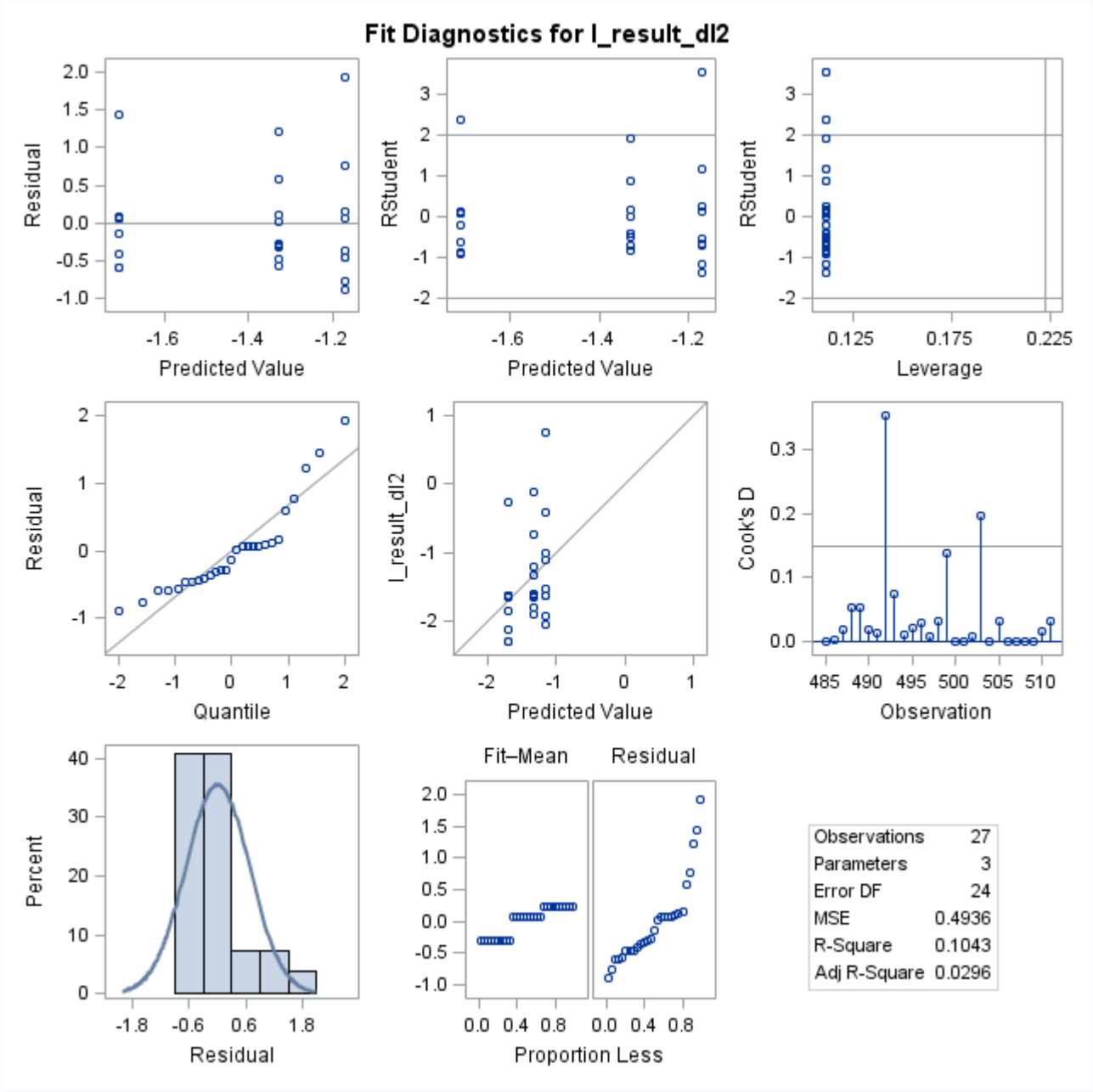
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.37888799	0.68944400	1.40	0.2668
Error	24	11.84528527	0.49355355		
Corrected Total	26	13.22417326			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.104270	-50.05355	0.702534	-1.403564

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.37888799	0.68944400	1.40	0.2668

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.37888799	0.68944400	1.40	0.2668


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.4936
R-Square 0.1043
Adj R-Square 0.0296

Metals Chromium
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.8721	0.4361	0.65	0.5317
Error	24	16.1372	0.6724		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.40	0.2765
Error	15.5897		

Metals Chromium

NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	-1.17073068	0.88220626
Southeast	**9**	-1.33038564	0.57312395
Southwest	**9**	-1.70957601	0.61147503

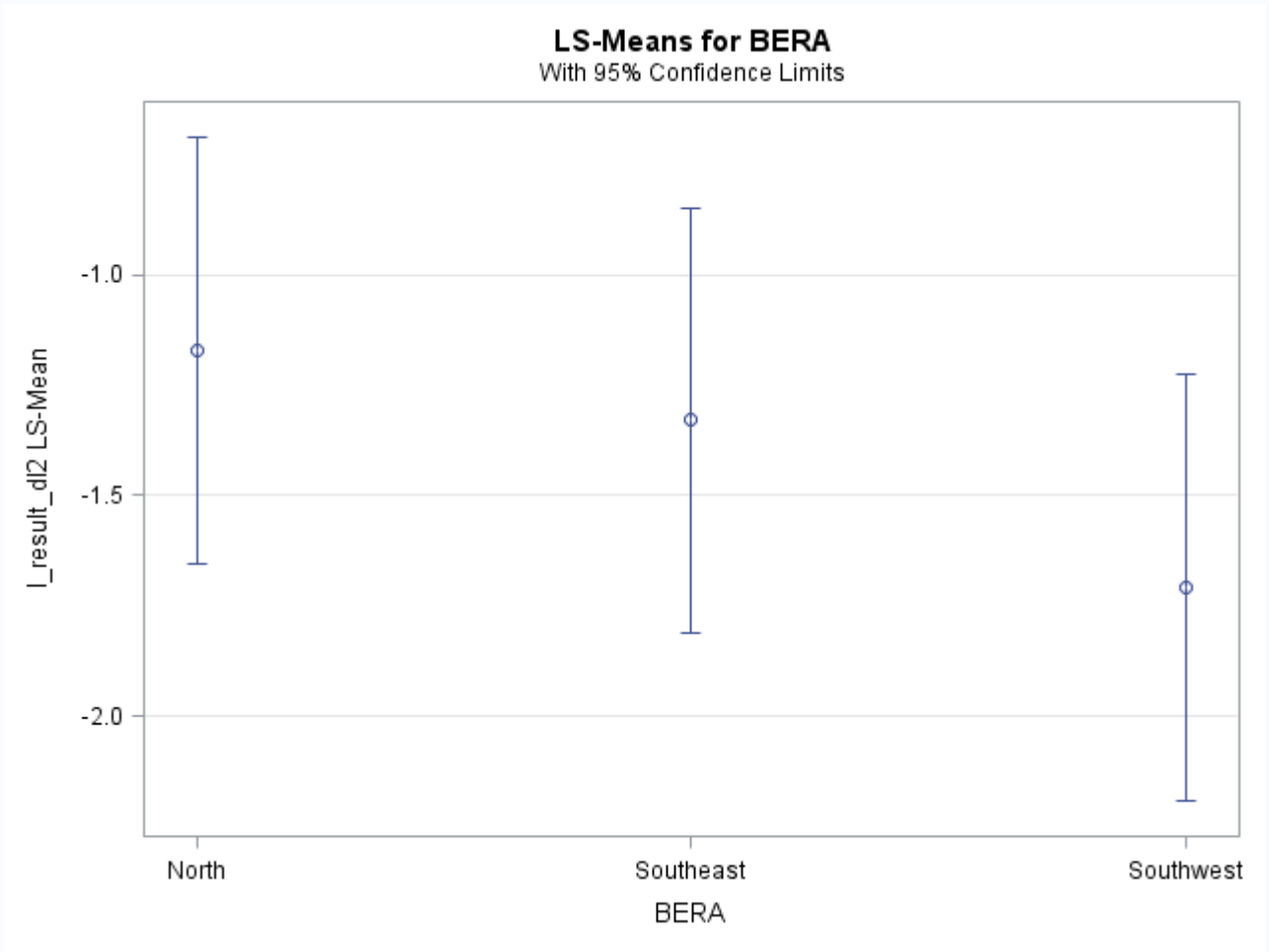
Metals Chromium
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.17073068	1
Southeast	-1.33038564	2
Southwest	-1.70957601	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8804	0.2540
2	0.8804		0.4966
3	0.2540	0.4966	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
-1.0
-1.5
-2.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Copper
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

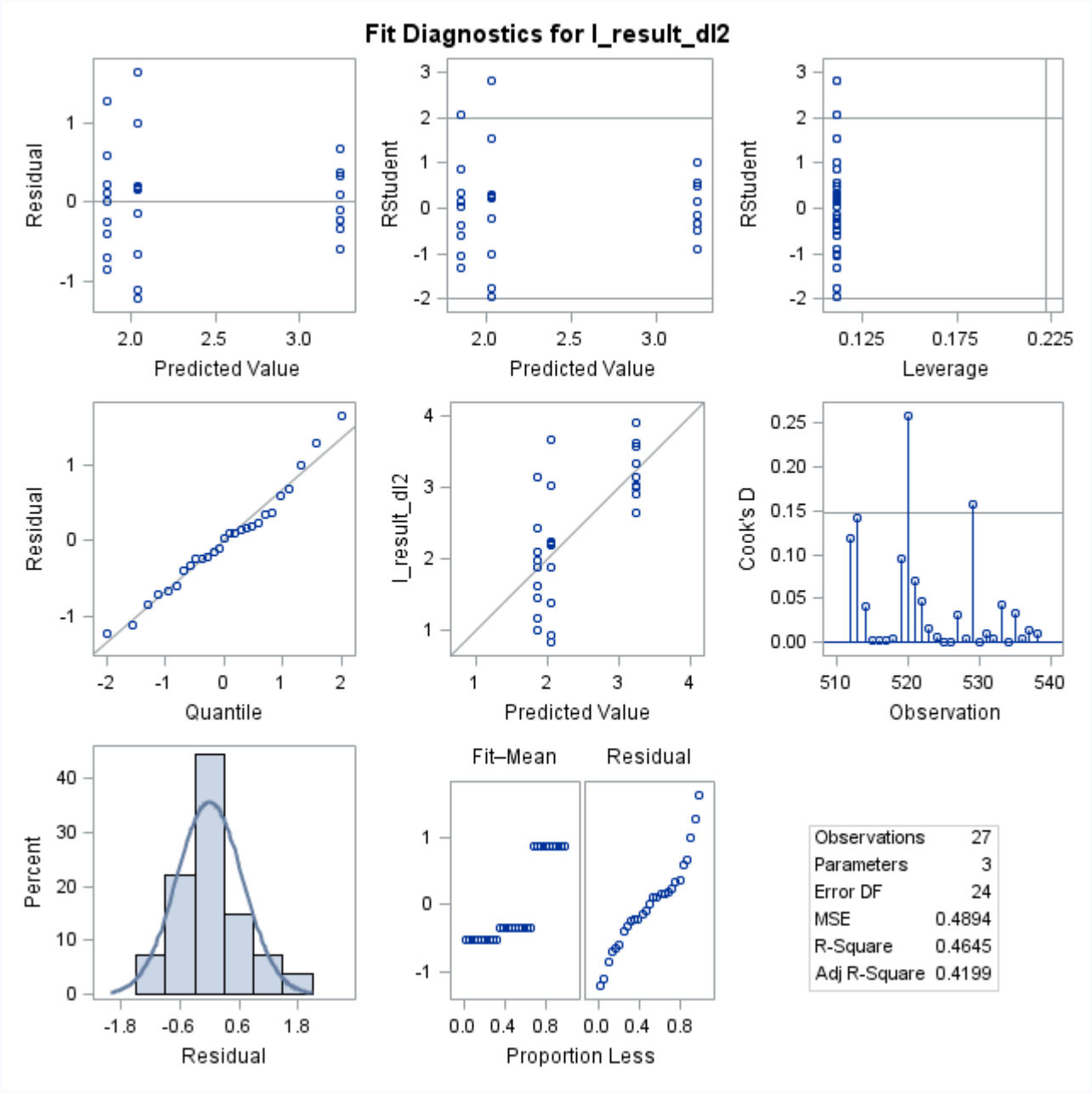
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	10.19054795	5.09527398	10.41	0.0006
Error	24	11.74616253	0.48942344		
Corrected Total	26	21.93671048			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.464543	29.44879	0.699588	2.375609

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	10.19054795	5.09527398	10.41	0.0006

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	10.19054795	5.09527398	10.41	0.0006


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.4894
R-Square 0.4645
Adj R-Square 0.4199

Metals Copper
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.8151	0.9076	2.35	0.1169
Error	24	9.2672	0.3861		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	16.78	0.0002
Error	14.3713		

Metals Copper
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	2.03569401	0.93273203
Southeast	**9**	1.85311726	0.66105470
Southwest	**9**	3.23801452	0.40160673

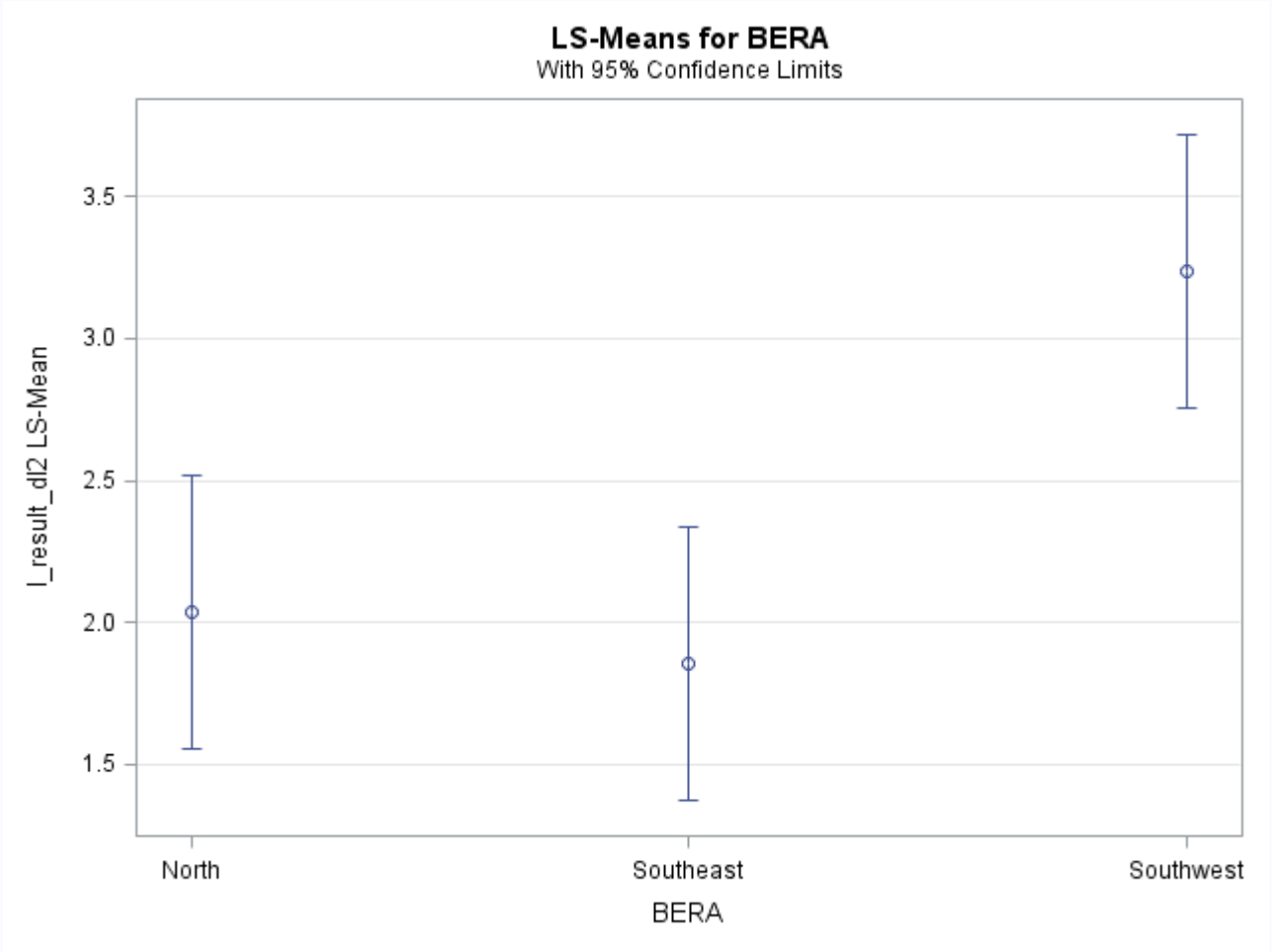
Metals Copper
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.03569401	1
Southeast	1.85311726	2
Southwest	3.23801452	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8456	0.0035
2	0.8456		0.0009
3	0.0035	0.0009	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.5
3.0
2.5
2.0
1.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Lead
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

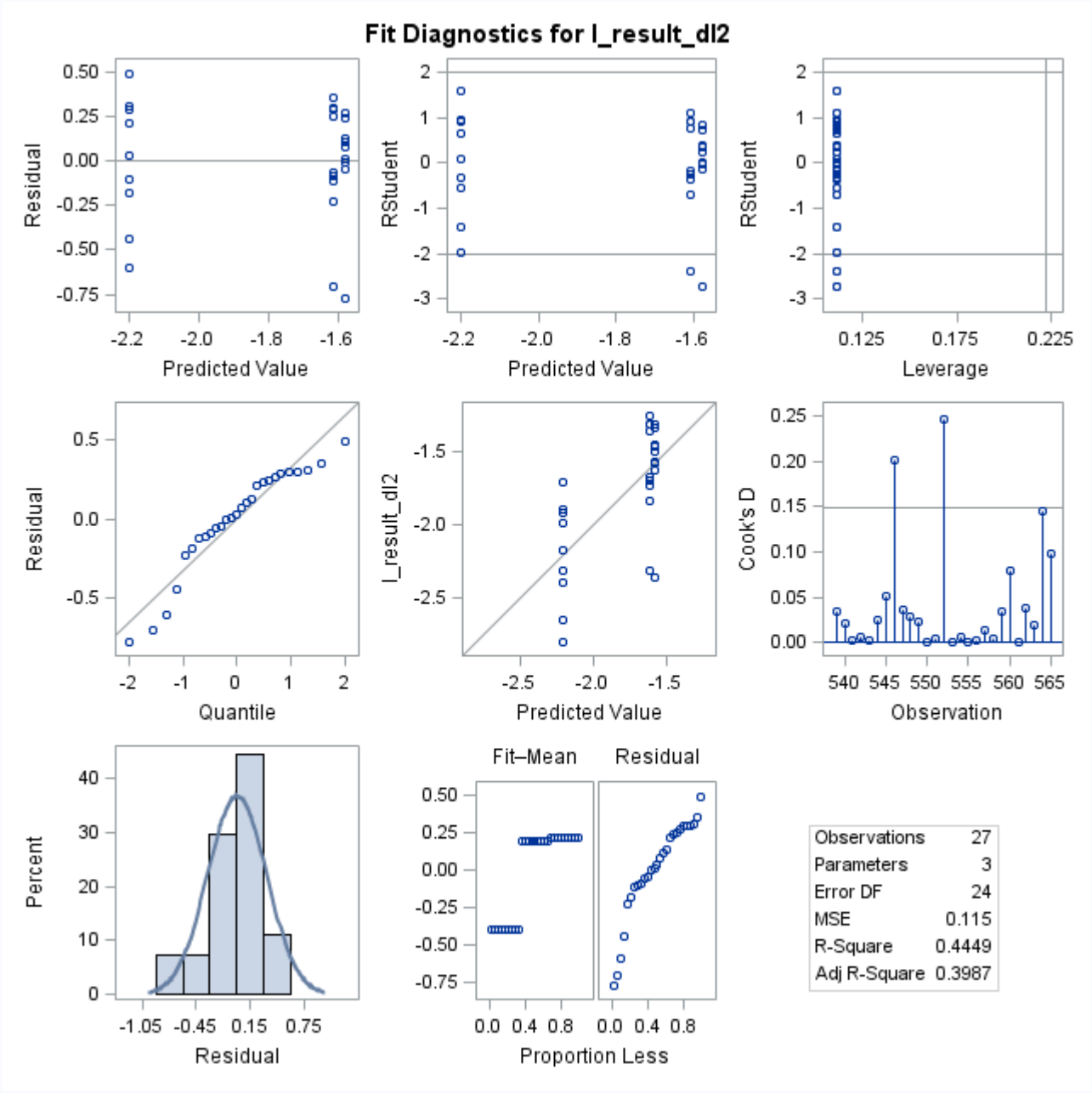
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.21264882	1.10632441	9.62	0.0009
Error	24	2.76055921	0.11502330		
Corrected Total	26	4.97320802			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.444914	-18.87964	0.339151	-1.796384

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.21264882	1.10632441	9.62	0.0009

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.21264882	1.10632441	9.62	0.0009


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.115
R-Square 0.4449
Adj R-Square 0.3987

Metals Lead

NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00477	0.00239	0.09	0.9104
Error	24	0.6080	0.0253		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	8.65	0.0029
Error	15.9282		

Metals Lead

NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	-1.61052187	0.34137383
Southeast	**9**	-1.57784064	0.30982859
Southwest	**9**	-2.20078966	0.36406050

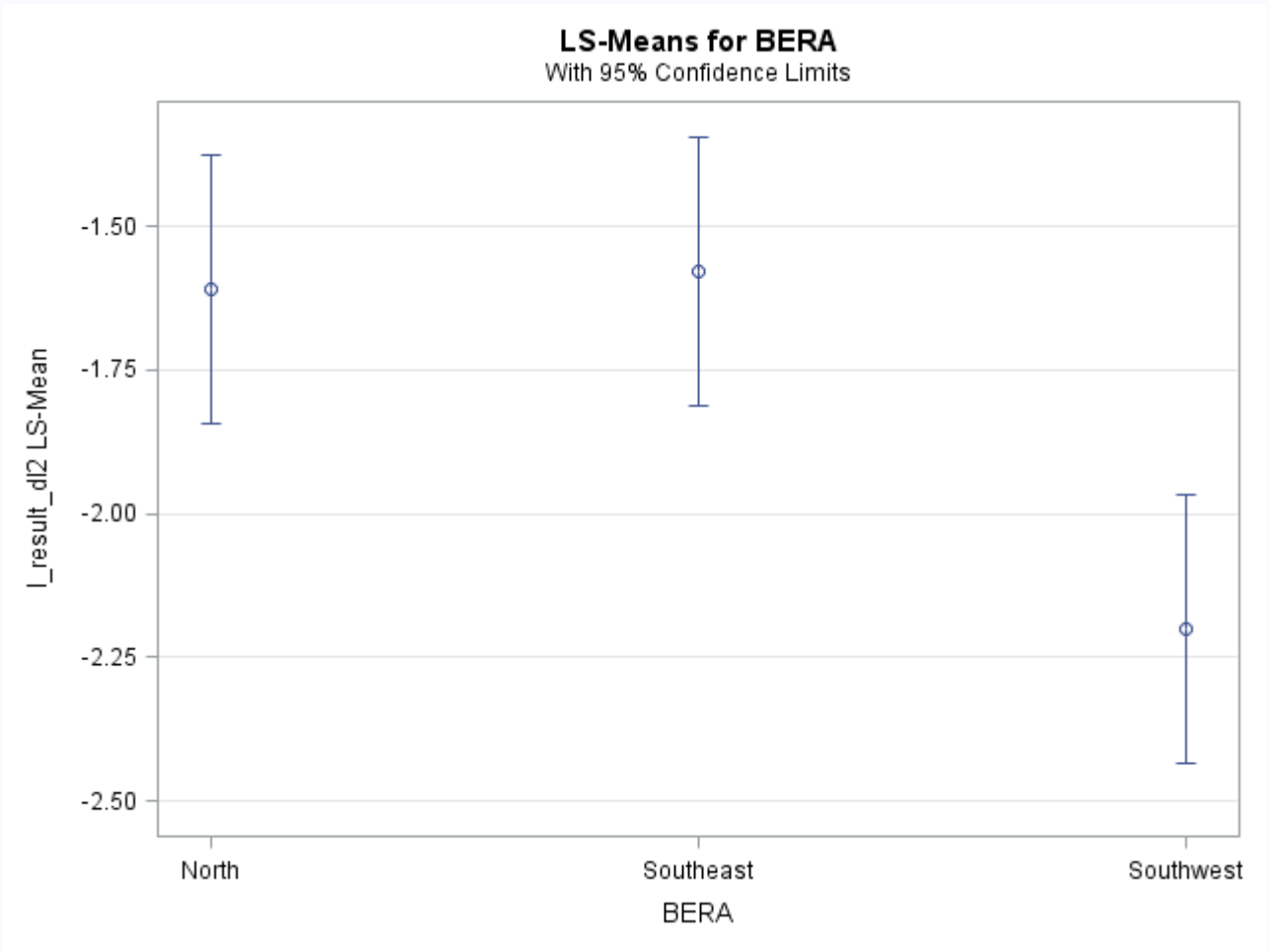
Metals Lead
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.61052187	1
Southeast	-1.57784064	2
Southwest	-2.20078966	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9772	0.0032
2	0.9772		0.0019
3	0.0032	0.0019	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
-1.50
-1.75
-2.00
-2.25
-2.50
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

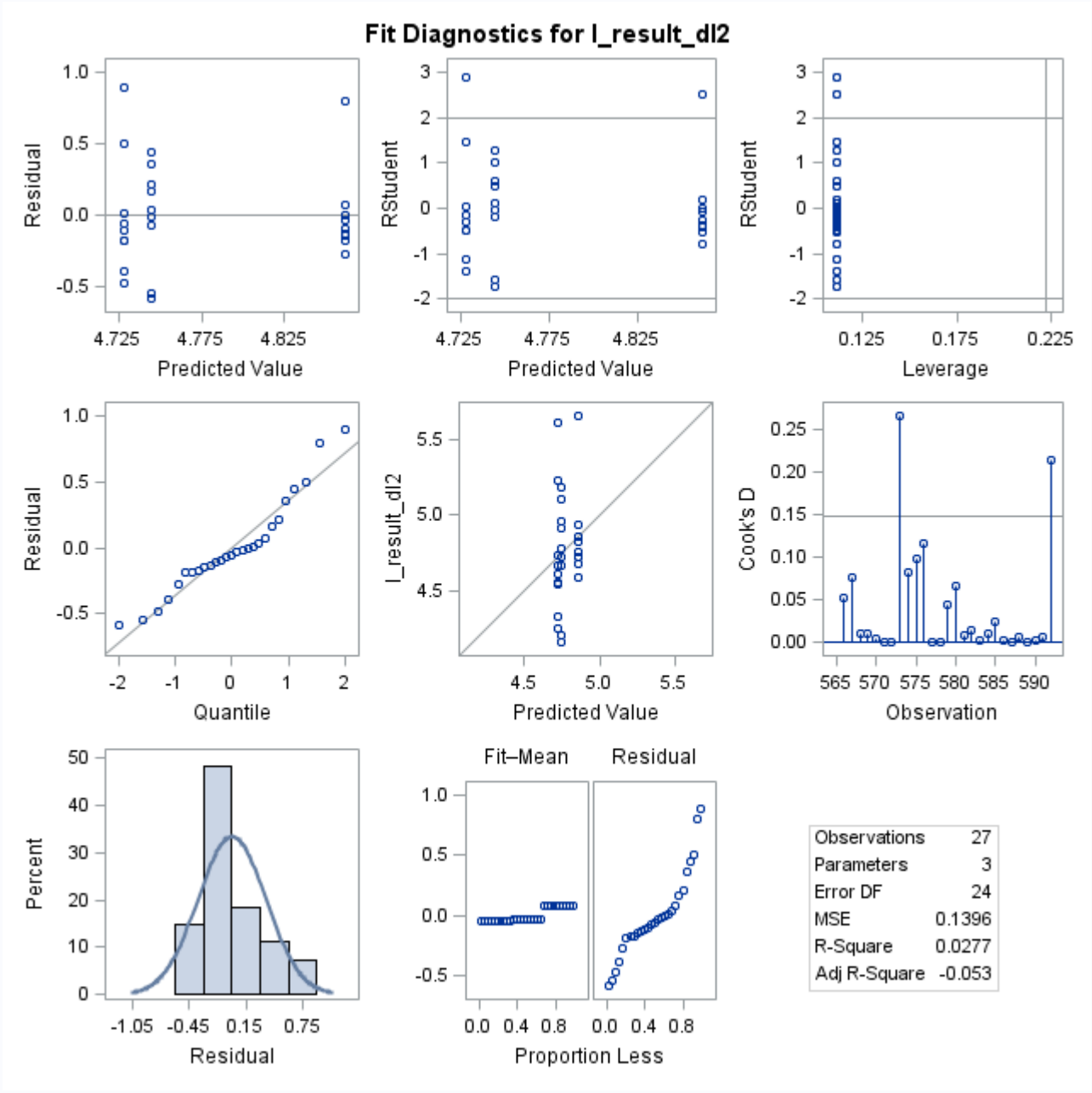
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.09541853	0.04770927	0.34	0.7139
Error	24	3.34974278	0.13957262		
Corrected Total	26	3.44516131			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.027696	7.818913	0.373594	4.778084

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.09541853	0.04770927	0.34	0.7139

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.09541853	0.04770927	0.34	0.7139


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.1396
R-Square 0.0277
Adj R-Square -0.053

Metals Mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0283	0.0141	0.34	0.7161
Error	24	1.0015	0.0417		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.38	0.6917
Error	15.7557		

Metals Mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	4.72816029	0.43348397
Southeast	**9**	4.74446398	0.36155287
Southwest	**9**	4.86162666	0.31636848

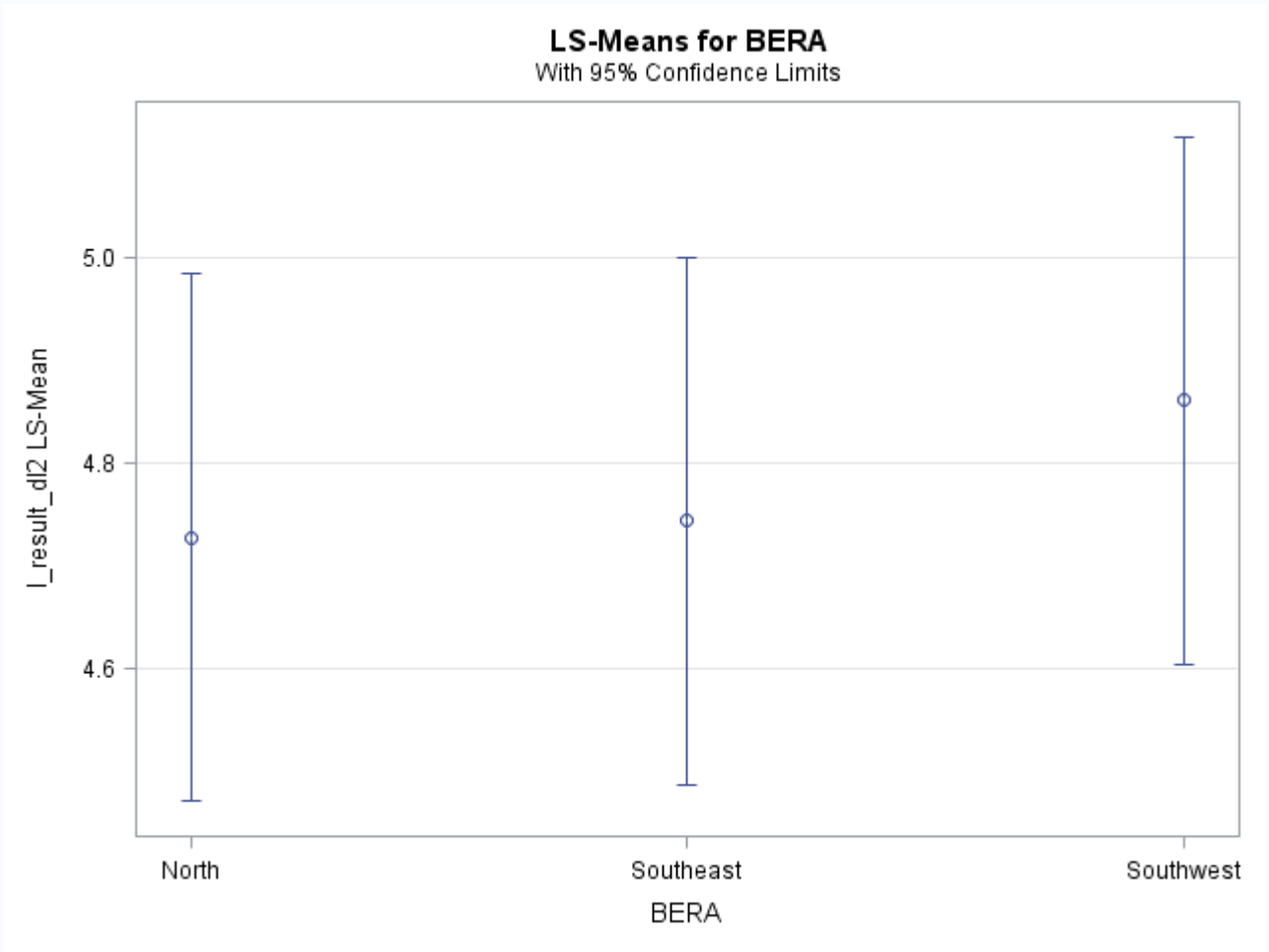
Metals Mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.72816029	1
Southeast	4.74446398	2
Southwest	4.86162666	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9953	0.7319
2	0.9953		0.7856
3	0.7319	0.7856	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5.0
4.8
4.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Methyl mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

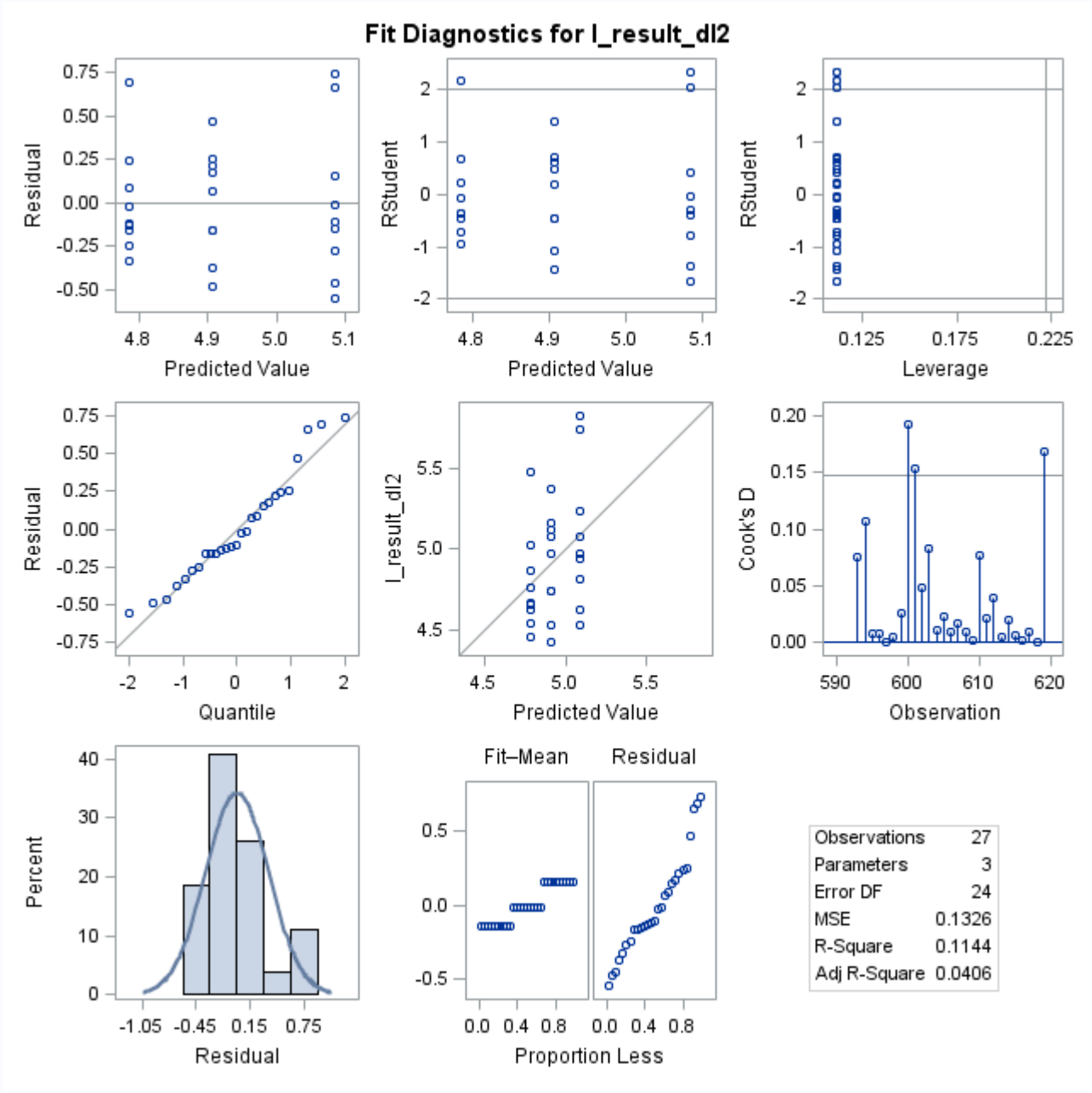
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.41094308	0.20547154	1.55	0.2328
Error	24	3.18212388	0.13258849		
Corrected Total	26	3.59306696			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.114371	7.392203	0.364127	4.925825

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.41094308	0.20547154	1.55	0.2328

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.41094308	0.20547154	1.55	0.2328


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.1326
R-Square 0.1144
Adj R-Square 0.0406

Metals Methyl mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0525	0.0262	1.09	0.3527
Error	24	0.5786	0.0241		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.32	0.2952
Error	15.6569		

Metals Methyl mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	5.08532732	0.45025189
Southeast	**9**	4.90730761	0.31406689
Southwest	**9**	4.78484111	0.31048463

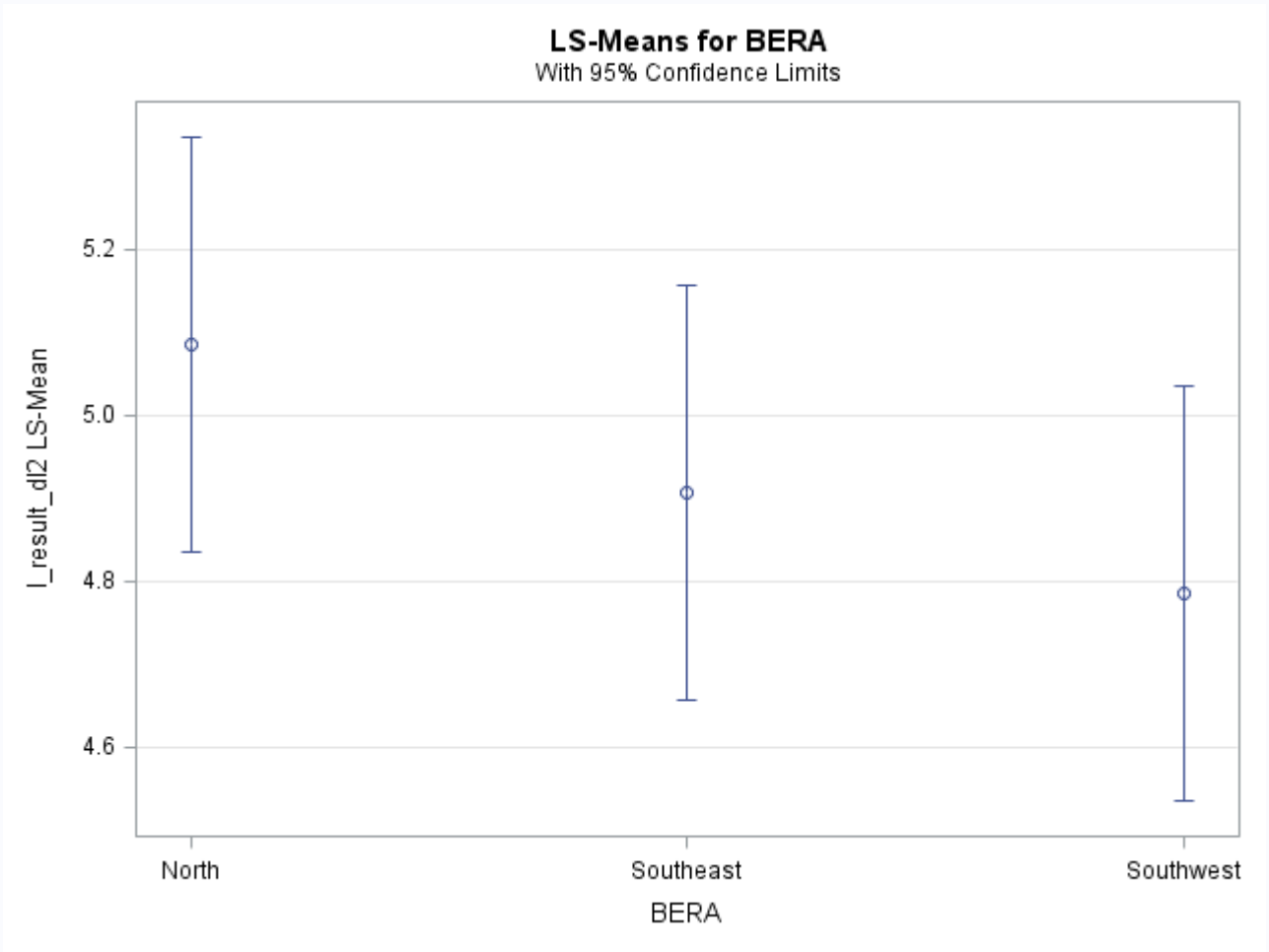
Metals Methyl mercury
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	5.08532732	1
Southeast	4.90730761	2
Southwest	4.78484111	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5613	0.2076
2	0.5613		0.7580
3	0.2076	0.7580	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5.2
5.0
4.8
4.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Selenium
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

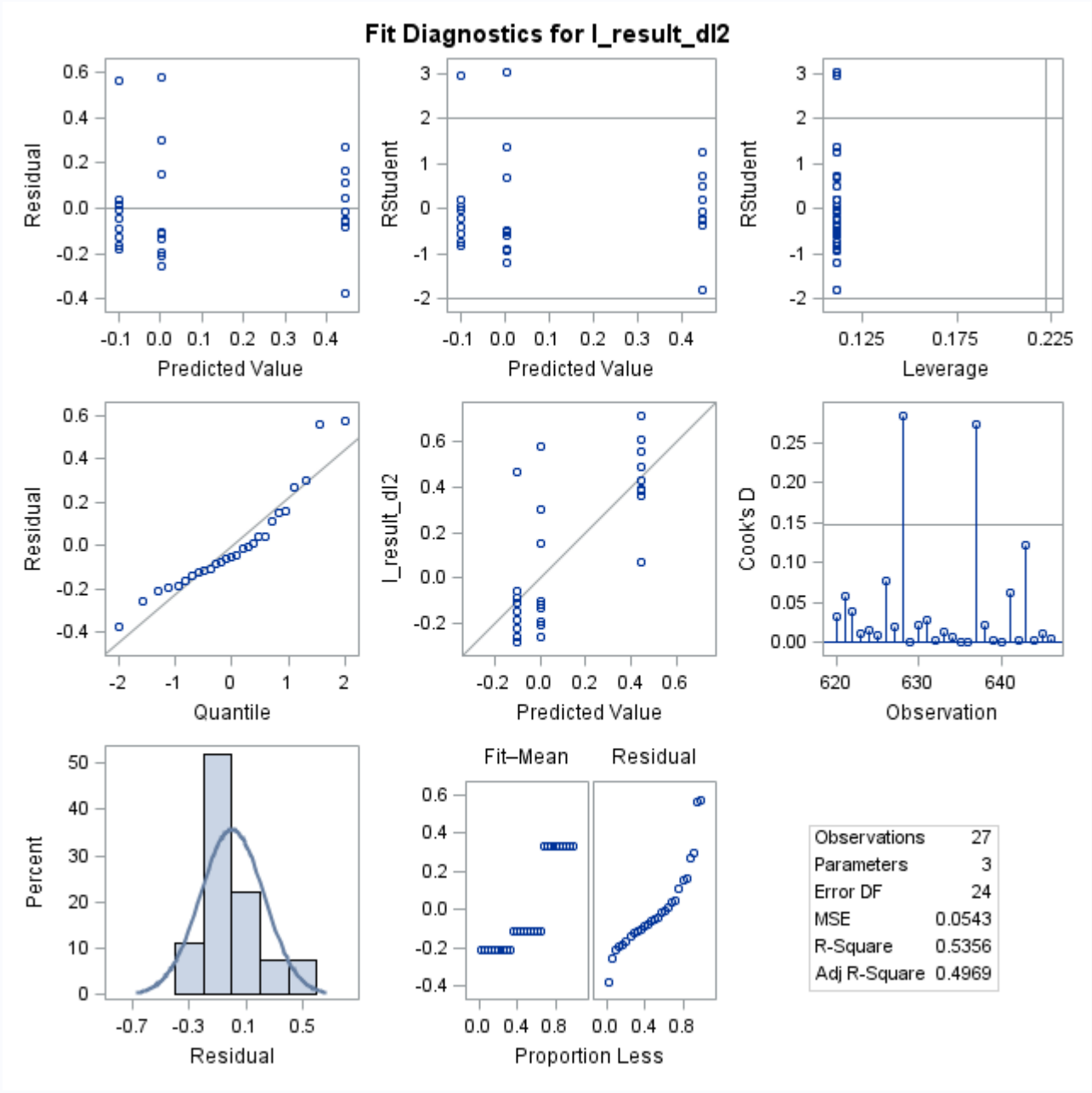
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.50348899	0.75174450	13.84	0.0001
Error	24	1.30343929	0.05430997		
Corrected Total	26	2.80692828			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.535635	200.3602	0.233045	0.116313

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.50348899	0.75174450	13.84	0.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.50348899	0.75174450	13.84	0.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.0543
R-Square 0.5356
Adj R-Square 0.4969

Metals Selenium
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00757	0.00379	0.50	0.6152
Error	24	0.1833	0.00764		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	17.42	0.0001
Error	15.5479		

Metals Selenium
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	0.00266875	0.28119768
Southeast	**9**	-0.09860162	0.22462750
Southwest	**9**	0.44487201	0.18275739

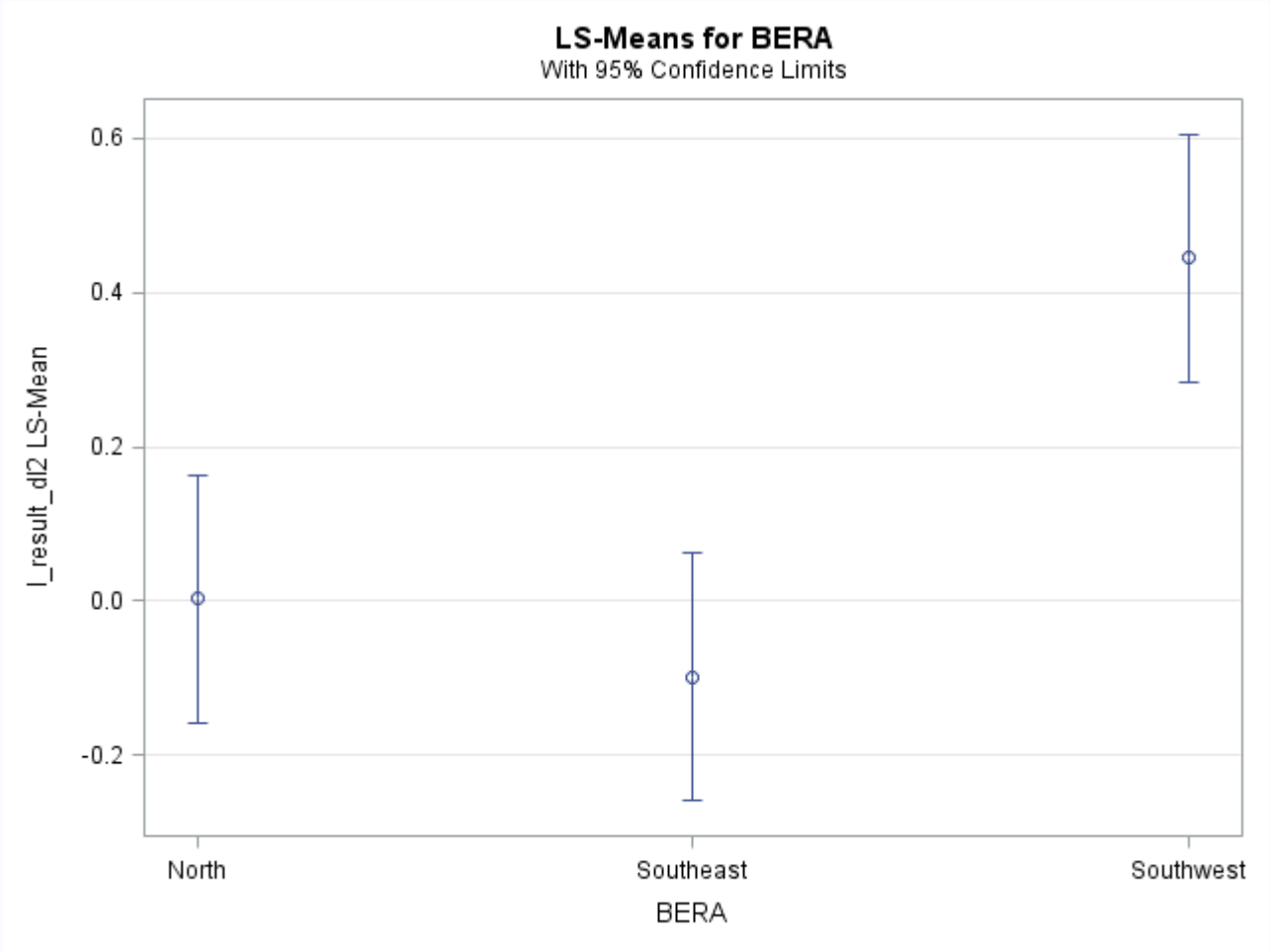
Metals Selenium
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	0.00266875	1
Southeast	-0.09860162	2
Southwest	0.44487201	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6321	0.0014
2	0.6321		0.0001
3	0.0014	0.0001	


LS-Means for BERA
With 95% Confidence Limits
0.6
0.4
0.2
0.0
-0.2
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Silver
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

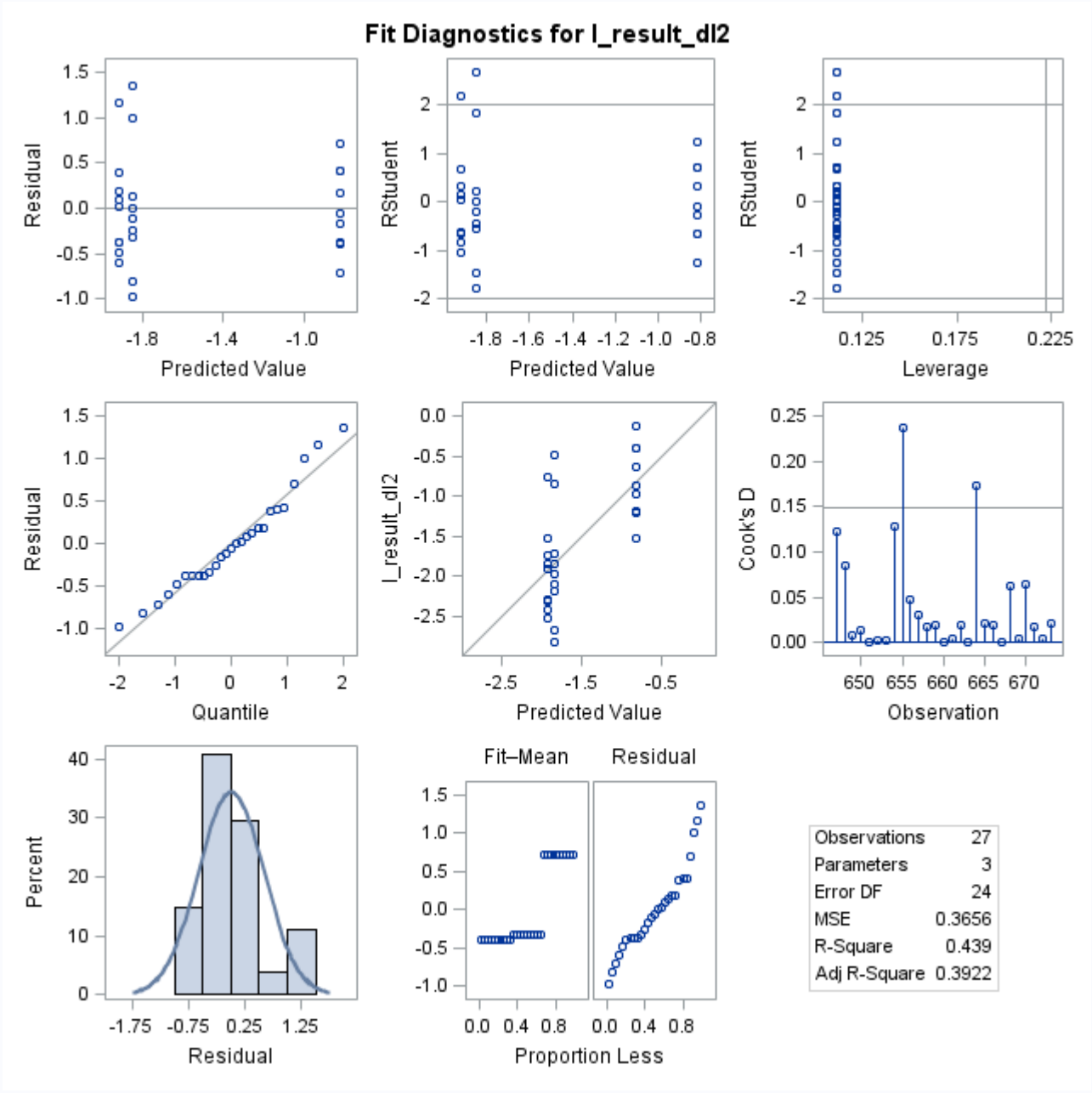
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	6.86507958	3.43253979	9.39	0.0010
Error	24	8.77398154	0.36558256		
Corrected Total	26	15.63906112			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.438970	-39.47167	0.604634	-1.531818

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	6.86507958	3.43253979	9.39	0.0010

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	6.86507958	3.43253979	9.39	0.0010


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.3656
R-Square 0.439
Adj R-Square 0.3922

Metals Silver
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.5340	0.2670	1.27	0.2990
Error	24	5.0450	0.2102		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	12.27	0.0006
Error	15.4436		

Metals Silver
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	-1.85136822	0.76353223
Southeast	**9**	-1.92413830	0.55020021
Southwest	**9**	-0.81994788	0.45939738

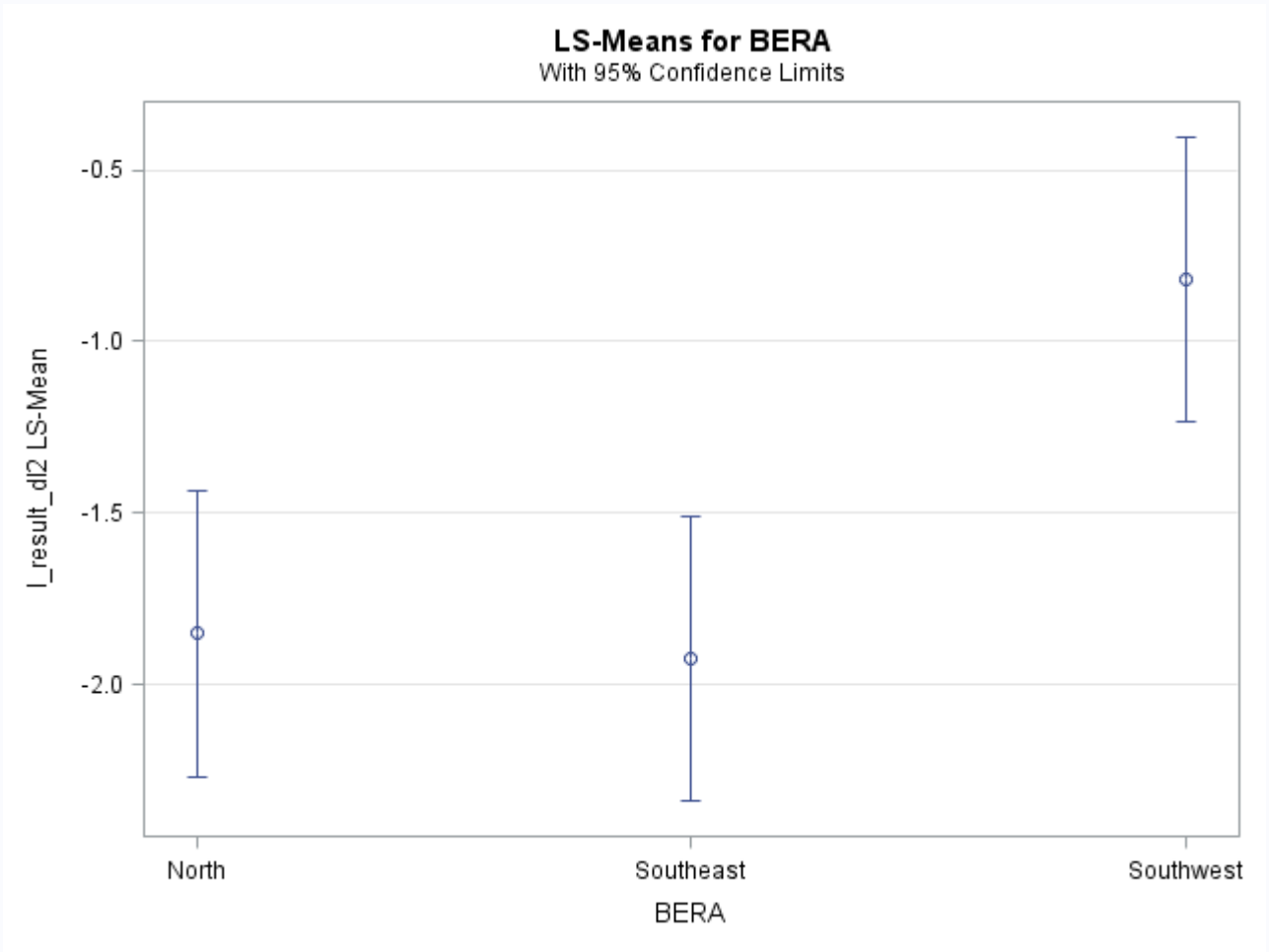
Metals Silver
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-1.85136822	1
Southeast	-1.92413830	2
Southwest	-0.81994788	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9648	0.0038
2	0.9648		0.0020
3	0.0038	0.0020	


LS-Means for BERA
With 95% Confidence Limits
-0.5
-1.0
-1.5
-2.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Metals Zinc
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure

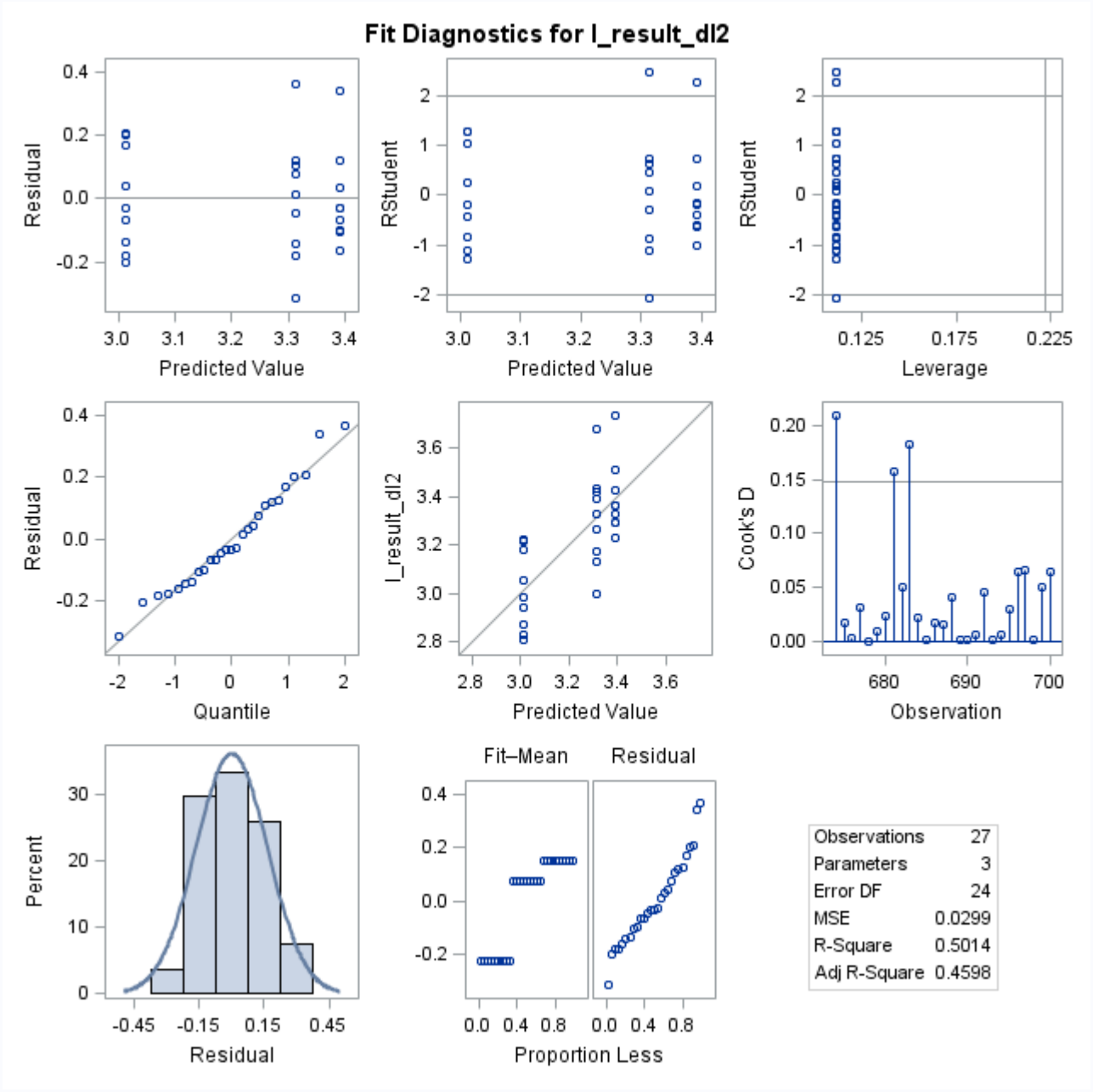
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.72063824	0.36031912	12.07	0.0002
Error	24	0.71673399	0.02986392		
Corrected Total	26	1.43737222			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.501358	5.335916	0.172812	3.238653

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.72063824	0.36031912	12.07	0.0002

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.72063824	0.36031912	12.07	0.0002


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 3
Error DF 24
MSE 0.0299
R-Square 0.5014
Adj R-Square 0.4598

Metals Zinc
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00113	0.000567	0.43	0.6533
Error	24	0.0314	0.00131		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	13.31	0.0004
Error	15.8140		

Metals Zinc
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**9**	3.31145990	0.19994105
Southeast	**9**	3.39214333	0.15186781
Southwest	**9**	3.01235499	0.16294629

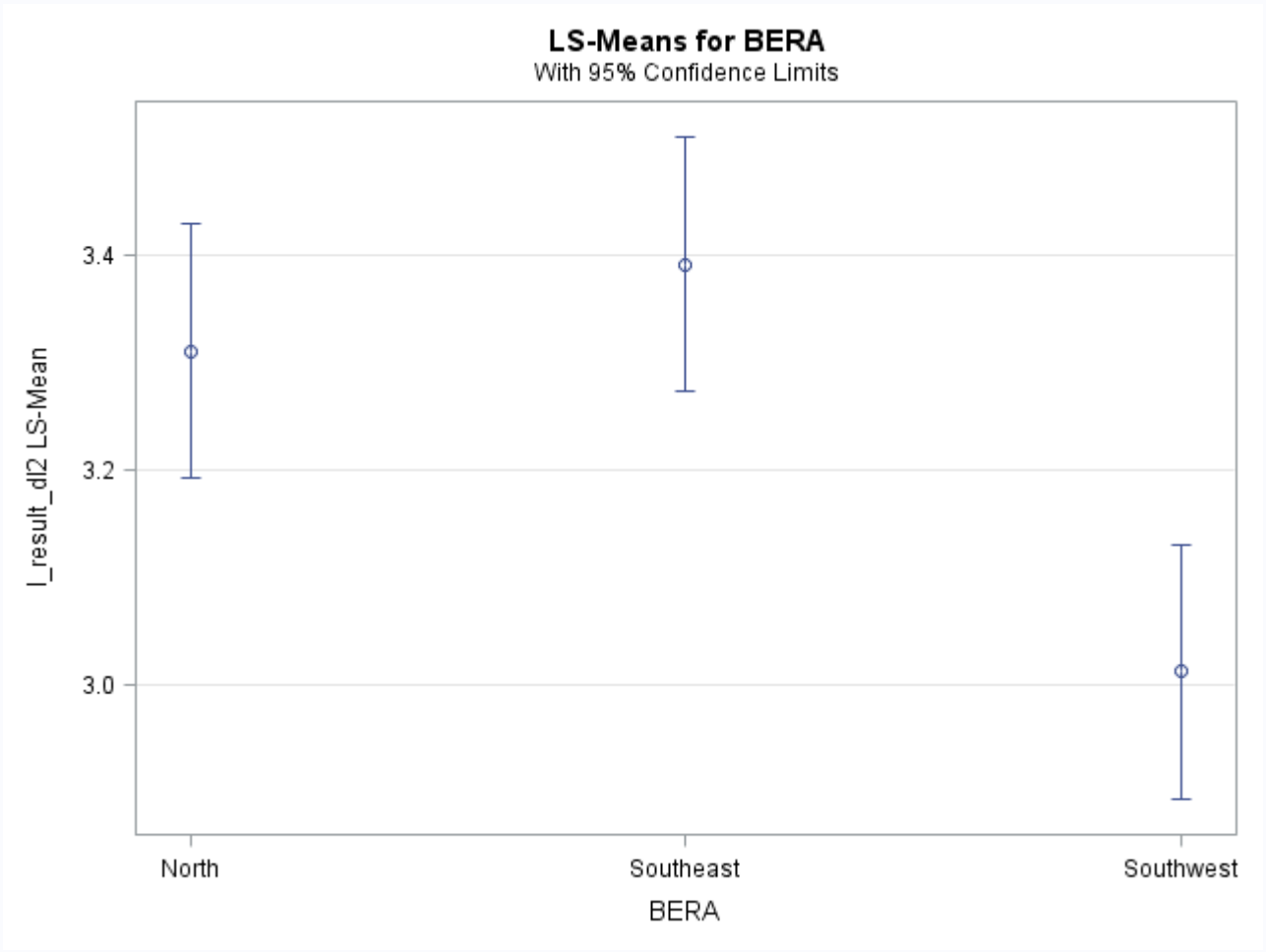
Metals Zinc
NBSA Whole Body White perch ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.31145990	1
Southeast	3.39214333	2
Southwest	3.01235499	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5899	0.0033
2	0.5899		0.0003
3	0.0033	0.0003	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.4
3.2
3.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

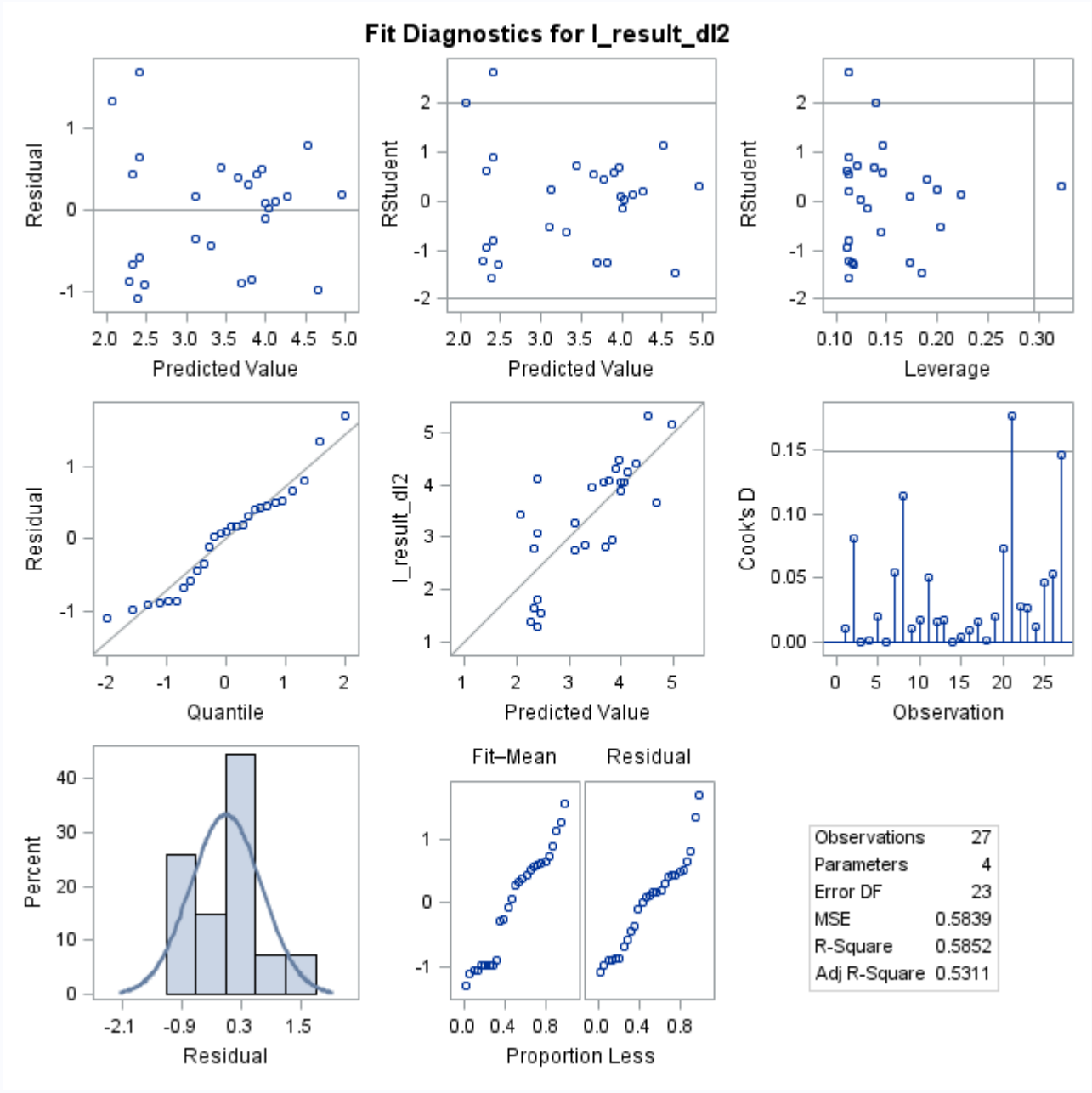
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	18.94960462	6.31653487	10.82	0.0001
Error	23	13.42945077	0.58388916		
Corrected Total	26	32.37905539			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.585243	22.56806	0.764126	3.385875

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.00001744	0.00001744	0.00	0.9957
BERA	2	18.94958718	9.47479359	16.23	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	2.55204527	2.55204527	4.37	0.0478
BERA	2	18.94958718	9.47479359	16.23	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.5839
R-Square 0.5852
Adj R-Square 0.5311

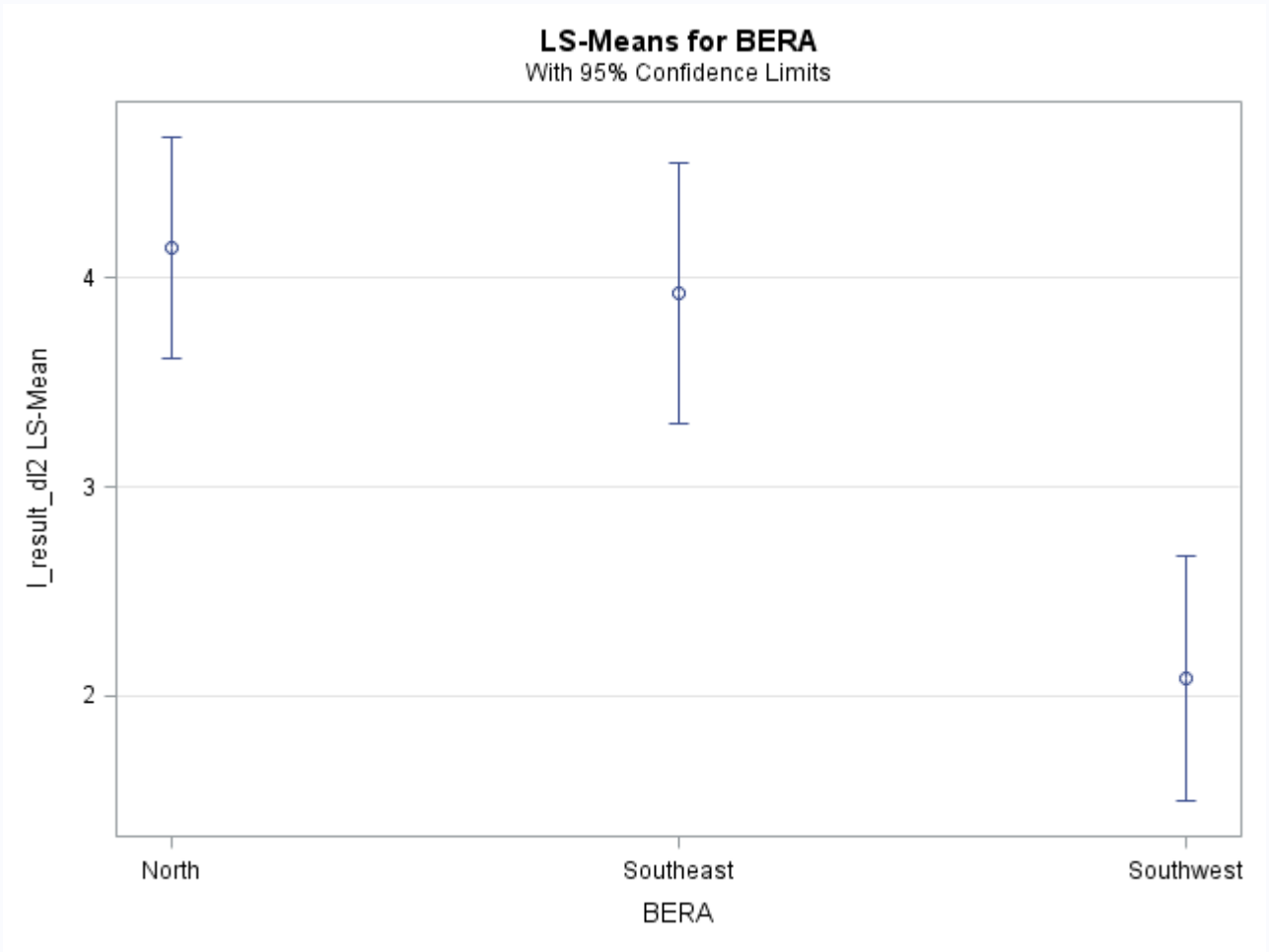
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.14525530	1
Southeast	3.93112460	2
Southwest	2.08124638	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8616	<.0001
2	0.8616		0.0015
3	<.0001	0.0015	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4
3
2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

PCBs Total PCBs congener (209 specified)
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

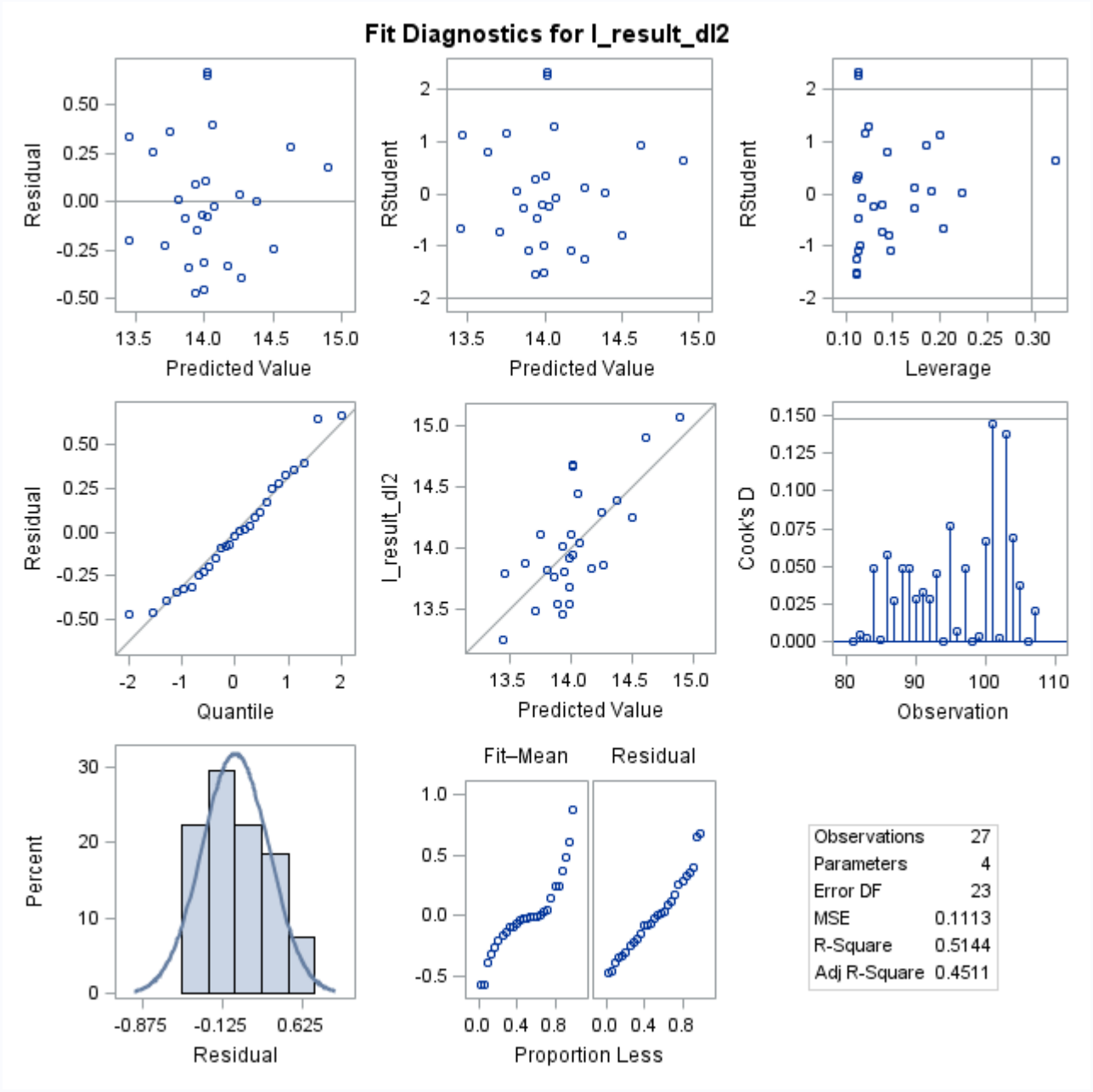
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.71215550	0.90405183	8.12	0.0007
Error	23	2.55986595	0.11129852		
Corrected Total	26	5.27202145			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.514443	2.378627	0.333614	14.02550

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.71906506	1.71906506	15.45	0.0007
BERA	2	0.99309045	0.49654522	4.46	0.0231

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	2.15647749	2.15647749	19.38	0.0002
BERA	2	0.99309045	0.49654522	4.46	0.0231


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.1113
R-Square 0.5144
Adj R-Square 0.4511

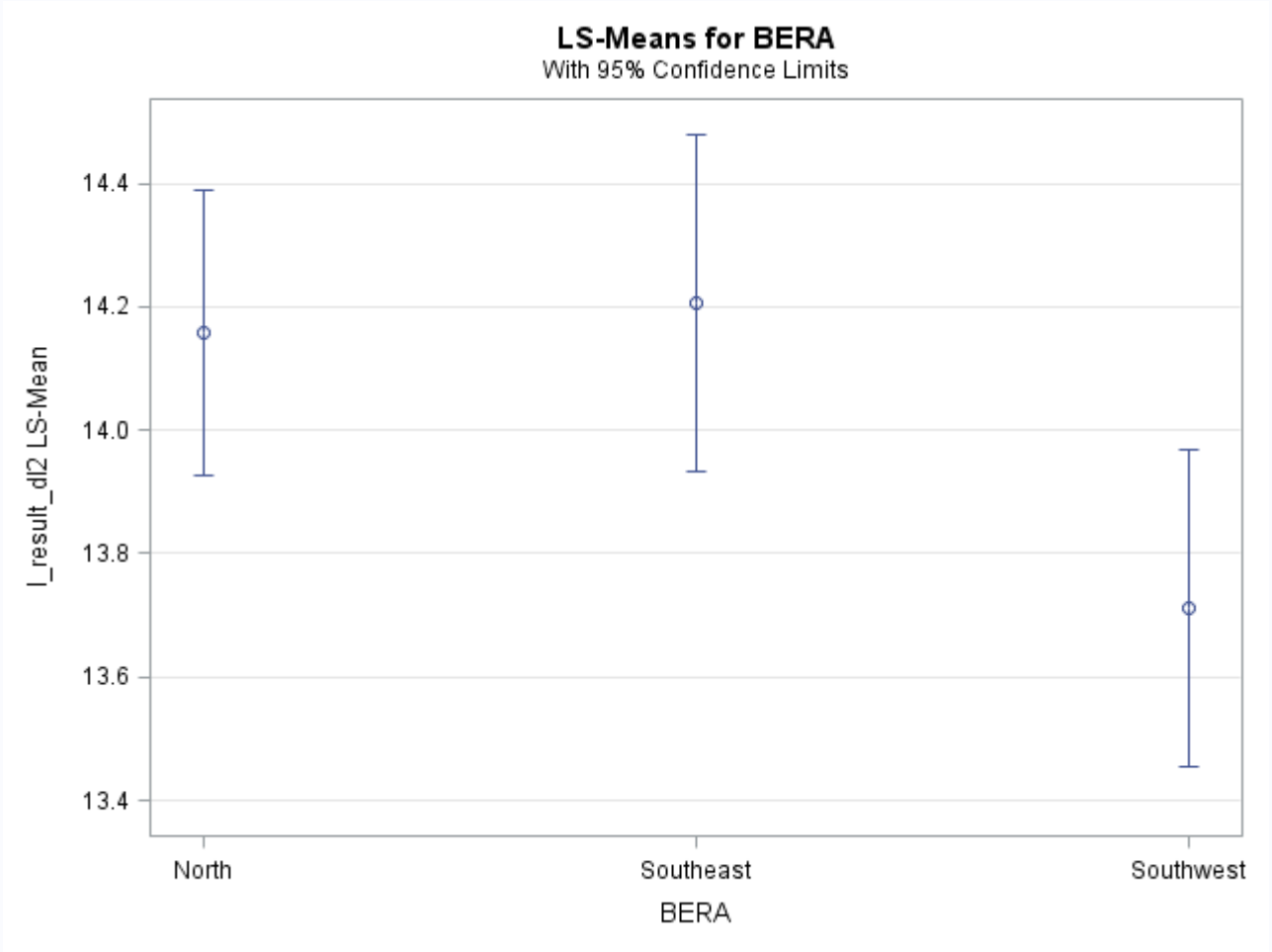
PCBs Total PCBs congener (209 specified)
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	14.1574373	1
Southeast	14.2066856	2
Southwest	13.7123814	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9593	0.0299
2	0.9593		0.0552
3	0.0299	0.0552	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
14.4
14.2
14.0
13.8
13.6
13.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Dieldrin
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

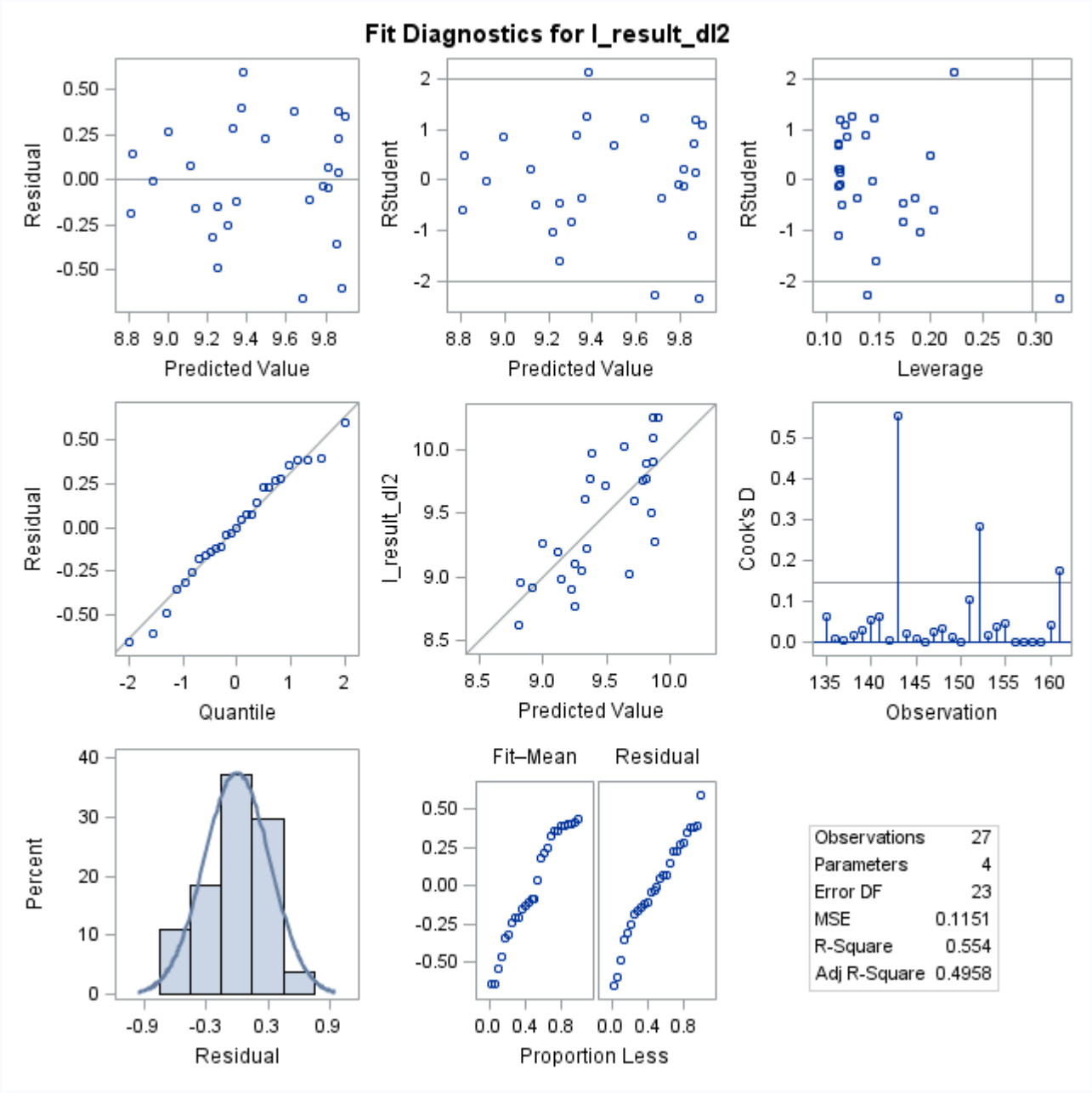
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.28690287	1.09563429	9.52	0.0003
Error	23	2.64648290	0.11506447		
Corrected Total	26	5.93338577			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.553967	3.585642	0.339212	9.460273

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	2.79197395	2.79197395	24.26	<.0001
BERA	2	0.49492892	0.24746446	2.15	0.1392

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.79047951	0.79047951	6.87	0.0153
BERA	2	0.49492892	0.24746446	2.15	0.1392


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.1151
R-Square 0.554
Adj R-Square 0.4958

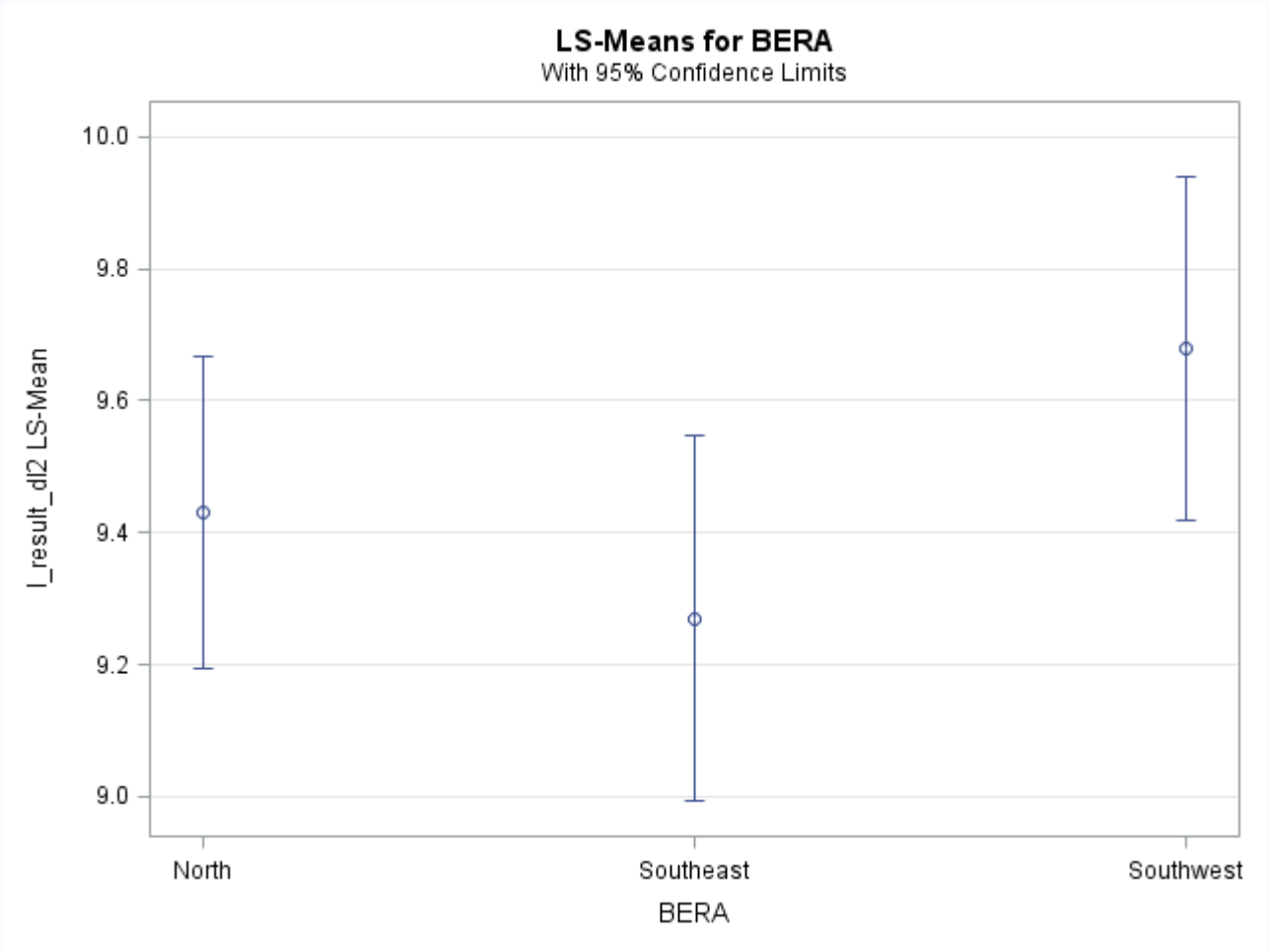
Pesticides Dieldrin
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.43034021	1
Southeast	9.27020326	2
Southwest	9.68027554	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6588	0.3022
2	0.6588		0.1337
3	0.3022	0.1337	


LS-Means for BERA
With 95% Confidence Limits
10.0
9.8
9.6
9.4
9.2
9.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Heptachlor epoxide
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

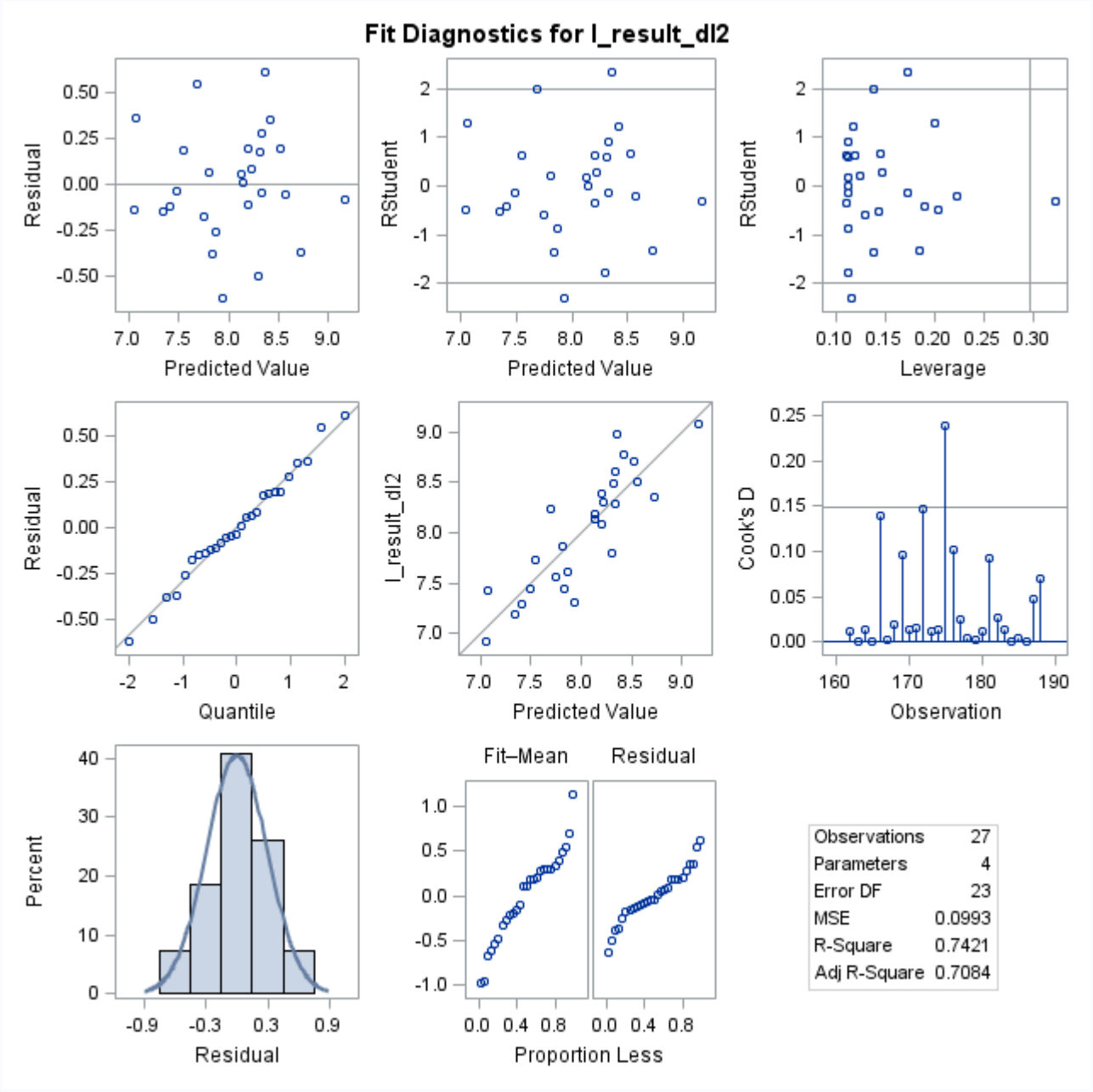
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.56914192	2.18971397	22.06	<.0001
Error	23	2.28335871	0.09927647		
Corrected Total	26	8.85250064			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.742066	3.924941	0.315082	8.027679

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	6.03324844	6.03324844	60.77	<.0001
BERA	2	0.53589348	0.26794674	2.70	0.0885

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	5.59578674	5.59578674	56.37	<.0001
BERA	2	0.53589348	0.26794674	2.70	0.0885


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.0993
R-Square 0.7421
Adj R-Square 0.7084

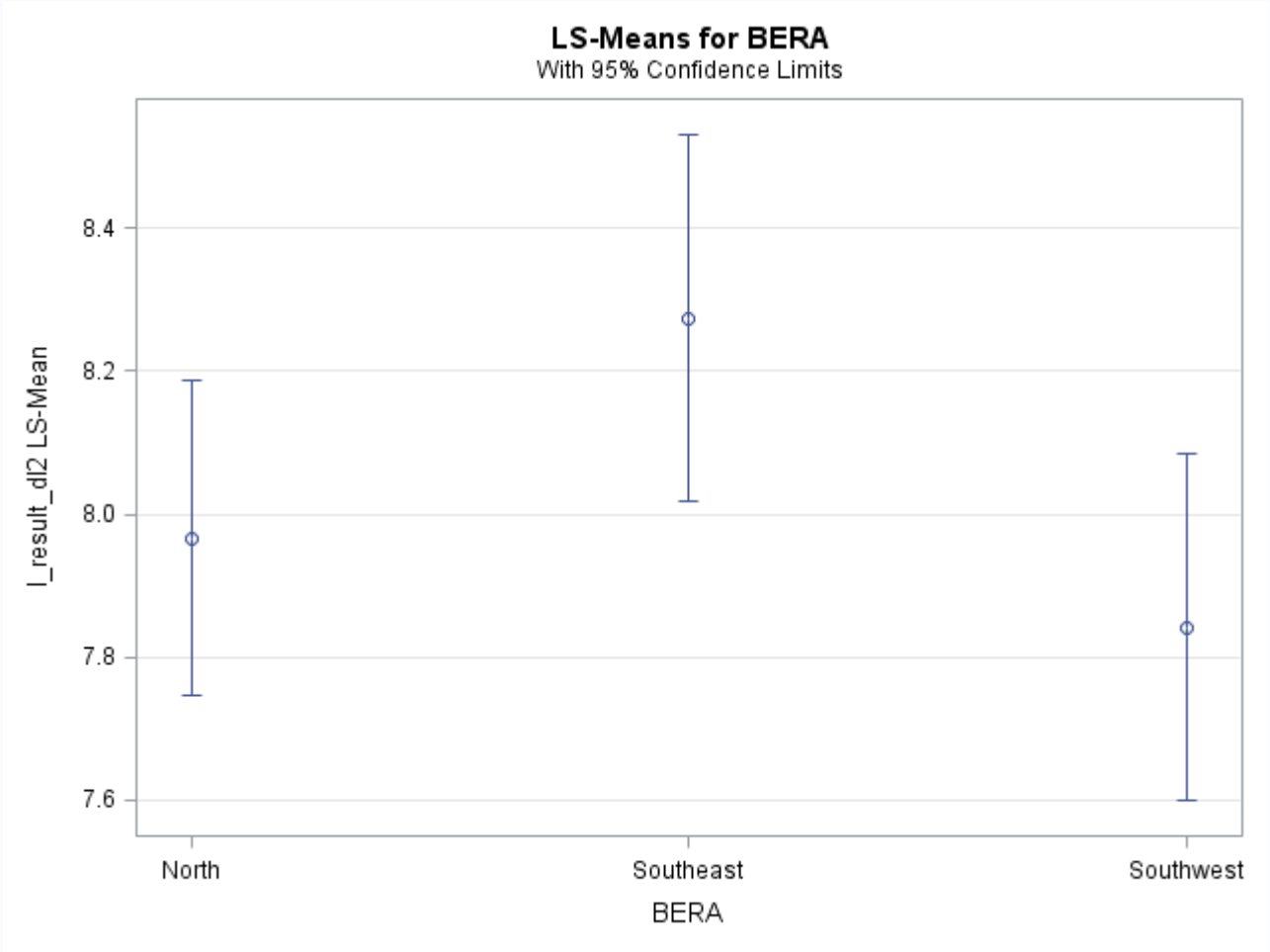
Pesticides Heptachlor epoxide
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.96694597	1
Southeast	8.27439726	2
Southwest	7.84169515	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1866	0.6960
2	0.1866		0.0795
3	0.6960	0.0795	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
8.4
8.2
8.0
7.8
7.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Hexachlorobenzene
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

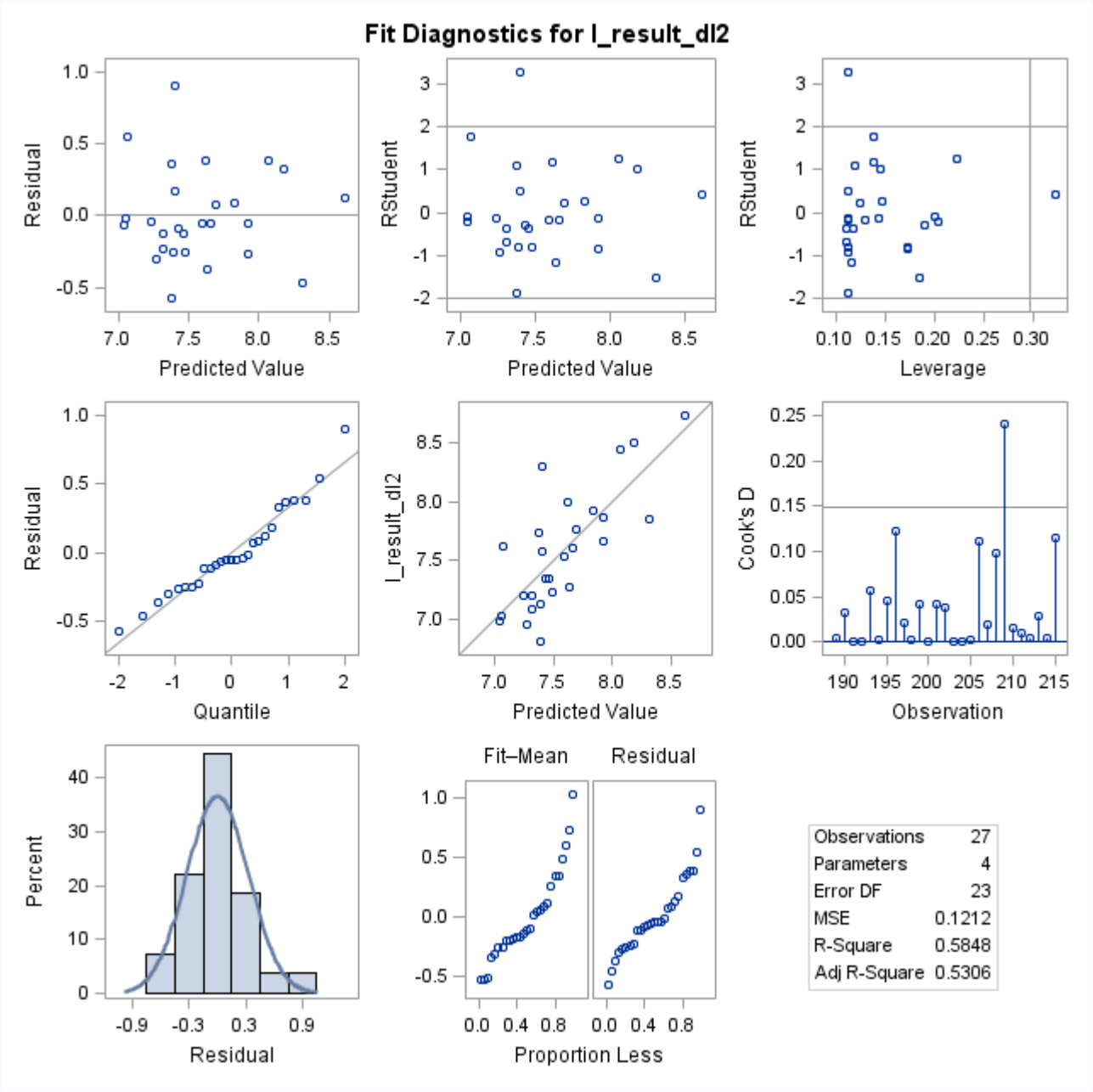
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.92489864	1.30829955	10.80	0.0001
Error	23	2.78685461	0.12116759		
Corrected Total	26	6.71175325			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.584780	4.592527	0.348091	7.579517

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.26641134	1.26641134	10.45	0.0037
BERA	2	2.65848730	1.32924365	10.97	0.0005

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	2.55049100	2.55049100	21.05	0.0001
BERA	2	2.65848730	1.32924365	10.97	0.0005


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.1212
R-Square 0.5848
Adj R-Square 0.5306

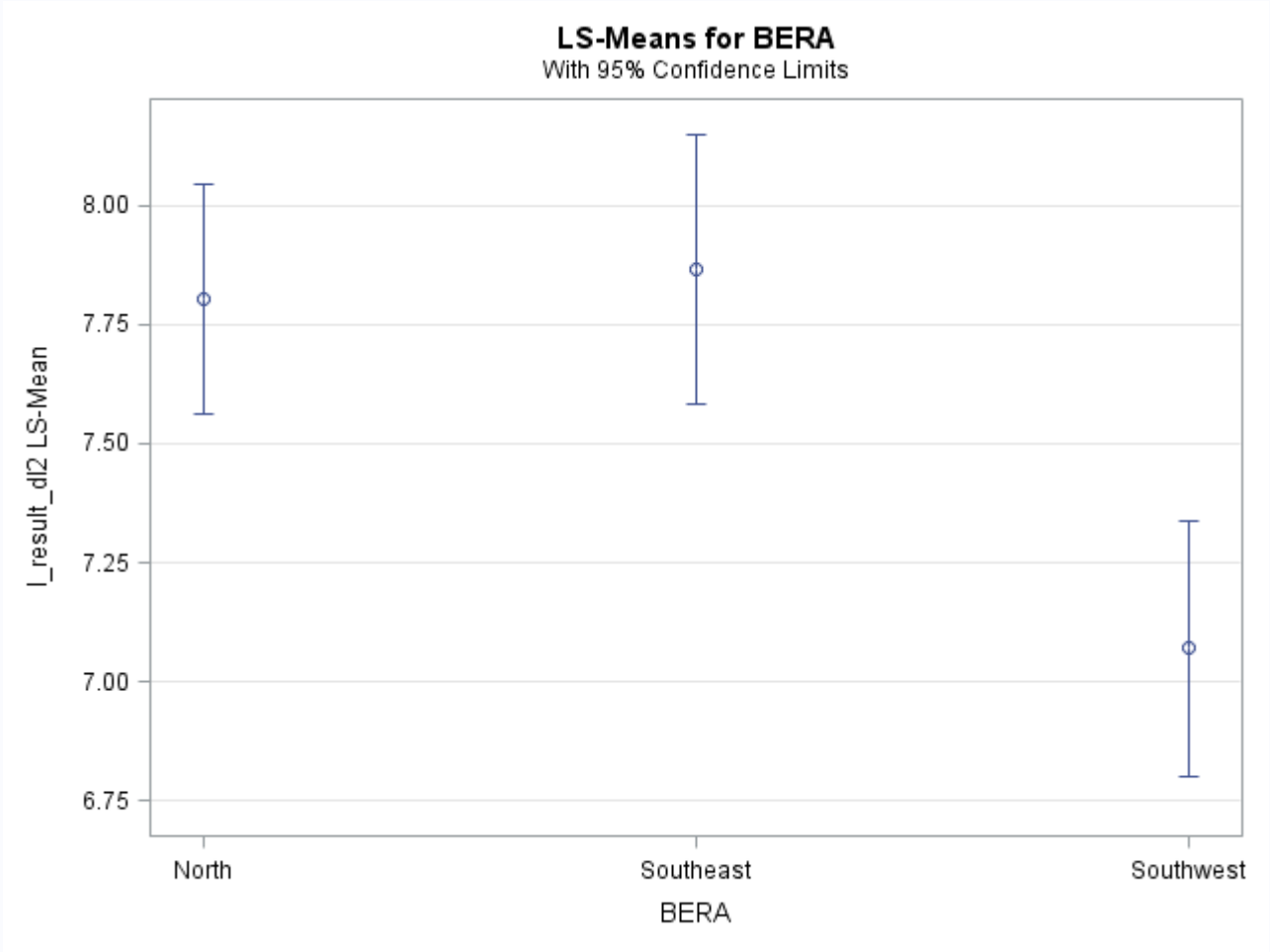
Pesticides Hexachlorobenzene
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.80378926	1
Southeast	7.86567912	2
Southwest	7.06908274	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9416	0.0007
2	0.9416		0.0026
3	0.0007	0.0026	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
8.00
7.75
7.50
7.25
7.00
6.75
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

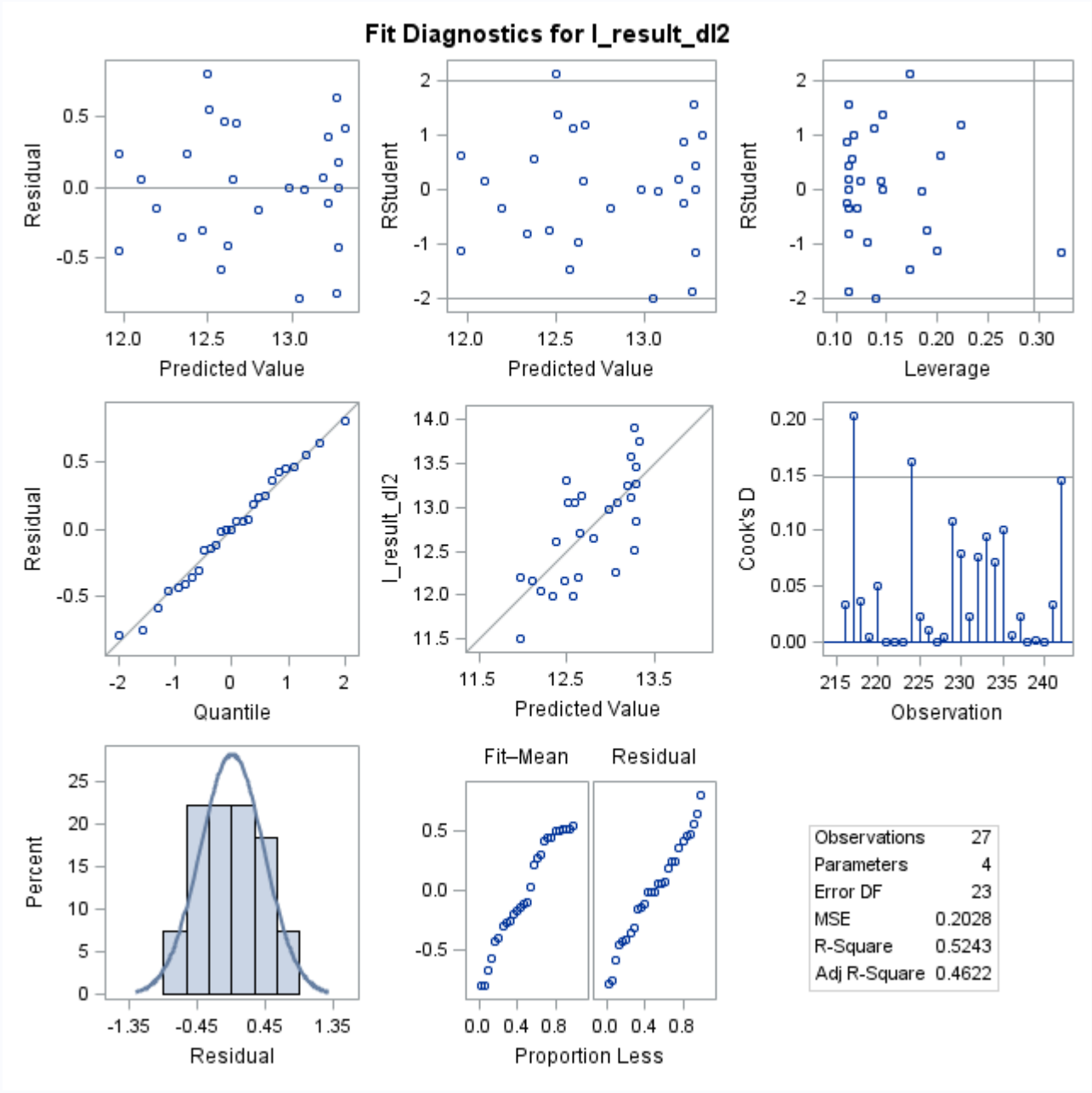
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	5.13913987	1.71304662	8.45	0.0006
Error	23	4.66345902	0.20275909		
Corrected Total	26	9.80259890			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.524263	3.526910	0.450288	12.76720

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	4.33430890	4.33430890	21.38	0.0001
BERA	2	0.80483097	0.40241549	1.98	0.1603

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.21664704	1.21664704	6.00	0.0223
BERA	2	0.80483097	0.40241549	1.98	0.1603


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.2028
R-Square 0.5243
Adj R-Square 0.4622

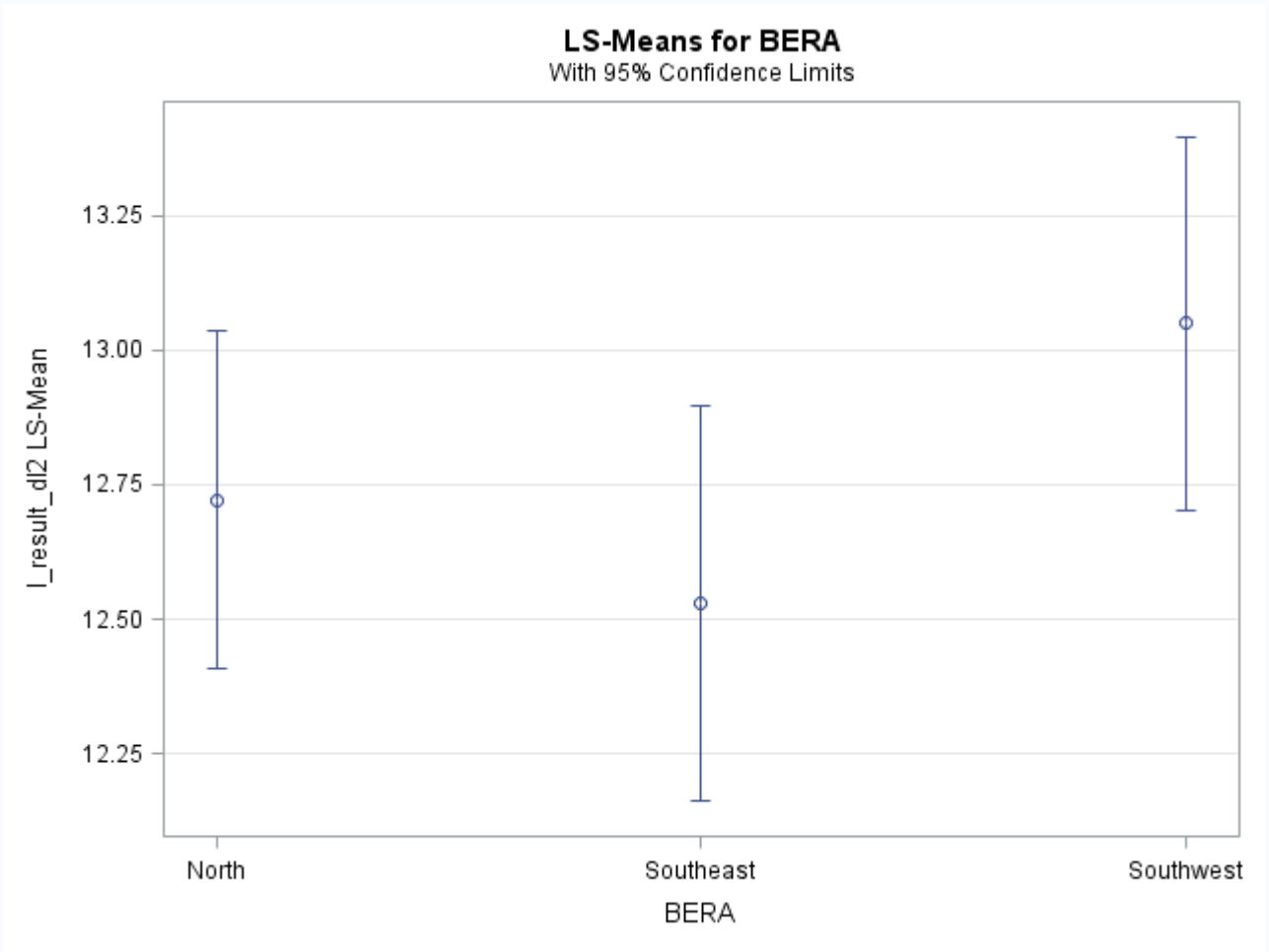
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.7218302	1
Southeast	12.5305901	2
Southwest	13.0491902	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7125	0.3114
2	0.7125		0.1586
3	0.3114	0.1586	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.25
13.00
12.75
12.50
12.25
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

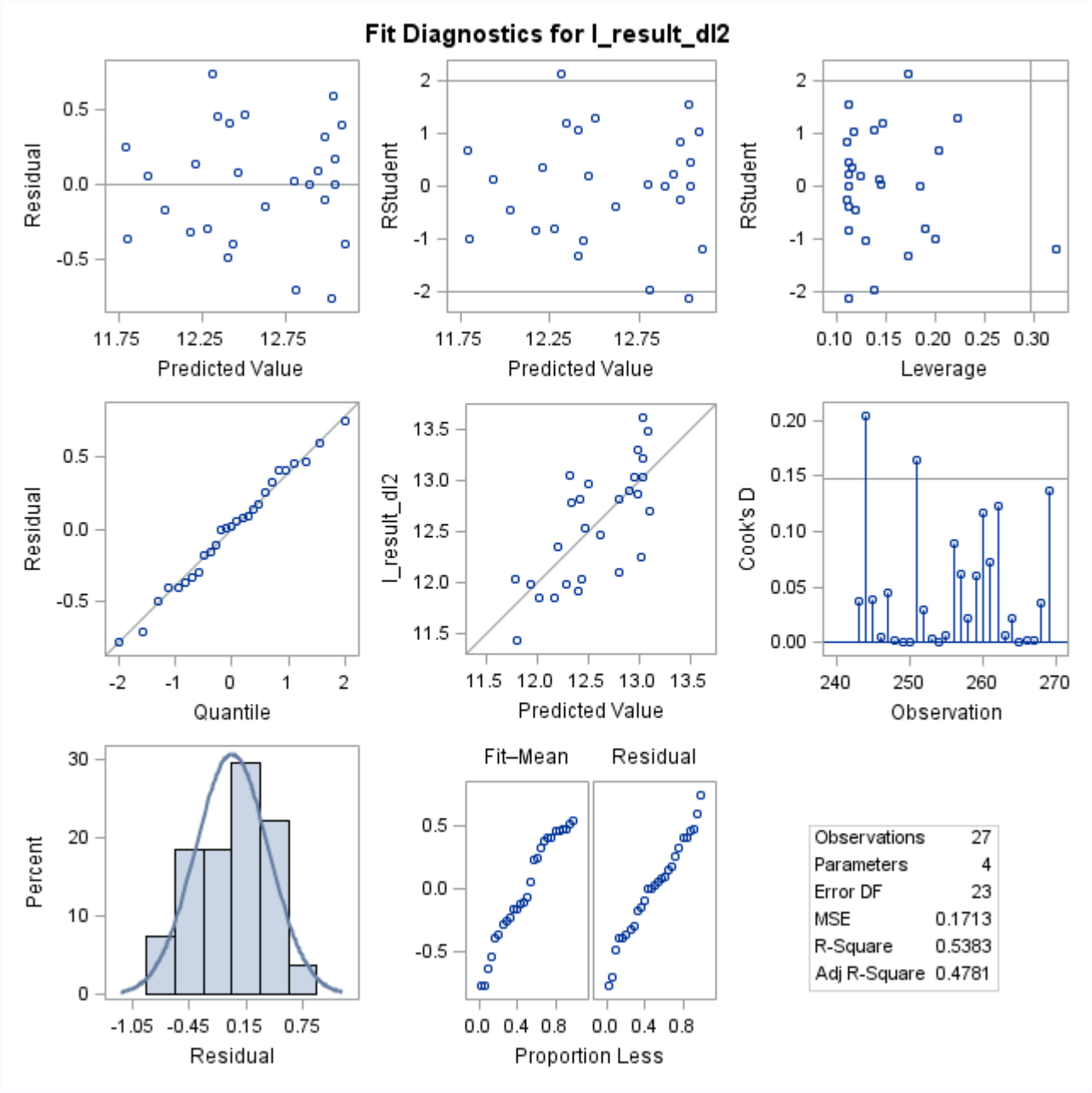
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.59424511	1.53141504	8.94	0.0004
Error	23	3.94053002	0.17132739		
Corrected Total	26	8.53477513			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.538297	3.292112	0.413917	12.57300

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	4.02223297	4.02223297	23.48	<.0001
BERA	2	0.57201214	0.28600607	1.67	0.2104

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.24671537	1.24671537	7.28	0.0129
BERA	2	0.57201214	0.28600607	1.67	0.2104


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.1713
R-Square 0.5383
Adj R-Square 0.4781

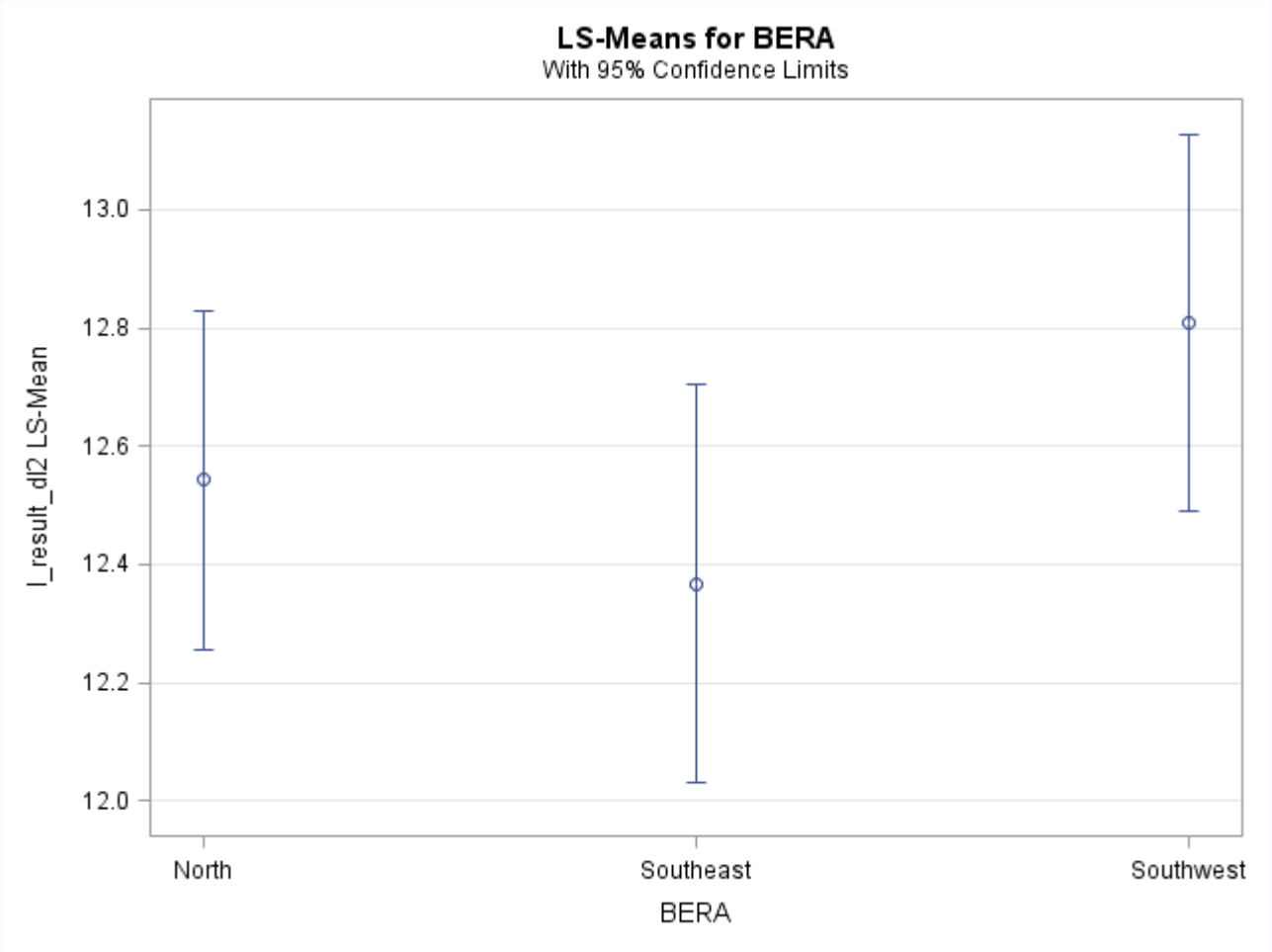
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	12.5422439	1
Southeast	12.3675492	2
Southwest	12.8091989	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7154	0.3951
2	0.7154		0.2022
3	0.3951	0.2022	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.8
12.6
12.4
12.2
12.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 27

Number of Observations Used 27

Pesticides Total alpha + gamma chlordane
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

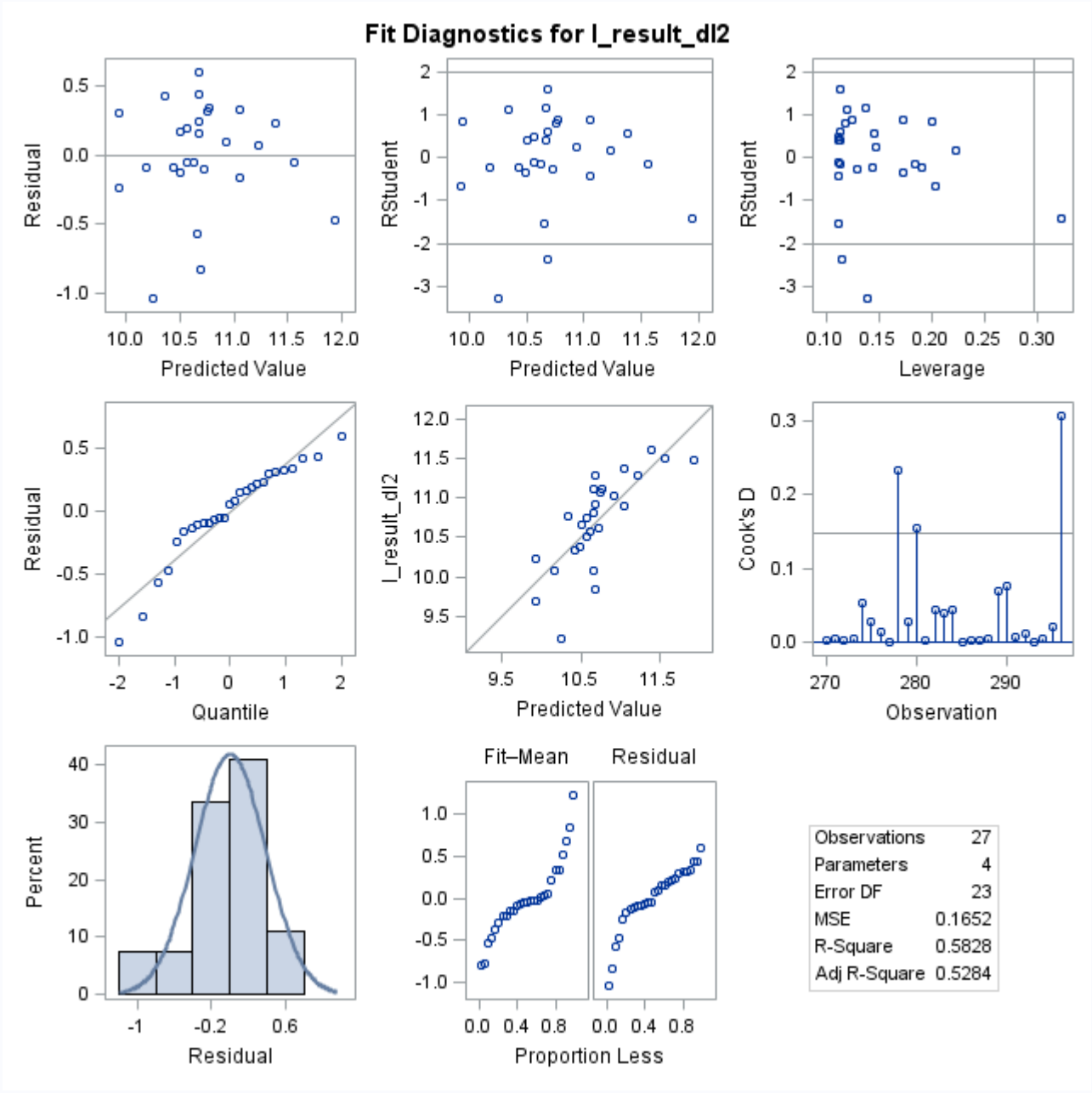
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	5.30866423	1.76955474	10.71	0.0001
Error	23	3.79951696	0.16519639		
Corrected Total	26	9.10818118			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.582846	3.793976	0.406444	10.71287

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	3.17899970	3.17899970	19.24	0.0002
BERA	2	2.12966453	1.06483227	6.45	0.0060

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	4.15385760	4.15385760	25.14	<.0001
BERA	2	2.12966453	1.06483227	6.45	0.0060


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.1652
R-Square 0.5828
Adj R-Square 0.5284

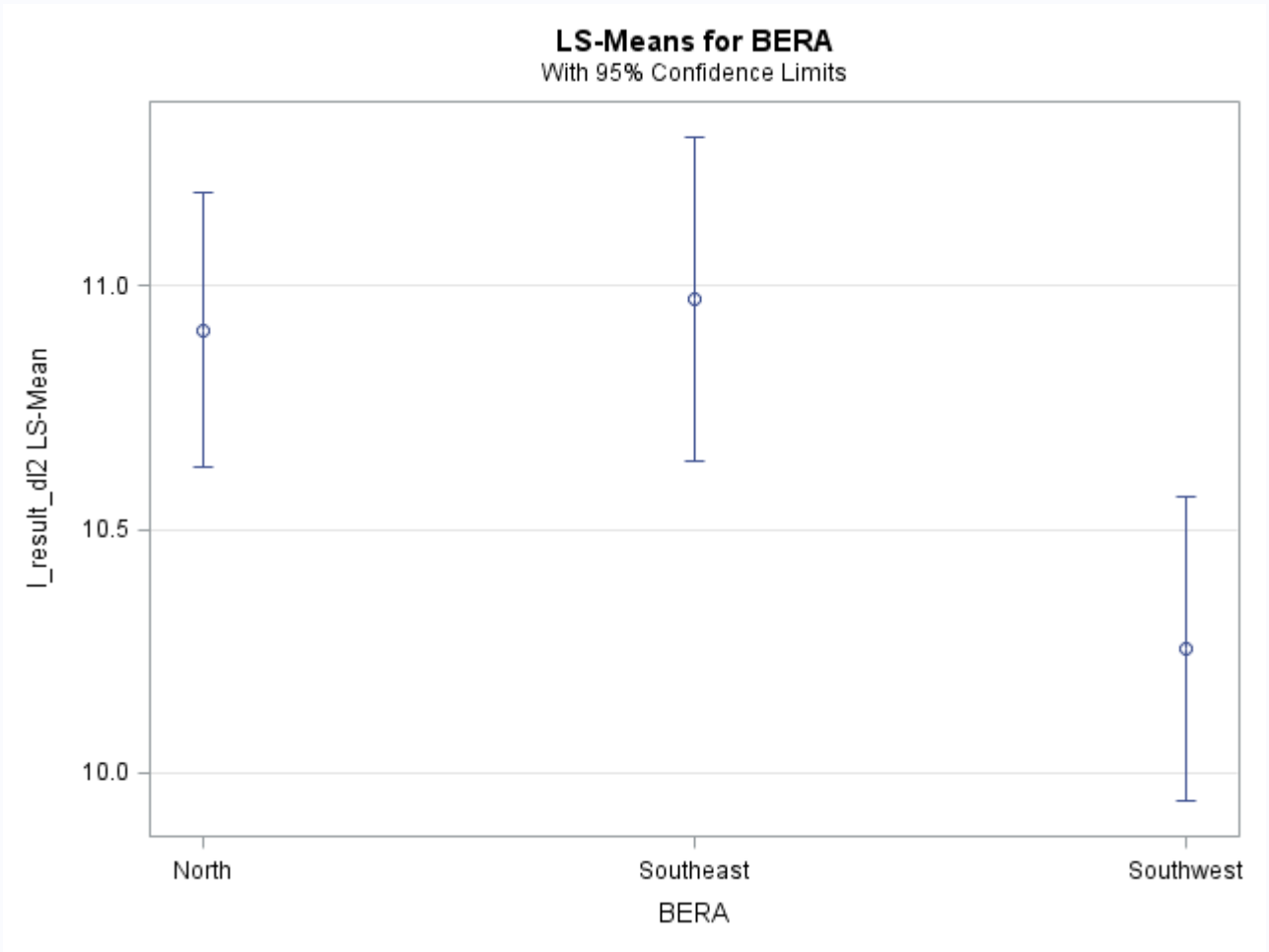
Pesticides Total alpha + gamma chlordane
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	10.9094576	1
Southeast	10.9740825	2
Southwest	10.2550589	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9530	0.0082
2	0.9530		0.0197
3	0.0082	0.0197	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
11.0
10.5
10.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 26

Number of Observations Used 26

Pesticides alpha-BHC
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

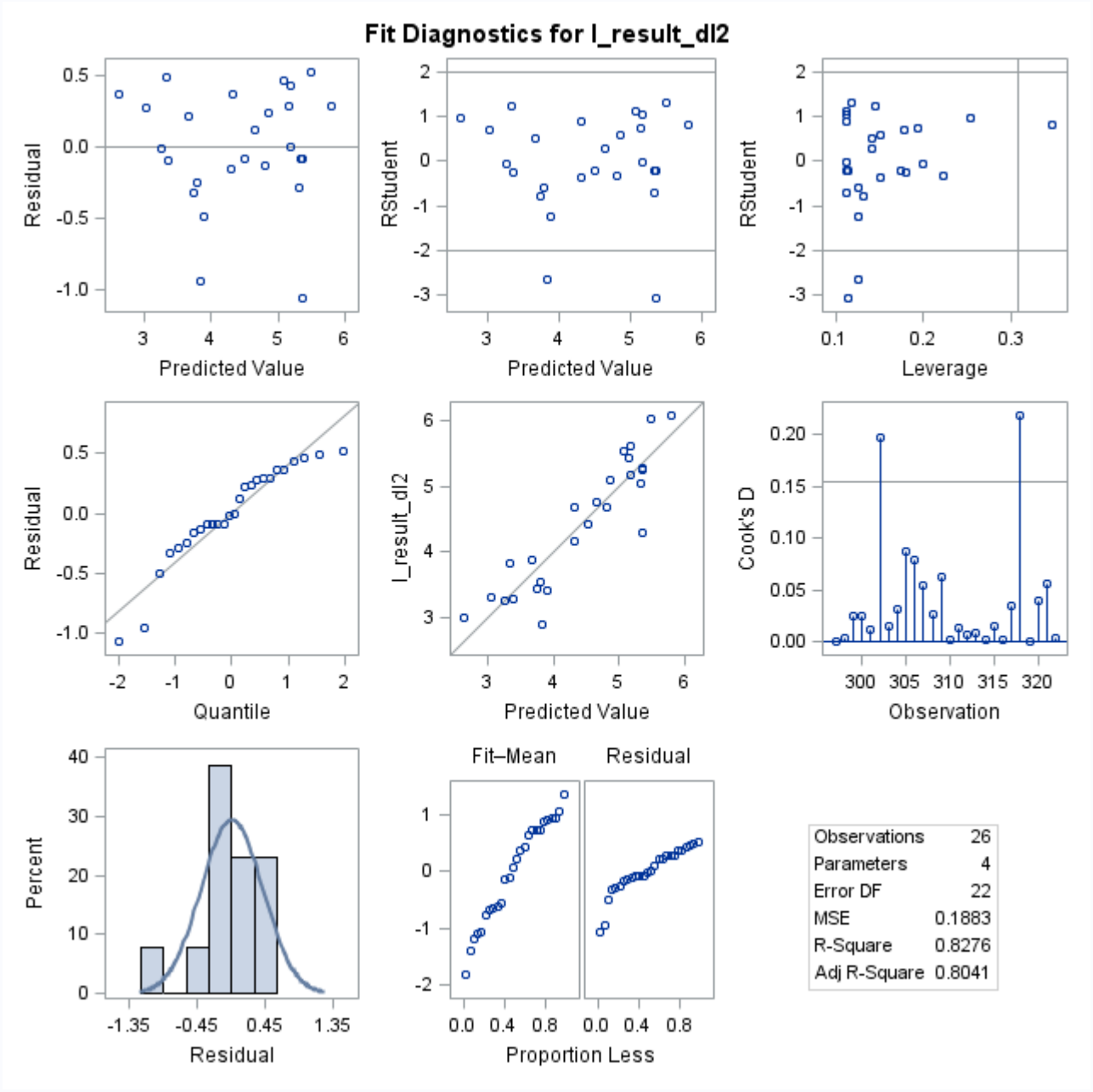
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	19.88735188	6.62911729	35.21	<.0001
Error	22	4.14248804	0.18829491		
Corrected Total	25	24.02983992			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.827611	9.786833	0.433930	4.433810

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	18.37357044	18.37357044	97.58	<.0001
BERA	2	1.51378145	0.75689072	4.02	0.0325

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	10.59301464	10.59301464	56.26	<.0001
BERA	2	1.51378145	0.75689072	4.02	0.0325


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 26
Parameters 4
Error DF 22
MSE 0.1883
R-Square 0.8276
Adj R-Square 0.8041

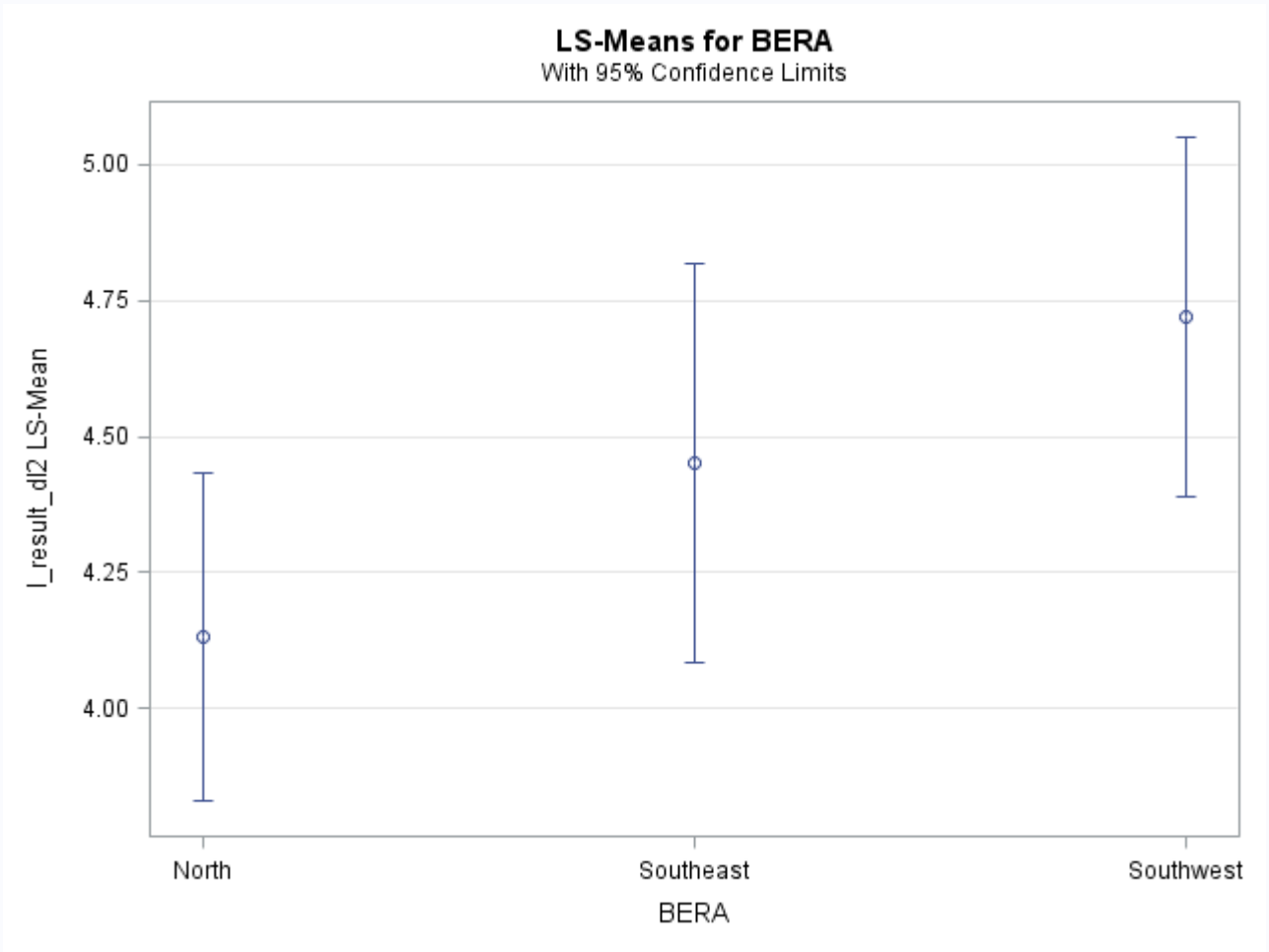
Pesticides alpha-BHC
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=alpha-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.13111684	1
Southeast	4.45163170	2
Southwest	4.72066231	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3726	0.0279
2	0.3726		0.5676
3	0.0279	0.5676	


LS-Means for BERA
With 95% Confidence Limits
5.00
4.75
4.50
4.25
4.00
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	27
Number of Observations Used	27

Pesticides beta-BHC
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

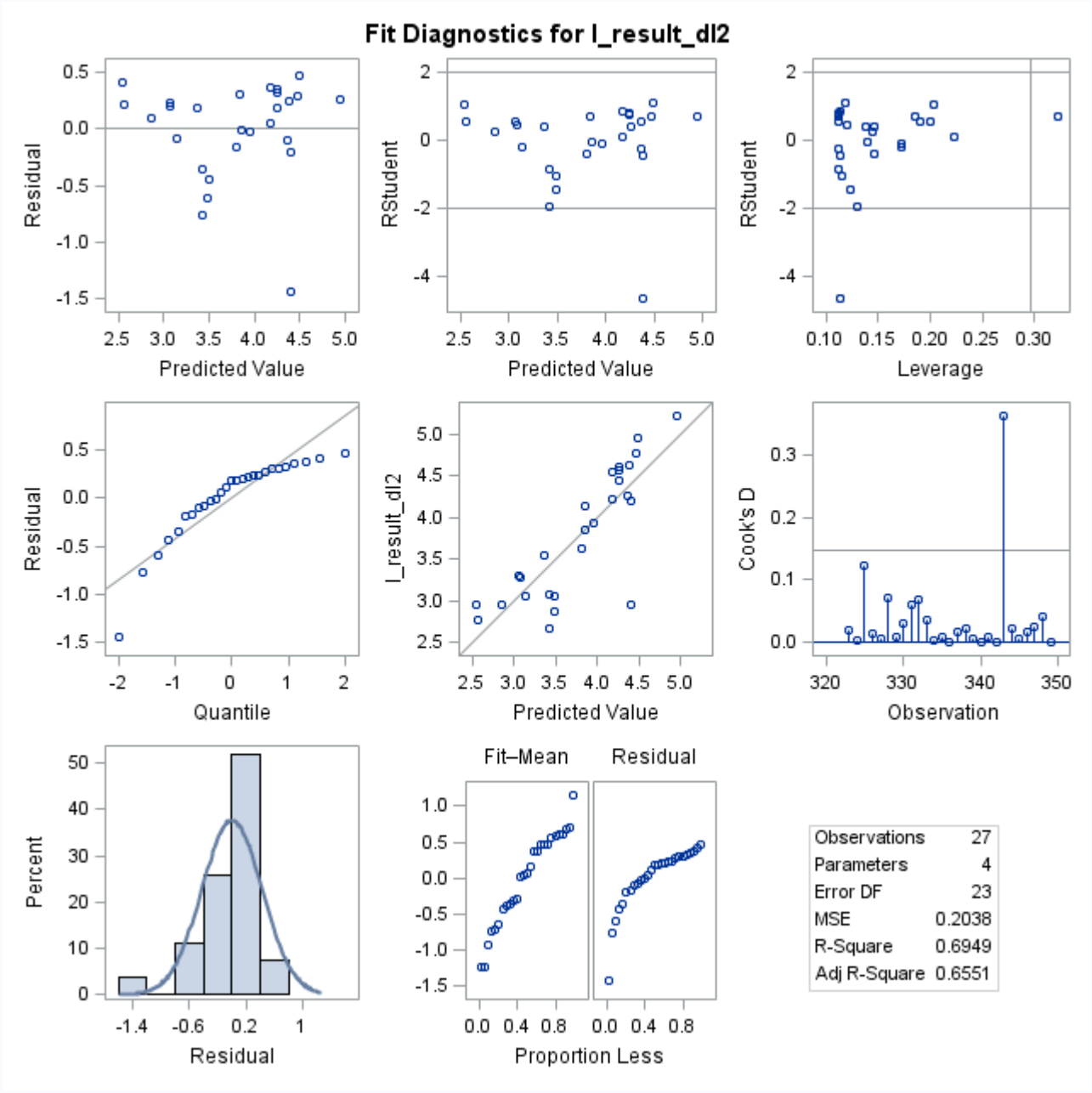
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	10.67313141	3.55771047	17.46	<.0001
Error	23	4.68696177	0.20378095		
Corrected Total	26	15.36009318			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.694861	11.90183	0.451421	3.792871

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	10.43152644	10.43152644	51.19	<.0001
BERA	2	0.24160497	0.12080248	0.59	0.5610

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	6.50664597	6.50664597	31.93	<.0001
BERA	2	0.24160497	0.12080248	0.59	0.5610


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.2038
R-Square 0.6949
Adj R-Square 0.6551

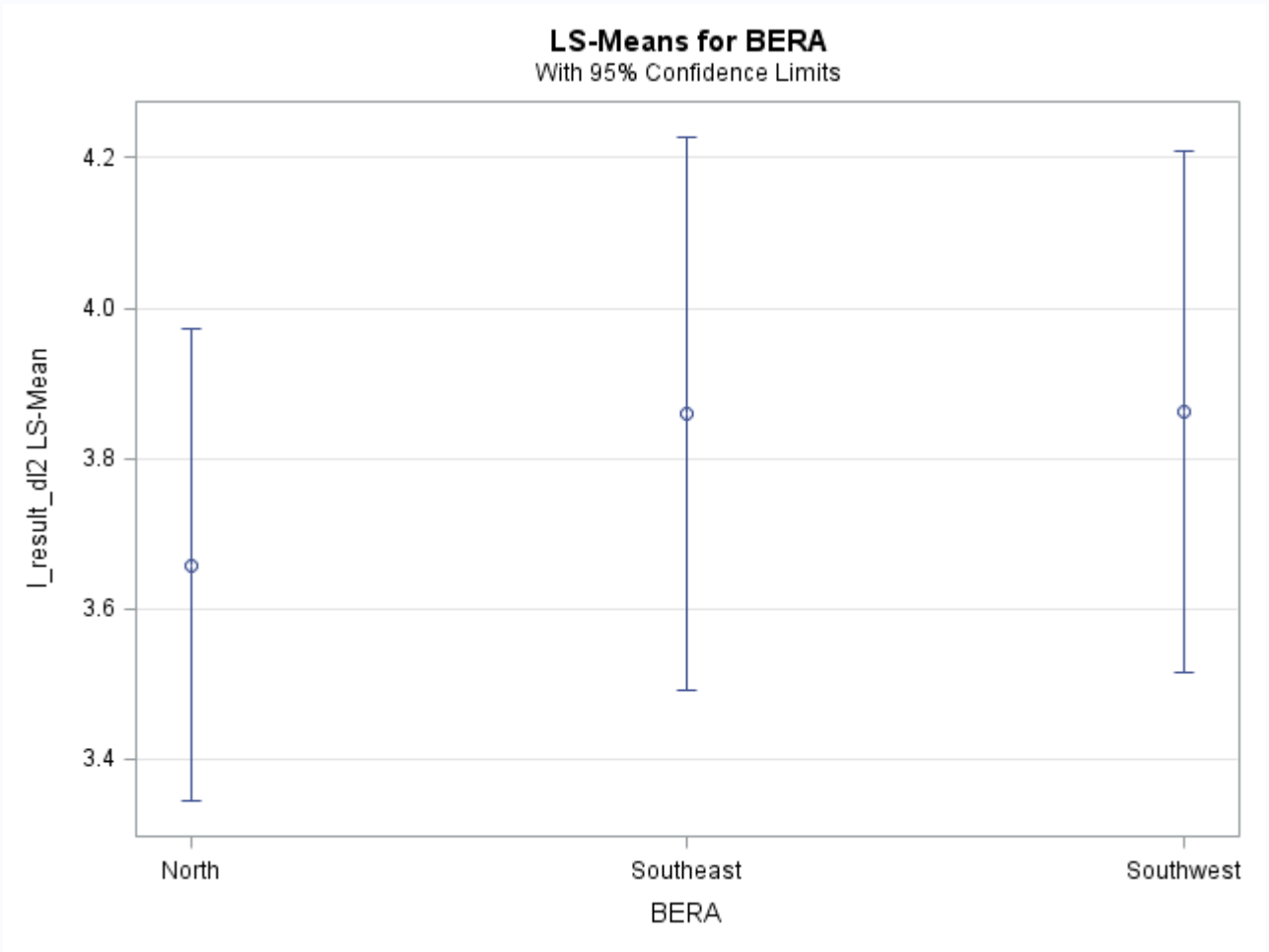
Pesticides beta-BHC
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.65801608	1
Southeast	3.85922700	2
Southwest	3.86136962	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6888	0.6293
2	0.6888		1.0000
3	0.6293	1.0000	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.2
4.0
3.8
3.6
3.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	27
Number of Observations Used	27

Pesticides cis-Nonachlor
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

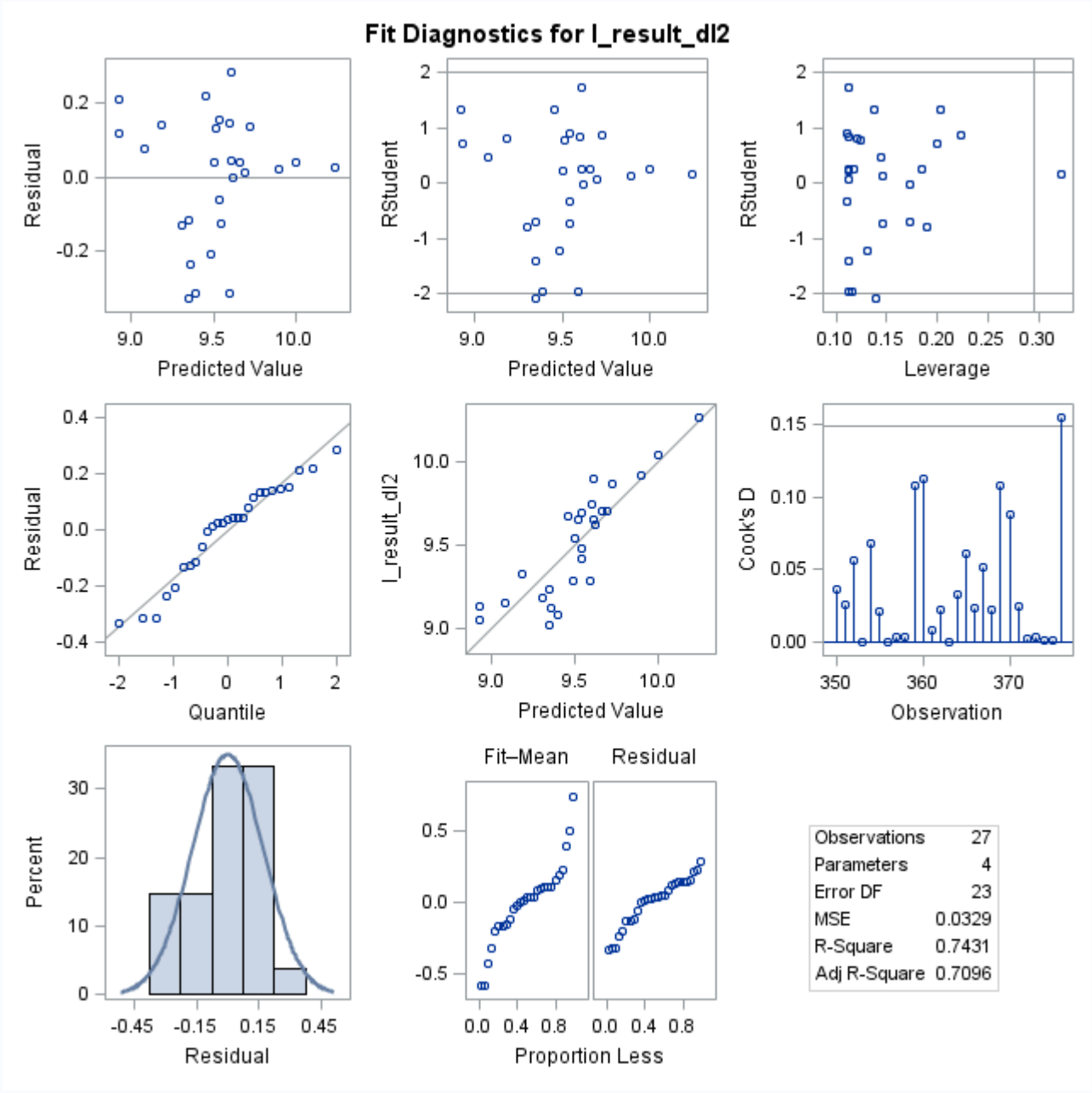
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.19120610	0.73040203	22.18	<.0001
Error	23	0.75754133	0.03293658		
Corrected Total	26	2.94874743			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.743097	1.909005	0.181484	9.506754

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.90646910	1.90646910	57.88	<.0001
BERA	2	0.28473700	0.14236850	4.32	0.0255

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.59223972	1.59223972	48.34	<.0001
BERA	2	0.28473700	0.14236850	4.32	0.0255


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.0329
R-Square 0.7431
Adj R-Square 0.7096

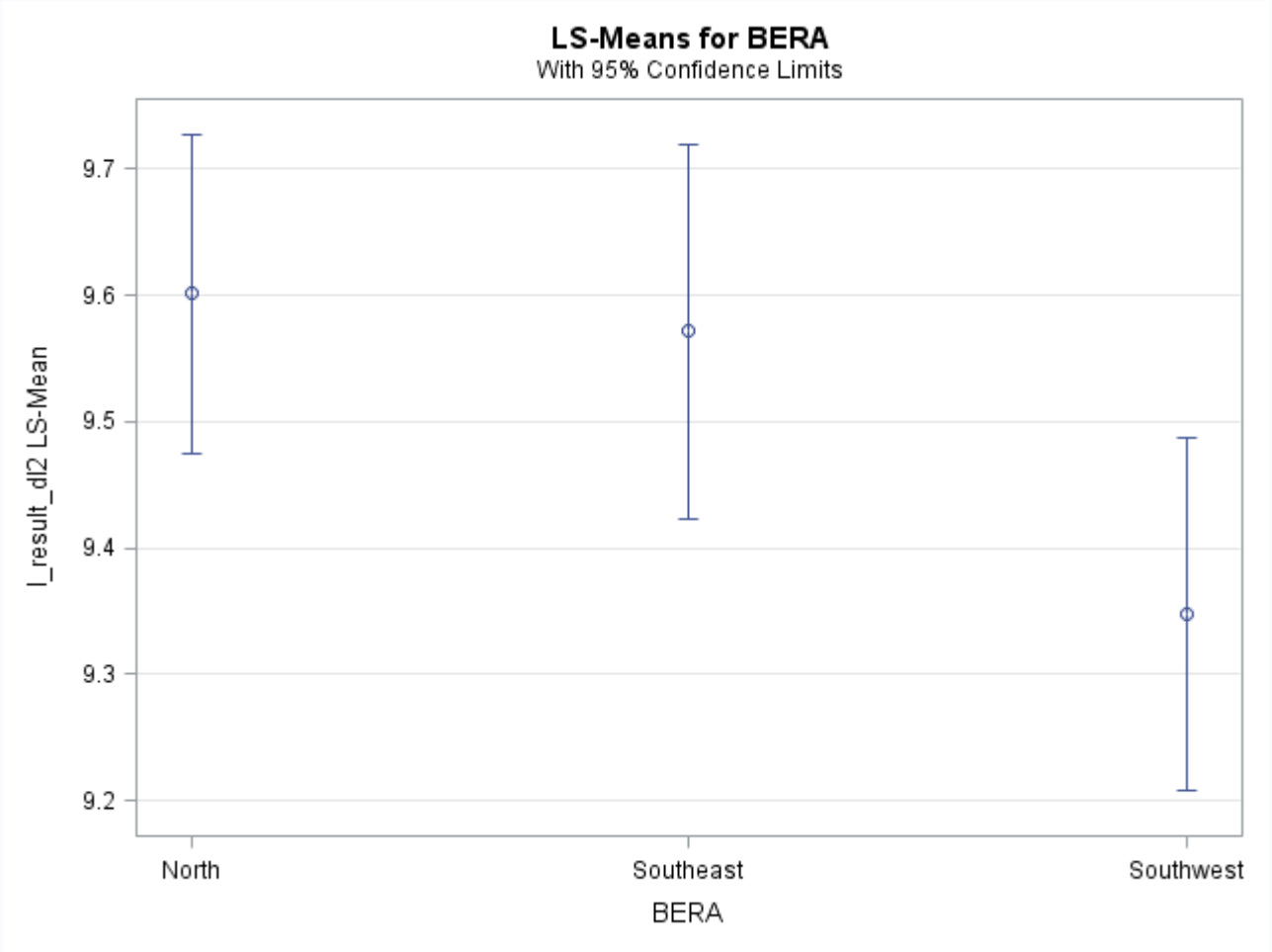
Pesticides cis-Nonachlor
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.60120649	1
Southeast	9.57152438	2
Southwest	9.34752998	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9503	0.0224
2	0.9503		0.1238
3	0.0224	0.1238	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.7
9.6
9.5
9.4
9.3
9.2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	27
Number of Observations Used	27

PAHs Total LMW PAHs
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

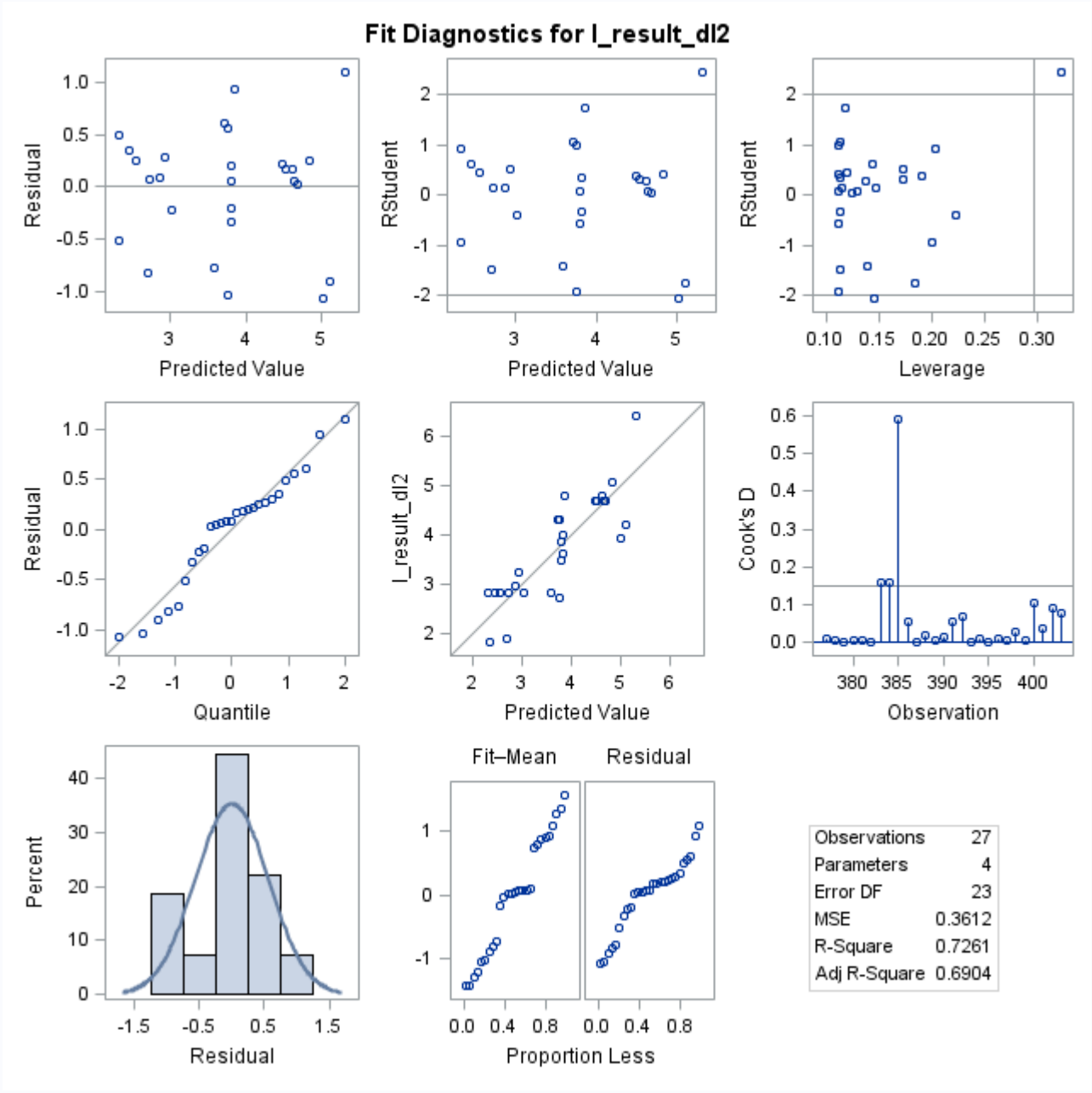
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	22.02720276	7.34240092	20.33	<.0001
Error	23	8.30825052	0.36122828		
Corrected Total	26	30.33545328			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.726121	16.08058	0.601023	3.737568

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	8.03901300	8.03901300	22.25	<.0001
BERA	2	13.98818976	6.99409488	19.36	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.24110048	1.24110048	3.44	0.0767
BERA	2	13.98818976	6.99409488	19.36	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.3612
R-Square 0.7261
Adj R-Square 0.6904

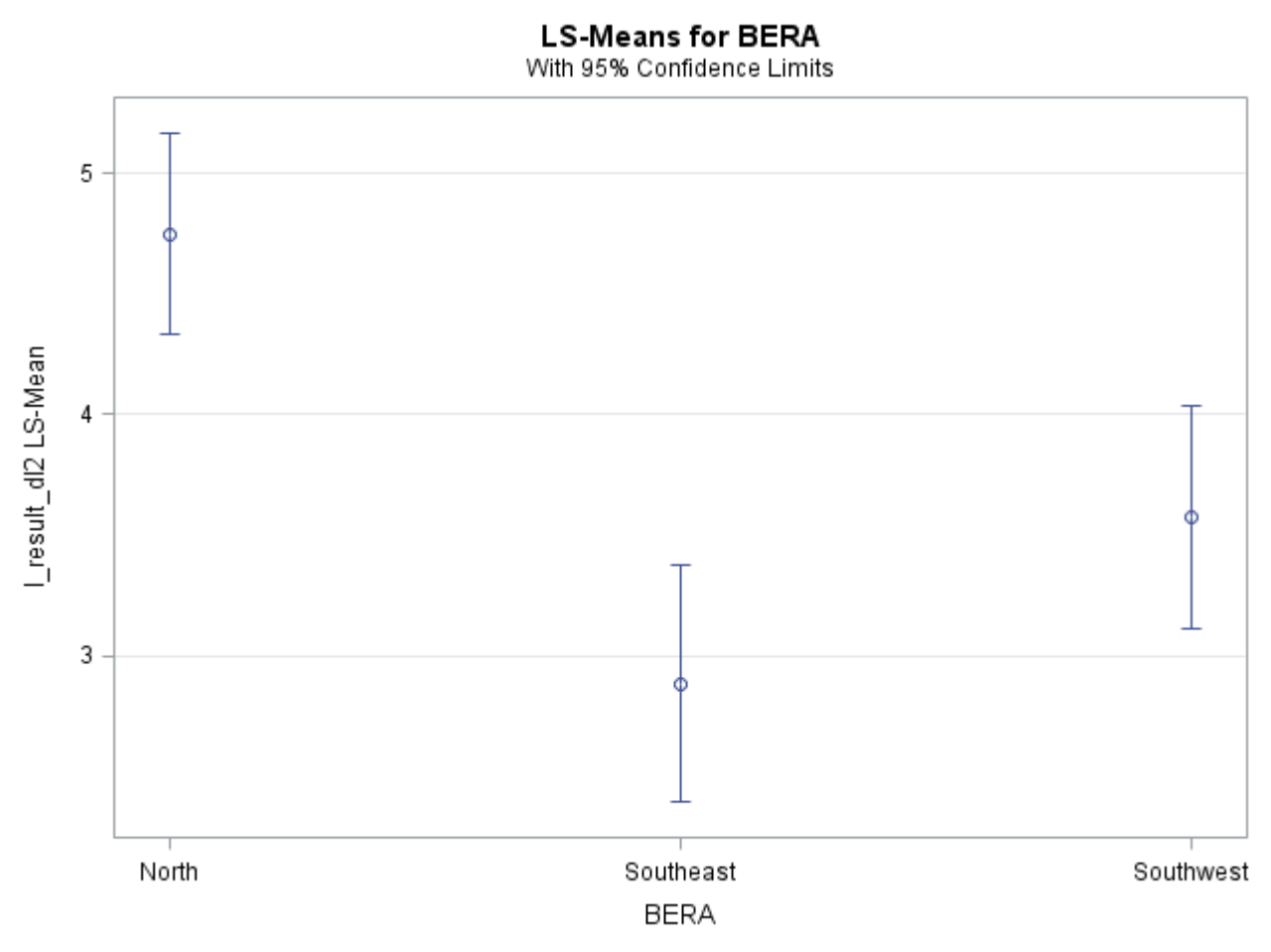
PAHs Total LMW PAHs
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.74824848	1
Southeast	2.88654625	2
Southwest	3.57790796	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		<.0001	0.0015
2	<.0001		0.1593
3	0.0015	0.1593	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5
4
3
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read	27
Number of Observations Used	27

PAHs Total PAH

NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

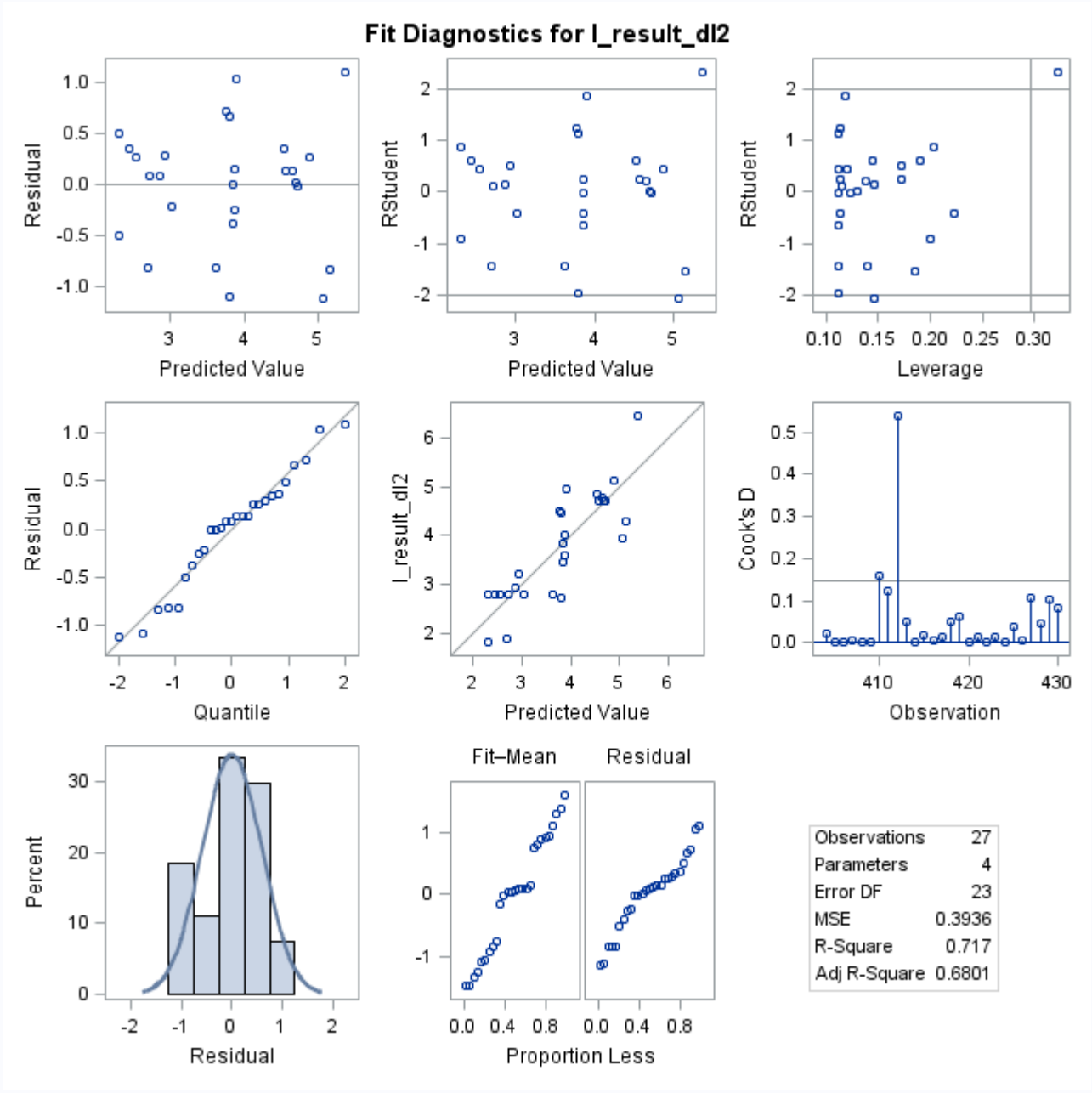
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	22.93752966	7.64584322	19.43	<.0001
Error	23	9.05272959	0.39359694		
Corrected Total	26	31.99025925			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.717016	16.63984	0.627373	3.770307

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	8.53677337	8.53677337	21.69	0.0001
BERA	2	14.40075629	7.20037814	18.29	<.0001

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.26989544	1.26989544	3.23	0.0856
BERA	2	14.40075629	7.20037814	18.29	<.0001


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 27
Parameters 4
Error DF 23
MSE 0.3936
R-Square 0.717
Adj R-Square 0.6801

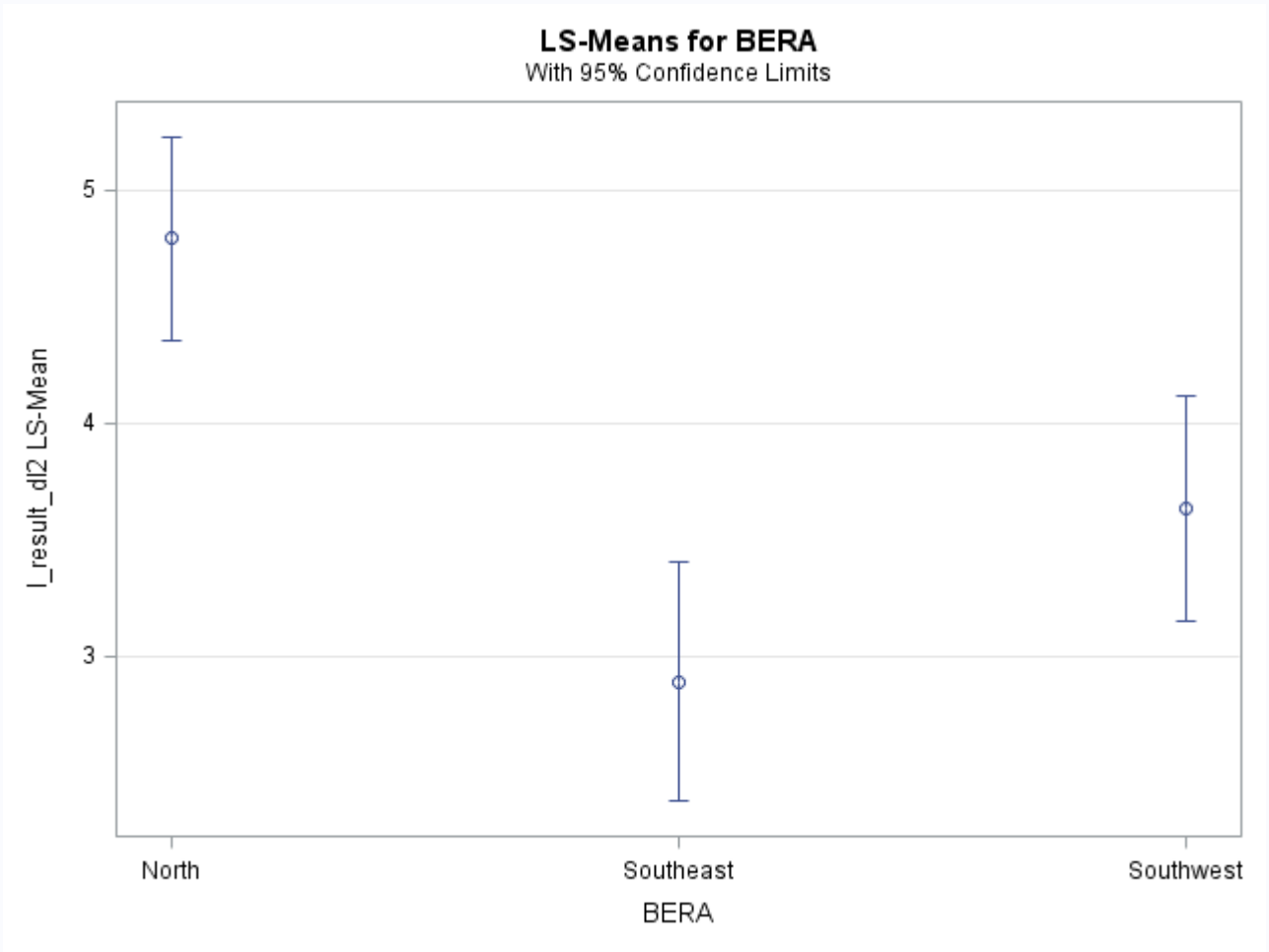
PAHs Total PAH
NBSA Whole Body White perch ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	4.79174466	1
Southeast	2.88926150	2
Southwest	3.62991588	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		<.0001	0.0025
2	<.0001		0.1456
3	0.0025	0.1456	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5
4
3
North
Southeast
Southwest
BERA

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

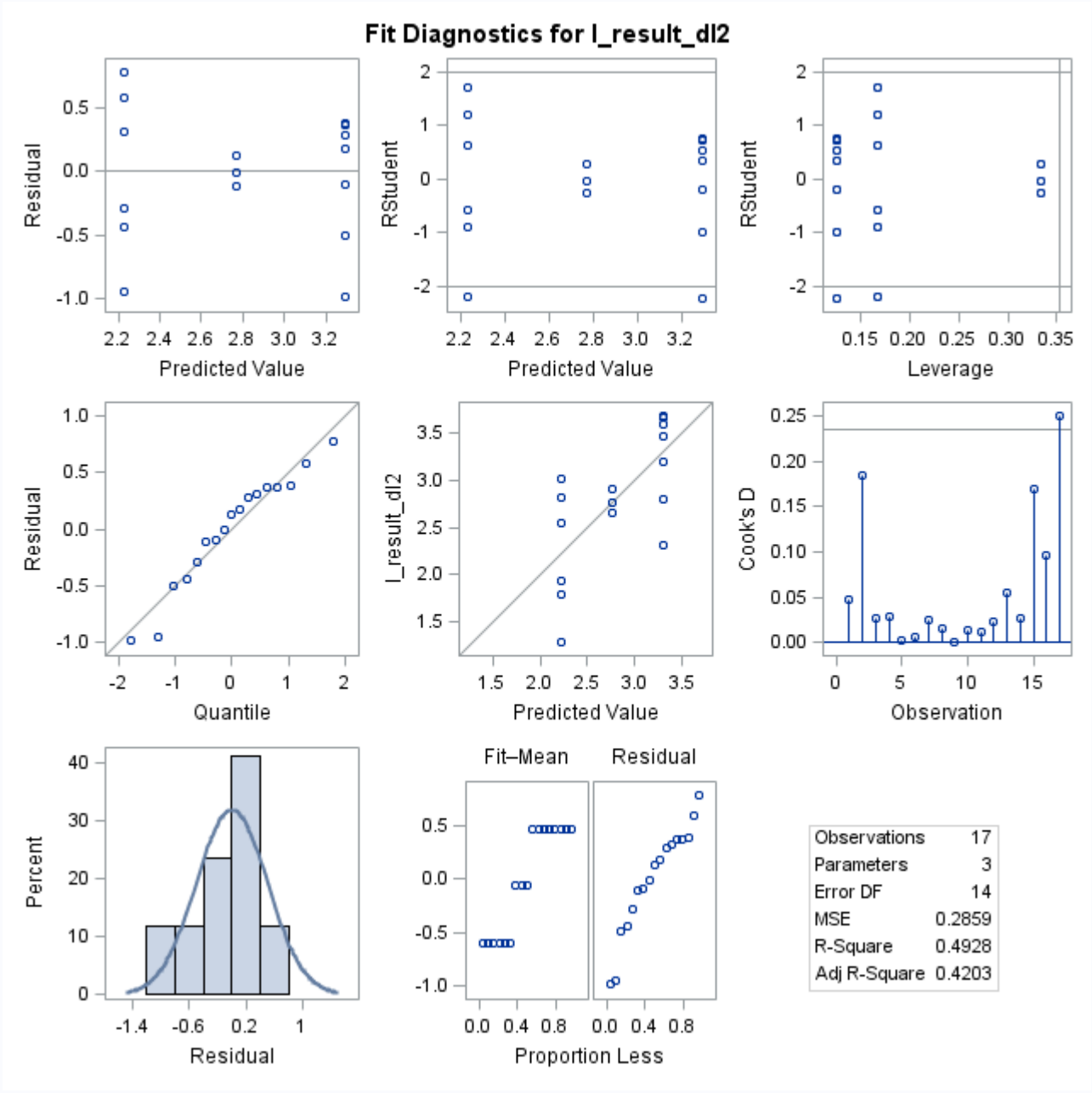
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.88793358	1.94396679	6.80	0.0086
Error	14	4.00203414	0.28585958		
Corrected Total	16	7.88996772			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.492769	18.91780	0.534658	2.826218

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.88793358	1.94396679	6.80	0.0086

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.88793358	1.94396679	6.80	0.0086


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.2859
R-Square 0.4928
Adj R-Square 0.4203

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2625	0.1313	1.53	0.2507
Error	14	1.2014	0.0858		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	5.73	0.0255
Error	8.7709		

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	3.29402112	0.50078889
Southeast	**3**	2.76972128	0.12162611
Southwest	**6**	2.23072942	0.66587112

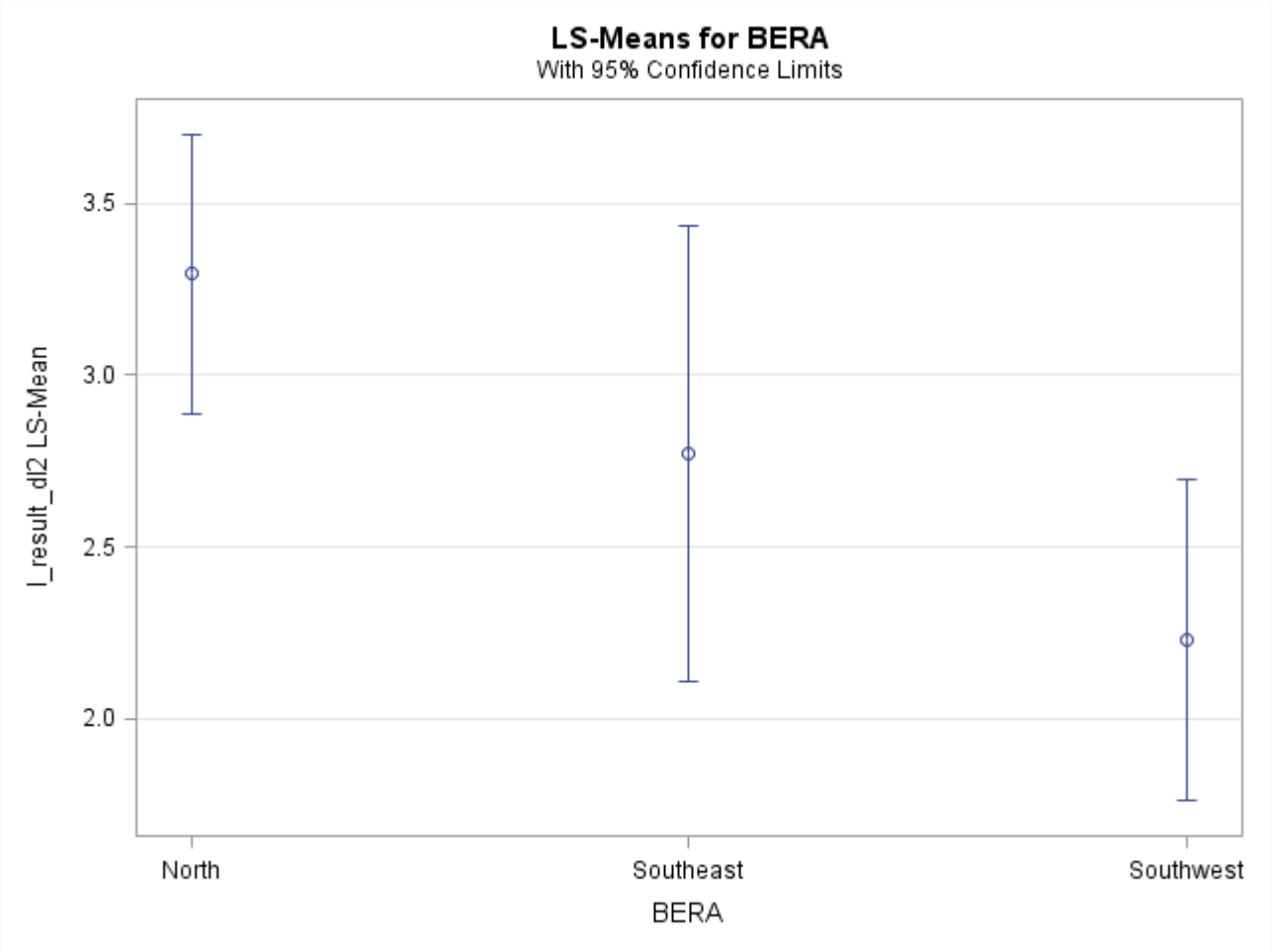
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.29402112	1
Southeast	2.76972128	2
Southwest	2.23072942	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3443	0.0065
2	0.3443		0.3551
3	0.0065	0.3551	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.5
3.0
2.5
2.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

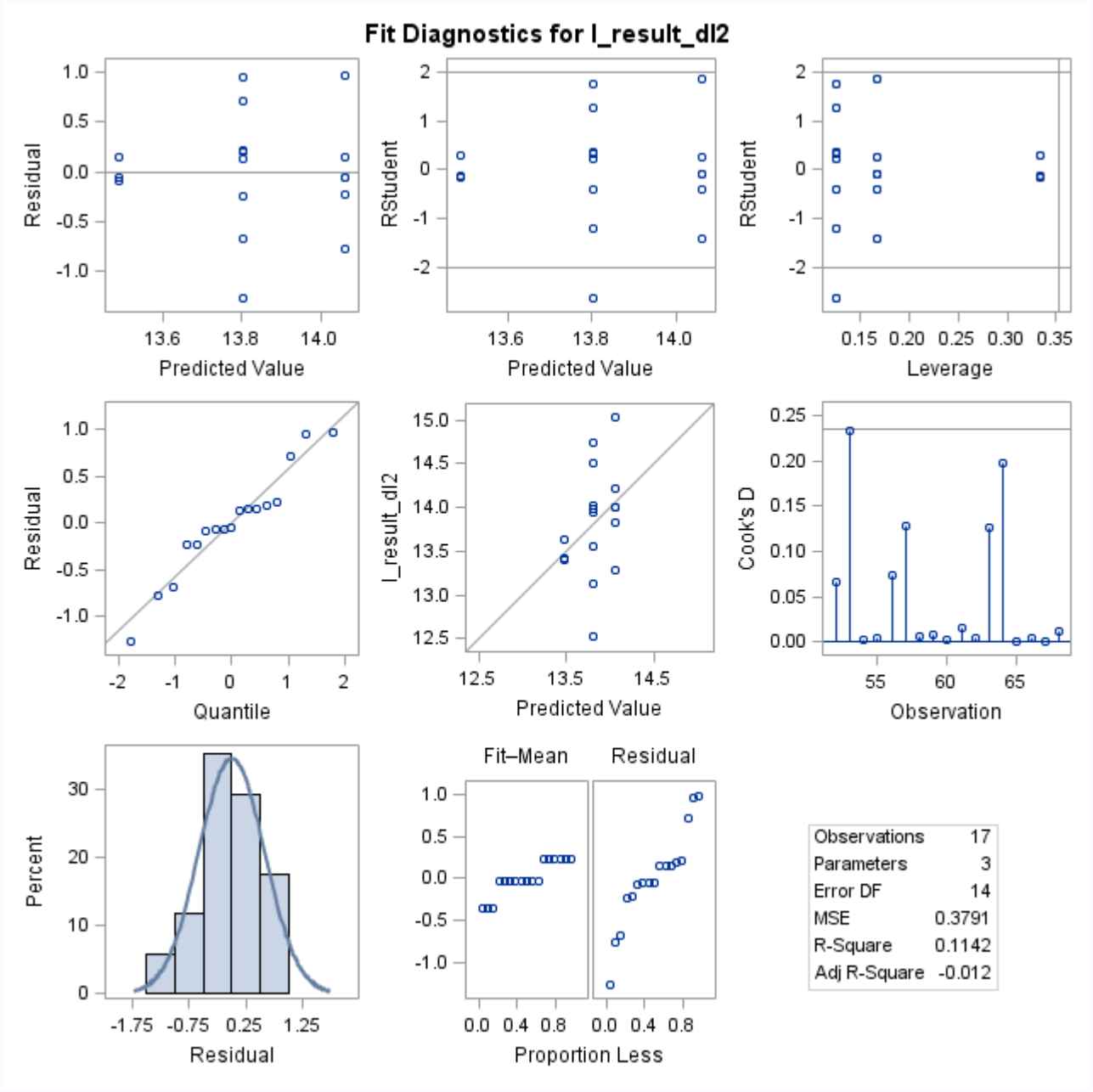
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.68425120	0.34212560	0.90	0.4279
Error	14	5.30781127	0.37912938		
Corrected Total	16	5.99206248			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.114193	4.449717	0.615735	13.83762

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.68425120	0.34212560	0.90	0.4279

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.68425120	0.34212560	0.90	0.4279


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.3791
R-Square 0.1142
Adj R-Square -0.012

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.4497	0.2249	1.02	0.3843
Error	14	3.0719	0.2194		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	3.02	0.0998
Error	8.8497		

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified) result_unit=ng/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	13.8009579	0.72272759
Southeast	**3**	13.4860897	0.13258712
Southwest	**6**	14.0622596	0.56856071

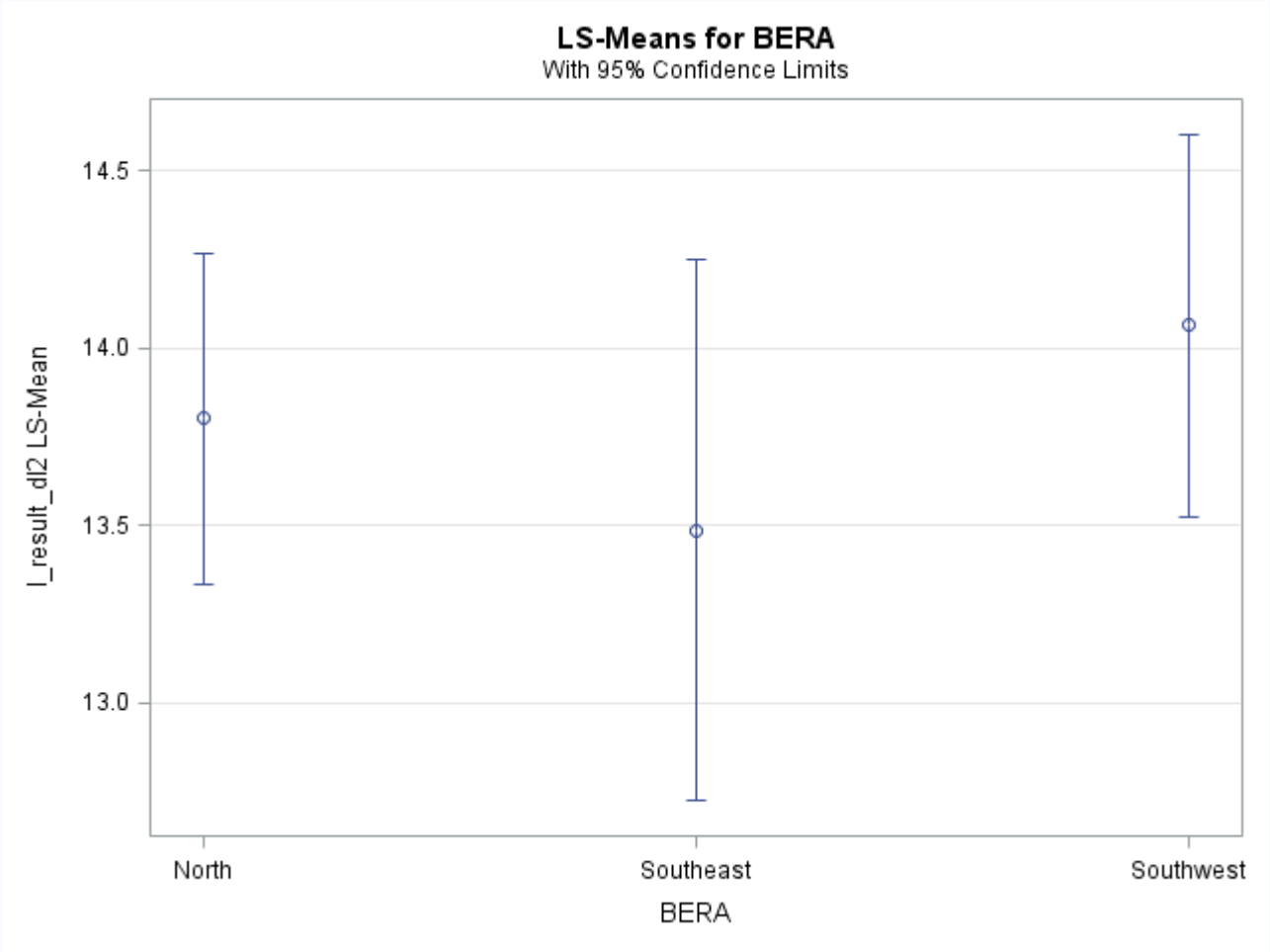
PCBs Total PCBs congener (209 specified)
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	13.8009579	1
Southeast	13.4860897	2
Southwest	14.0622596	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7354	0.7175
2	0.7354		0.4060
3	0.7175	0.4060	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
14.5
14.0
13.5
13.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Dieldrin
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

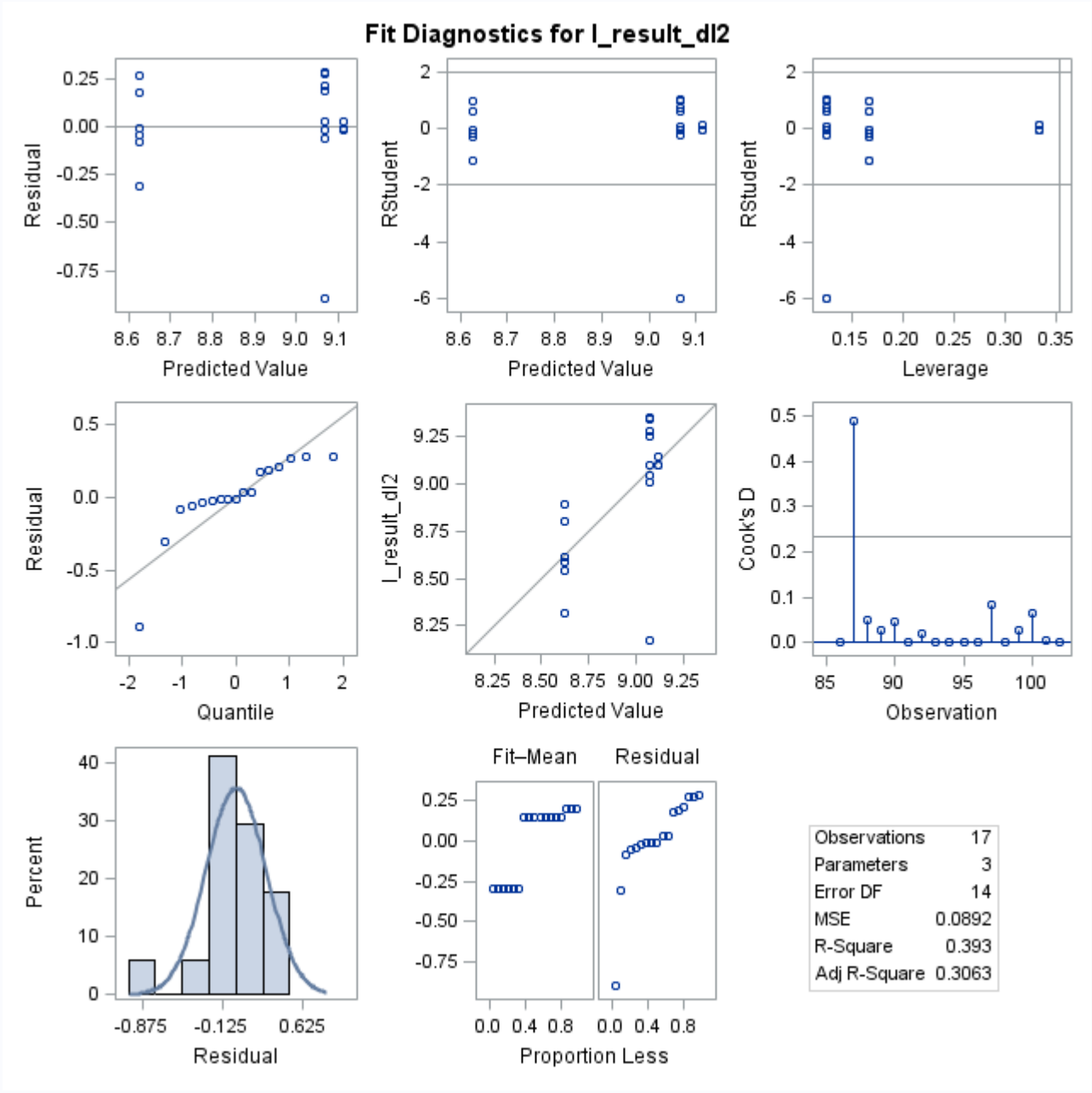
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.80877695	0.40438848	4.53	0.0303
Error	14	1.24898617	0.08921330		
Corrected Total	16	2.05776312			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.393037	3.348881	0.298686	8.918977

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.80877695	0.40438848	4.53	0.0303

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.80877695	0.40438848	4.53	0.0303


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.0892
R-Square 0.393
Adj R-Square 0.3063

Pesticides Dieldrin
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0510	0.0255	0.67	0.5283
Error	14	0.5340	0.0381		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	15.64	0.0017
Error	8.0668		

Pesticides Dieldrin
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	9.06712451	0.38576077
Southeast	**3**	9.11291018	0.02349589
Southwest	**6**	8.62448160	0.20307756

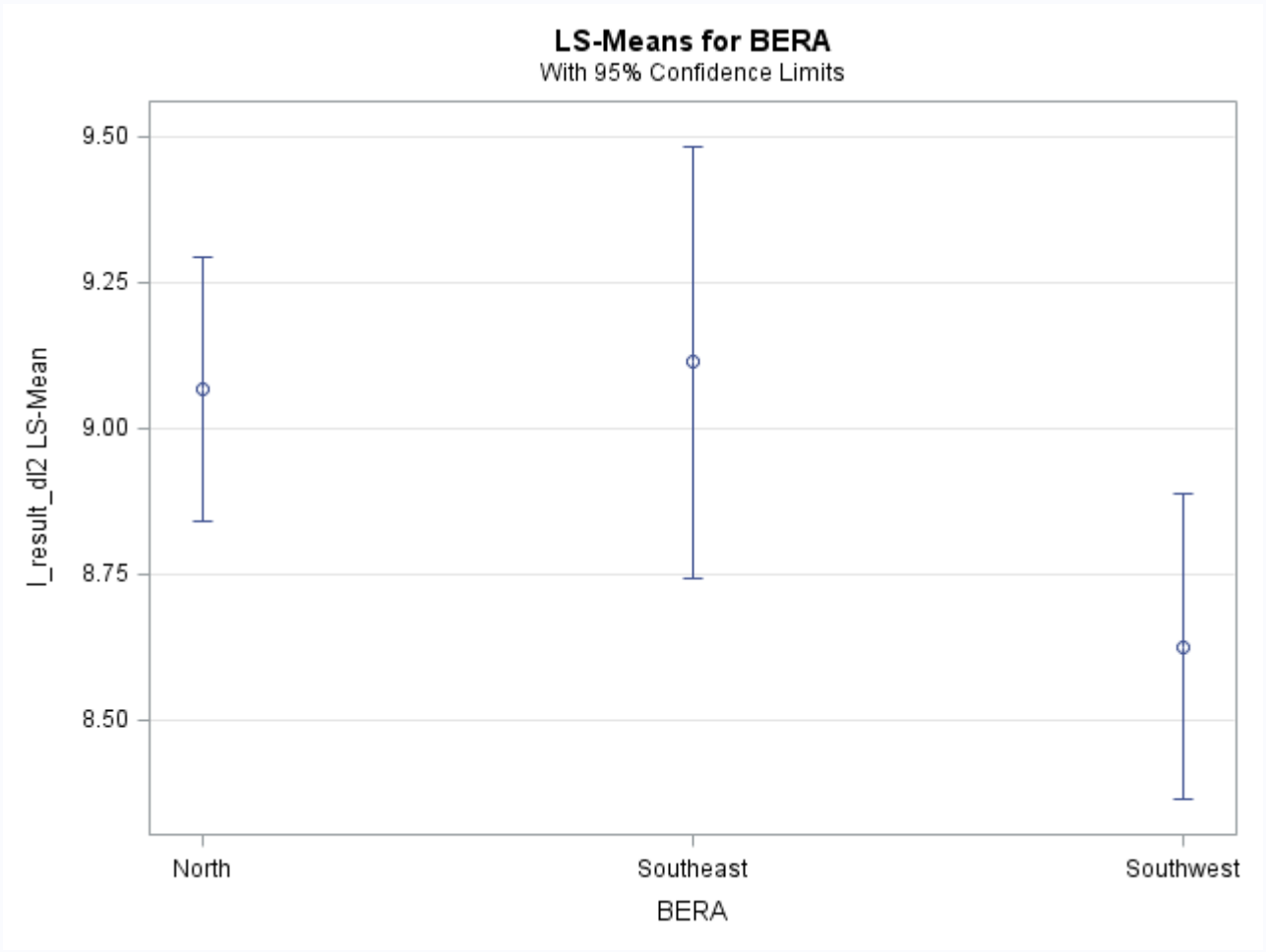
Pesticides Dieldrin
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.06712451	1
Southeast	9.11291018	2
Southwest	8.62448160	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9722	0.0395
2	0.9722		0.0869
3	0.0395	0.0869	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.50
9.25
9.00
8.75
8.50
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Heptachlor epoxide
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

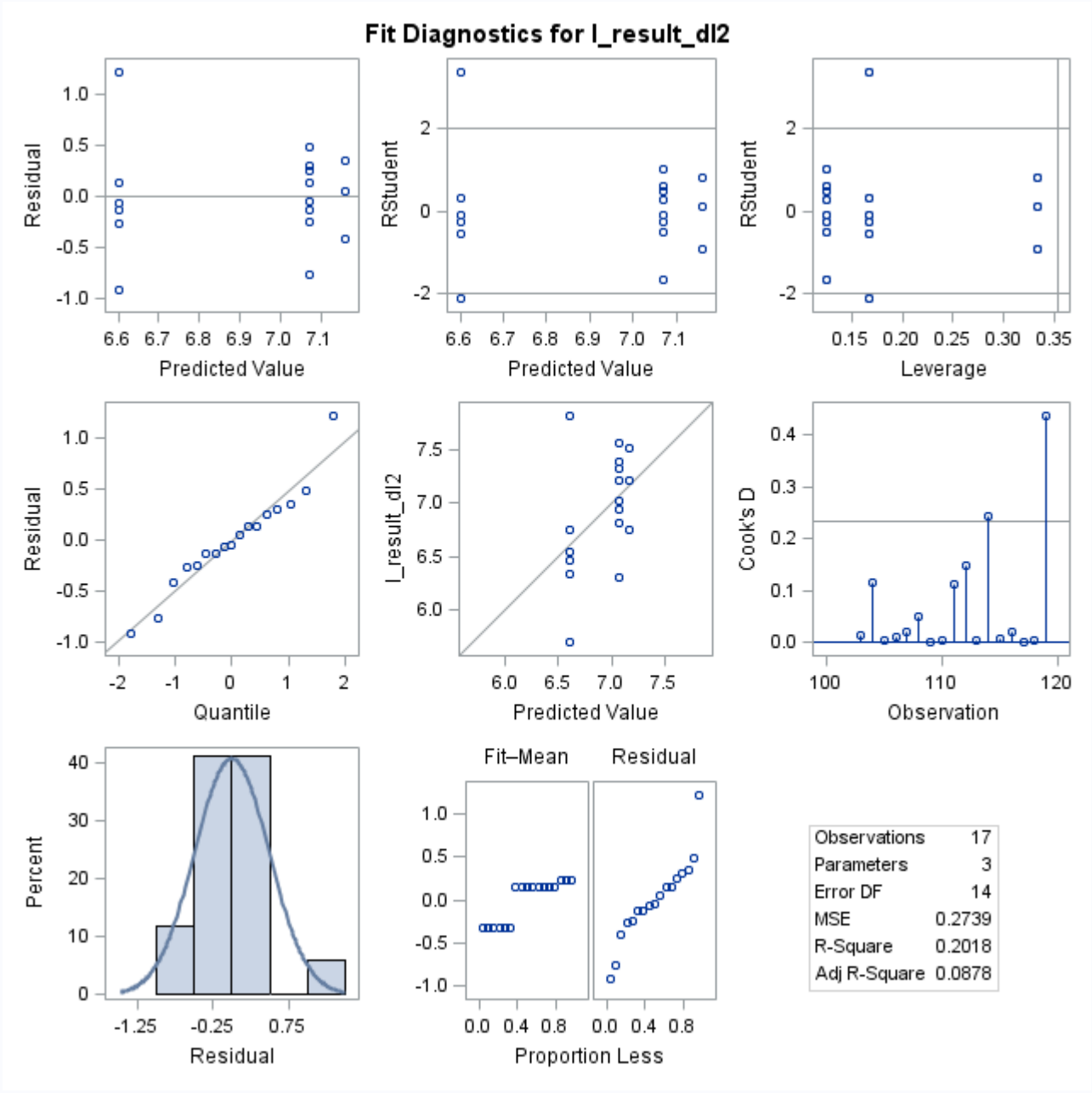
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.96935417	0.48467709	1.77	0.2064
Error	14	3.83416649	0.27386904		
Corrected Total	16	4.80352067			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.201801	7.561979	0.523325	6.920476

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.96935417	0.48467709	1.77	0.2064

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.96935417	0.48467709	1.77	0.2064


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.2739
R-Square 0.2018
Adj R-Square 0.0878

Pesticides Heptachlor epoxide
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.3108	0.1554	0.97	0.4021
Error	14	2.2360	0.1597		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.21	0.3617
Error	5.9013		

Pesticides Heptachlor epoxide
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	7.07051657	0.39613659
Southeast	**3**	7.16102672	0.38105460
Southwest	**6**	6.60014730	0.69932709

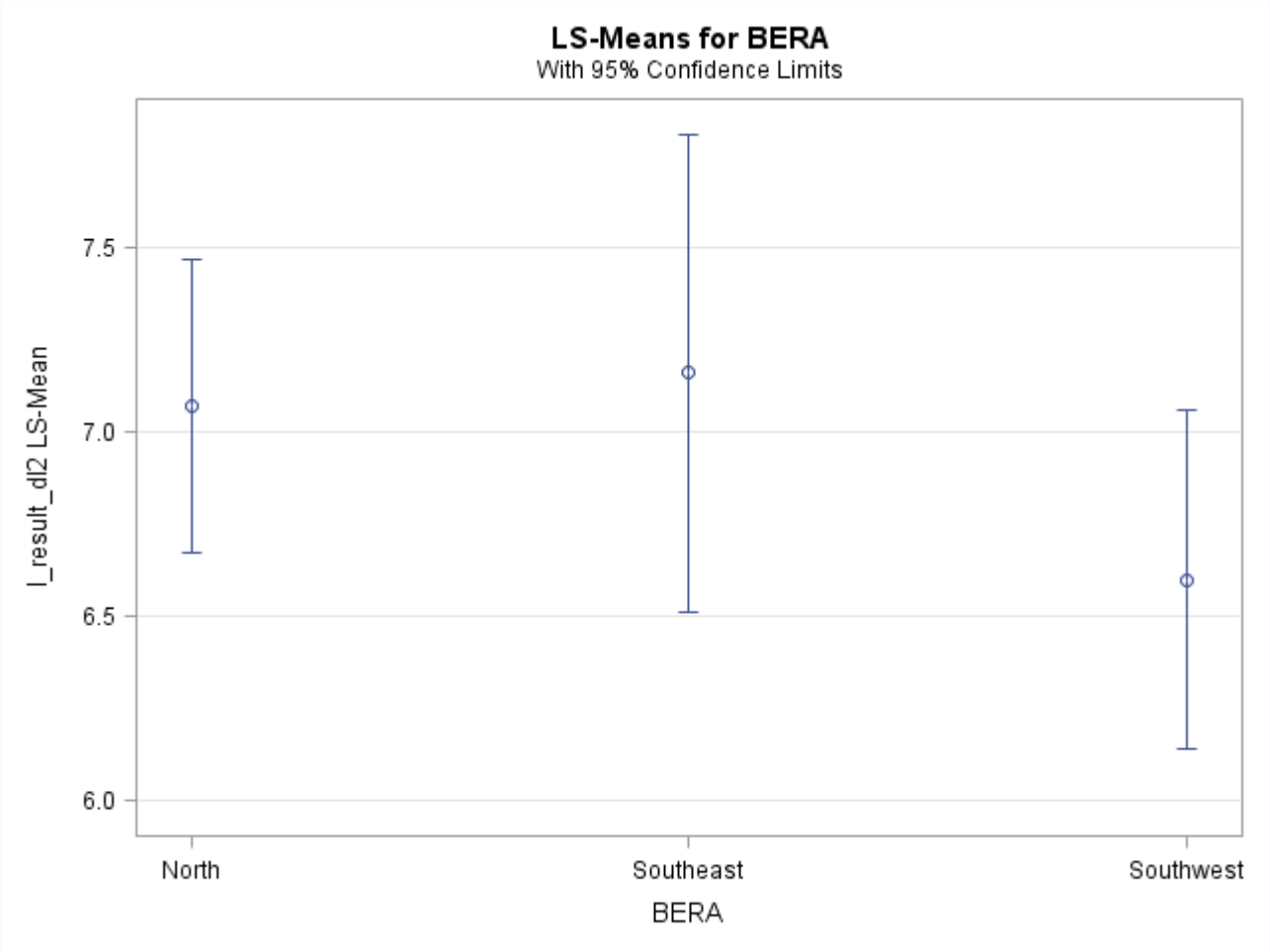
Pesticides Heptachlor epoxide
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.07051657	1
Southeast	7.16102672	2
Southwest	6.60014730	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9648	0.2529
2	0.9648		0.3137
3	0.2529	0.3137	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
7.5
7.0
6.5
6.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Hexachlorobenzene
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

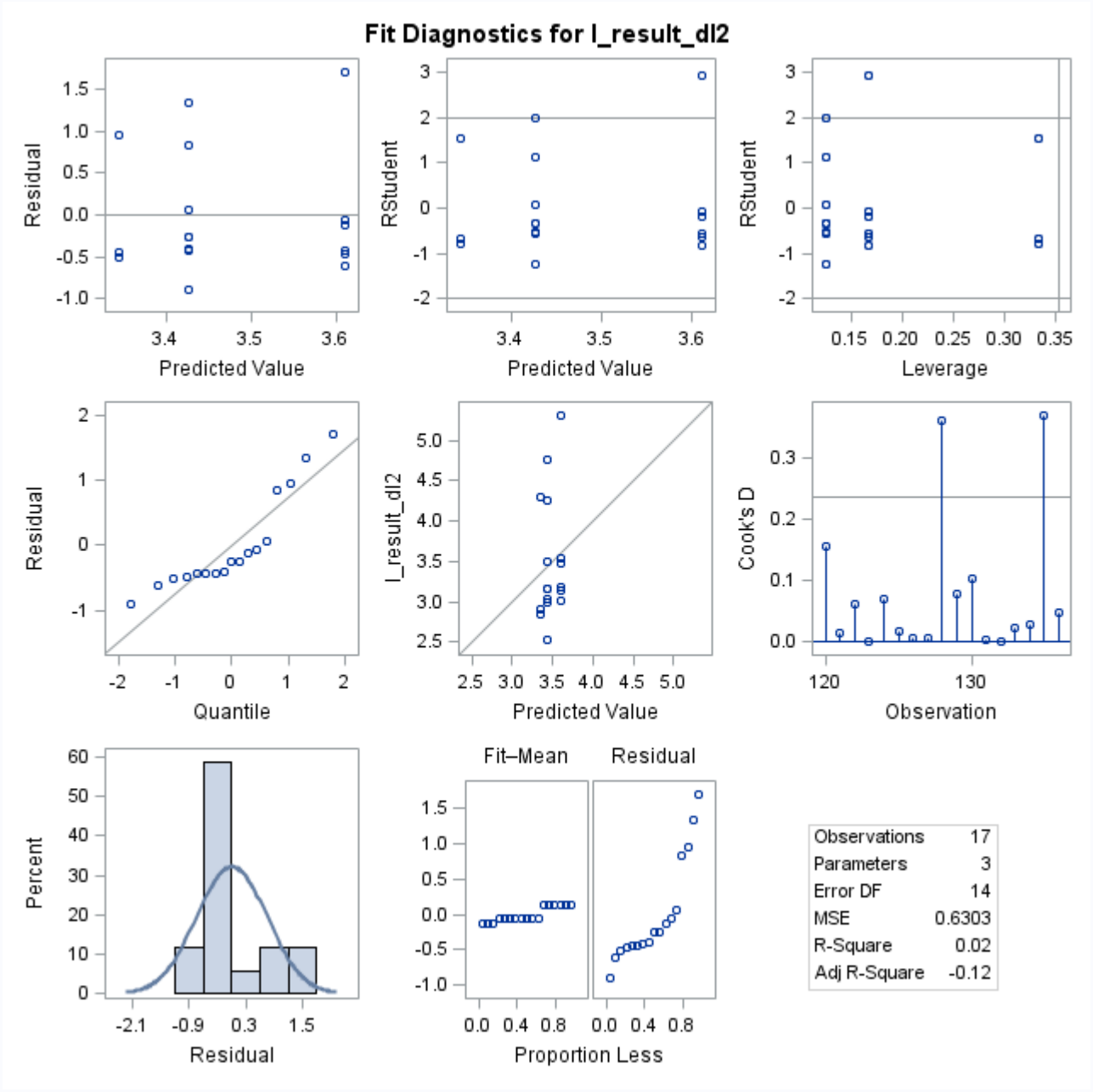
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.18049673	0.09024836	0.14	0.8678
Error	14	8.82403325	0.63028809		
Corrected Total	16	9.00452998			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.020045	22.83196	0.793907	3.477173

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.18049673	0.09024836	0.14	0.8678

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.18049673	0.09024836	0.14	0.8678


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.6303
R-Square 0.02
Adj R-Square -0.12

Pesticides Hexachlorobenzene
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0873	0.0437	0.07	0.9364
Error	14	9.2566	0.6612		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.12	0.8933
Error	5.5408		

Pesticides Hexachlorobenzene
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	3.42693159	0.73325648
Southeast	**3**	3.34397345	0.82629647
Southwest	**6**	3.61076240	0.85963319

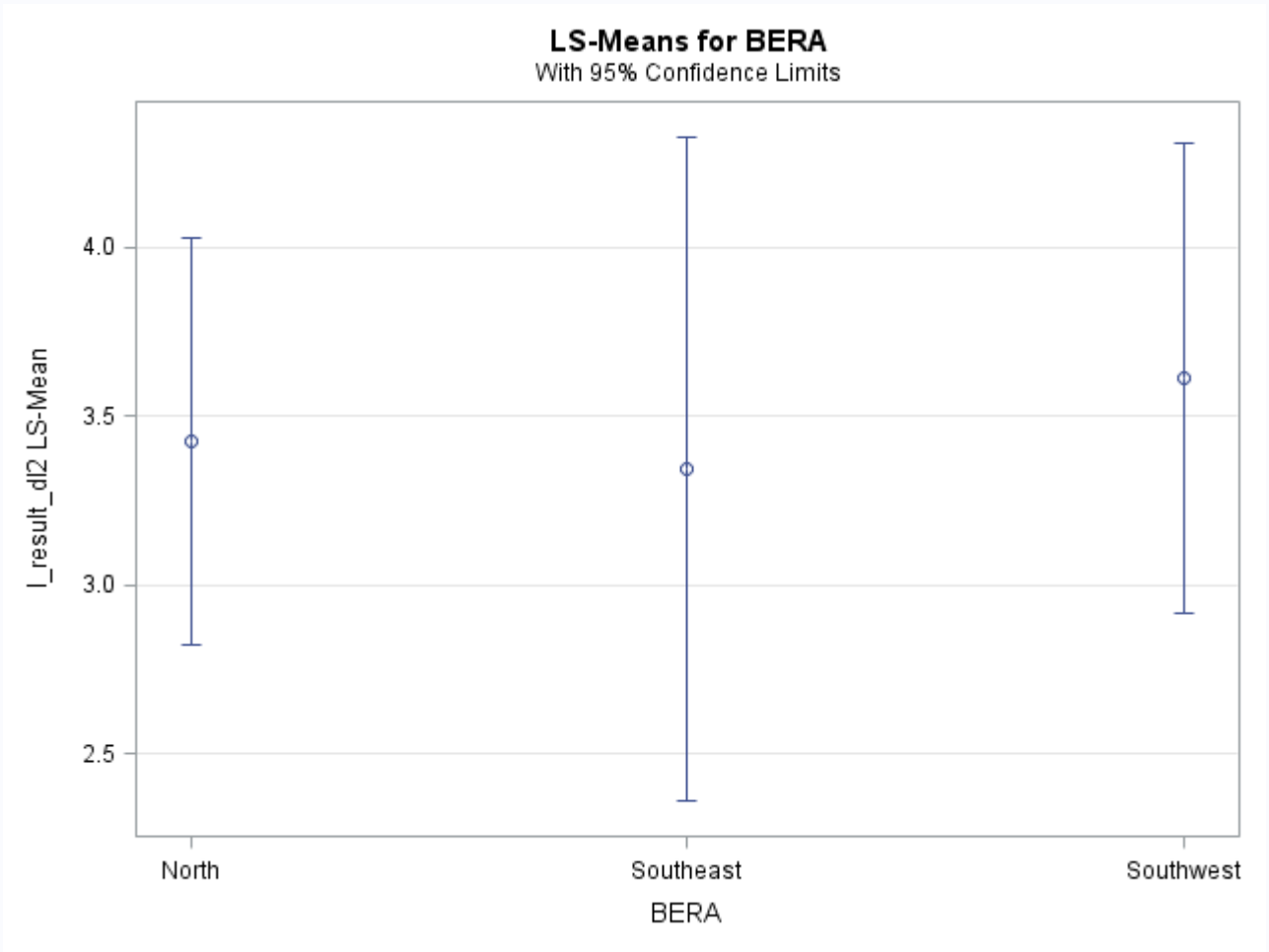
Pesticides Hexachlorobenzene
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.42693159	1
Southeast	3.34397345	2
Southwest	3.61076240	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9870	0.9043
2	0.9870		0.8839
3	0.9043	0.8839	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.0
3.5
3.0
2.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

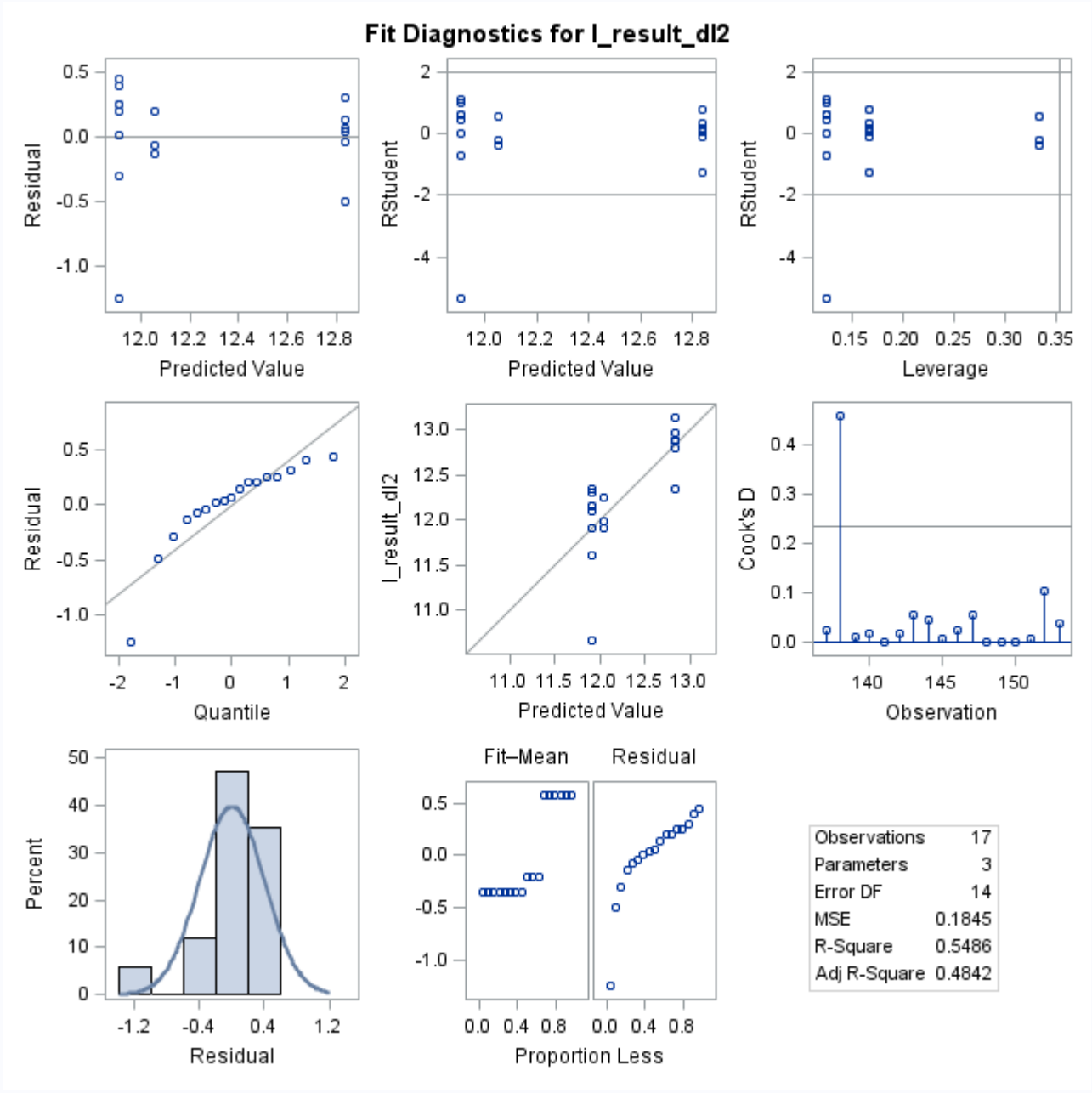
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	3.13973601	1.56986801	8.51	0.0038
Error	14	2.58297928	0.18449852		
Corrected Total	16	5.72271530			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.548644	3.503463	0.429533	12.26024

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	3.13973601	1.56986801	8.51	0.0038

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	3.13973601	1.56986801	8.51	0.0038


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.1845
R-Square 0.5486
Adj R-Square 0.4842

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2135	0.1067	0.76	0.4864
Error	14	1.9681	0.1406		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	15.42	0.0016
Error	8.2599		

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	8	11.9051717	0.55544603
Southeast	3	12.0520608	0.17857152
Southwest	6	12.8377537	0.26816475

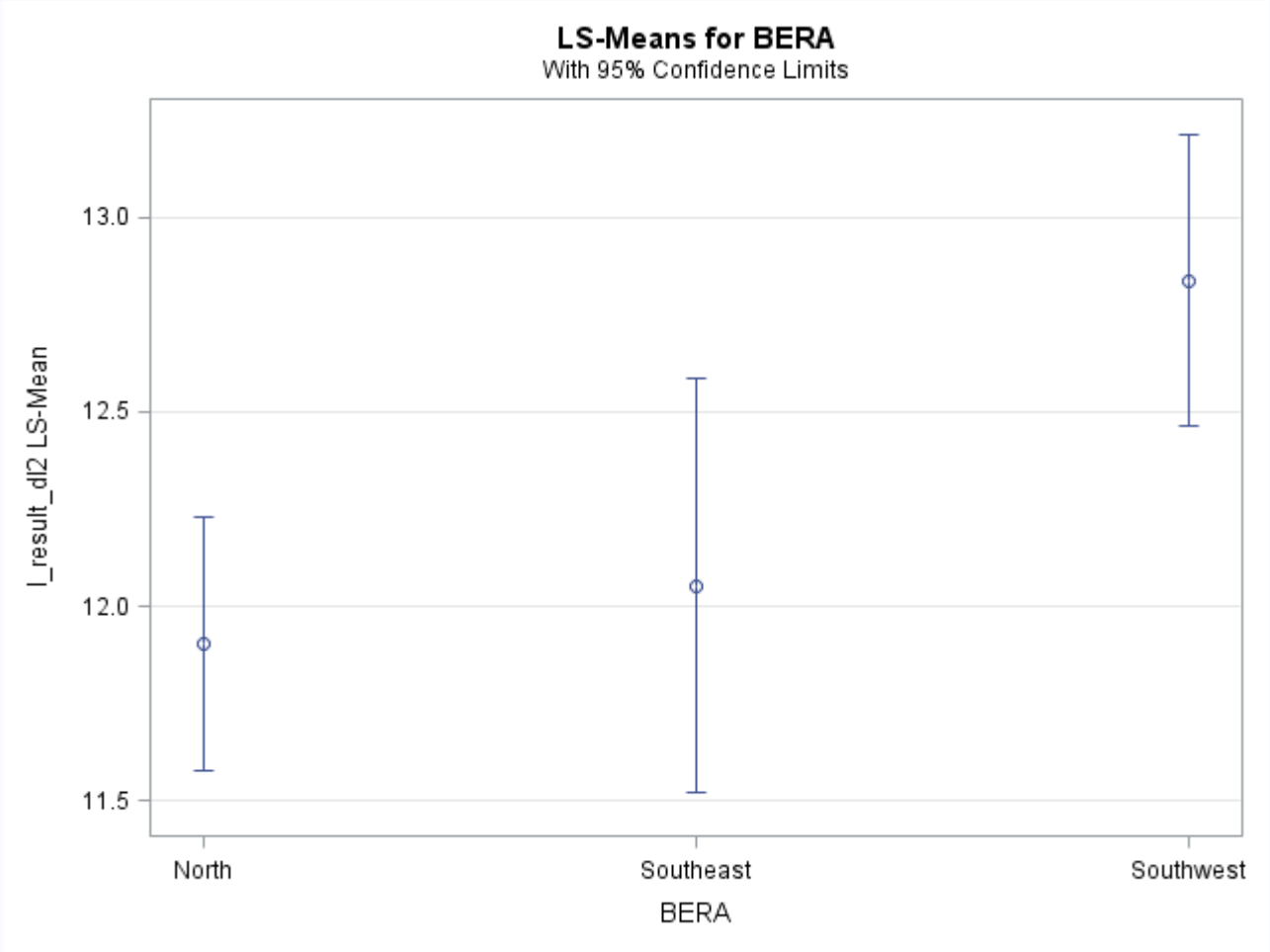
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.9051717	1
Southeast	12.0520608	2
Southwest	12.8377537	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8701	0.0034
2	0.8701		0.0529
3	0.0034	0.0529	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.5
12.0
11.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

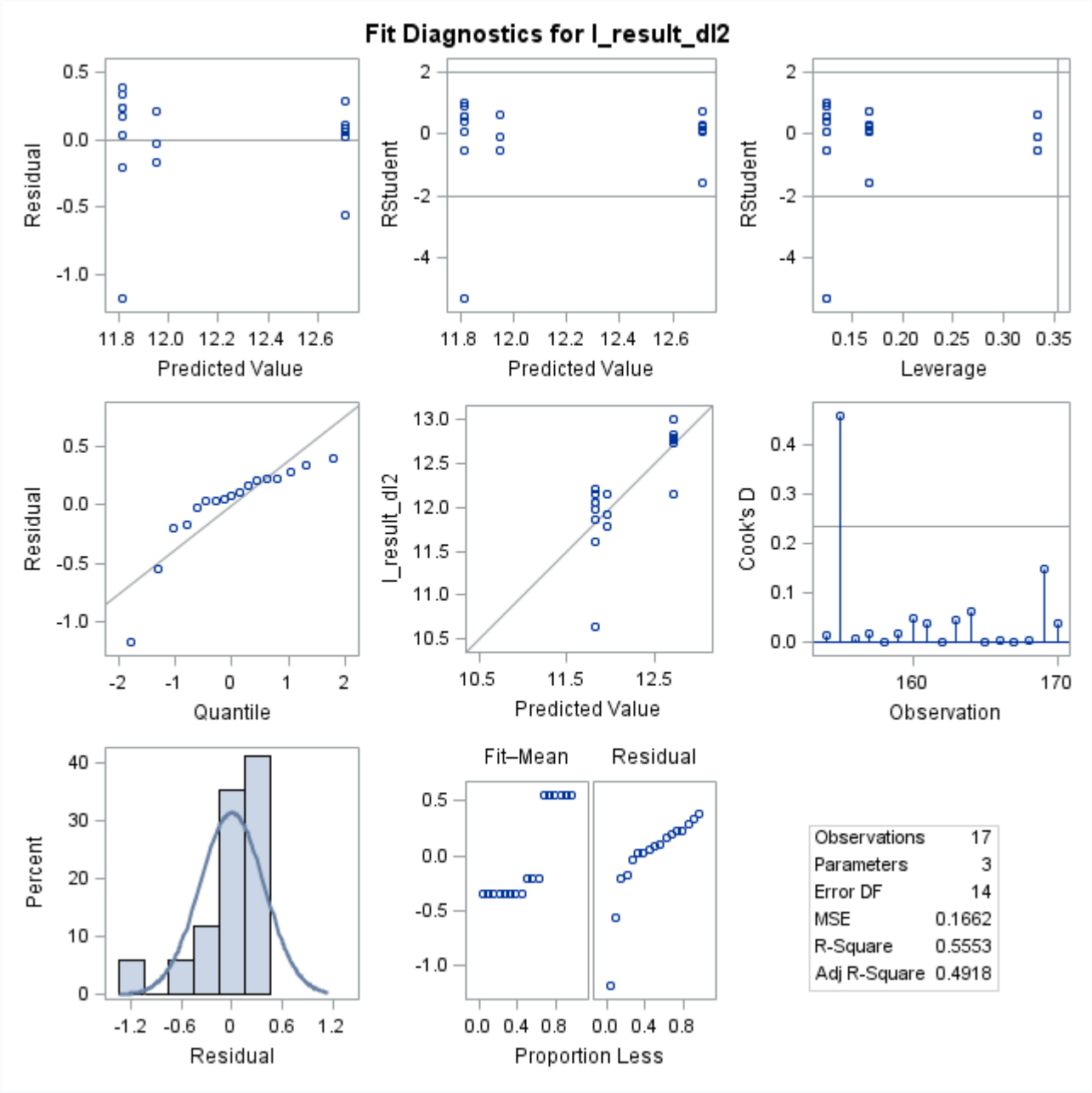
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.90589135	1.45294567	8.74	0.0034
Error	14	2.32696038	0.16621146		
Corrected Total	16	5.23285173			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.555317	3.354060	0.407690	12.15513

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.90589135	1.45294567	8.74	0.0034

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.90589135	1.45294567	8.74	0.0034


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.1662
R-Square 0.5553
Adj R-Square 0.4918

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1353	0.0677	0.58	0.5753
Error	14	1.6466	0.1176		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	13.17	0.0028
Error	8.1053		

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	11.8152463	0.51284351
Southeast	**3**	11.9494866	0.19164632
Southwest	**6**	12.7111360	0.28720880

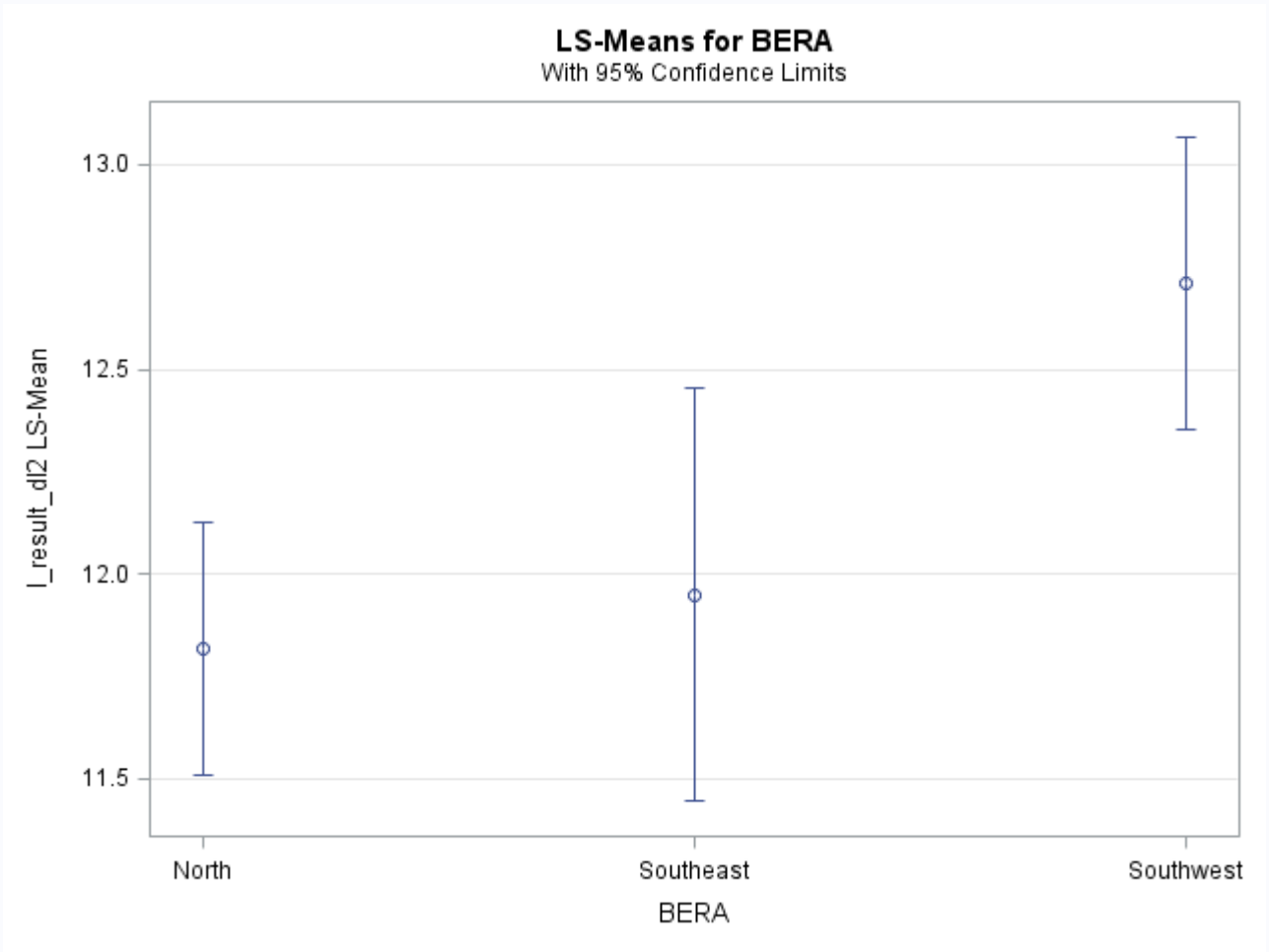
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.8152463	1
Southeast	11.9494866	2
Southwest	12.7111360	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8788	0.0031
2	0.8788		0.0478
3	0.0031	0.0478	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.5
12.0
11.5
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

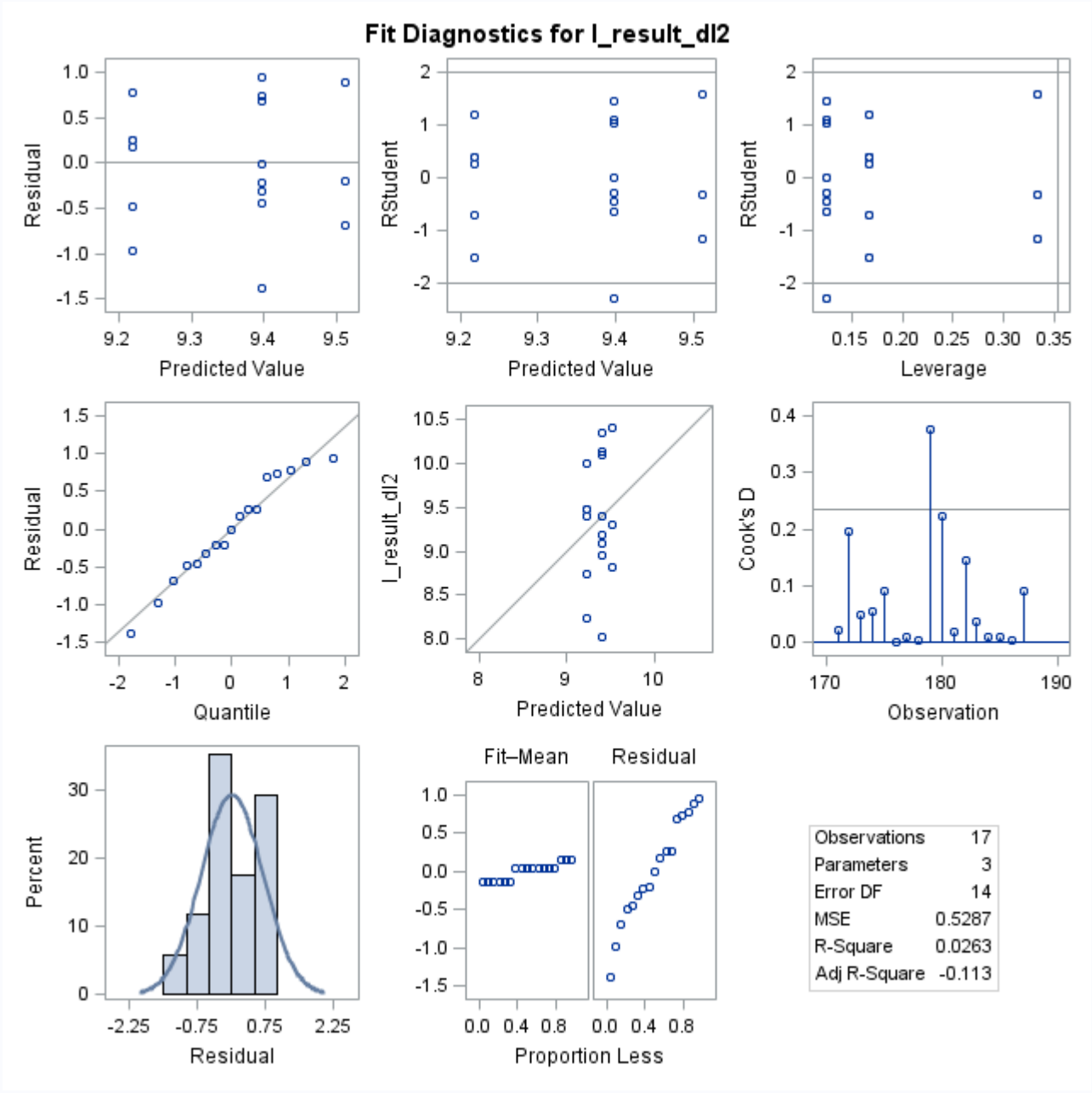
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.19958602	0.09979301	0.19	0.8301
Error	14	7.40232771	0.52873769		
Corrected Total	16	7.60191373			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.026255	7.773140	0.727144	9.354566

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.19958602	0.09979301	0.19	0.8301

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.19958602	0.09979301	0.19	0.8301


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.5287
R-Square 0.0263
Adj R-Square -0.113

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.1246	0.0623	0.23	0.7969
Error	14	3.7799	0.2700		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.18	0.8402
Error	5.5344		

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	9.39763816	0.76851482
Southeast	**3**	9.51153043	0.80966786
Southwest	**6**	9.21865498	0.62560346

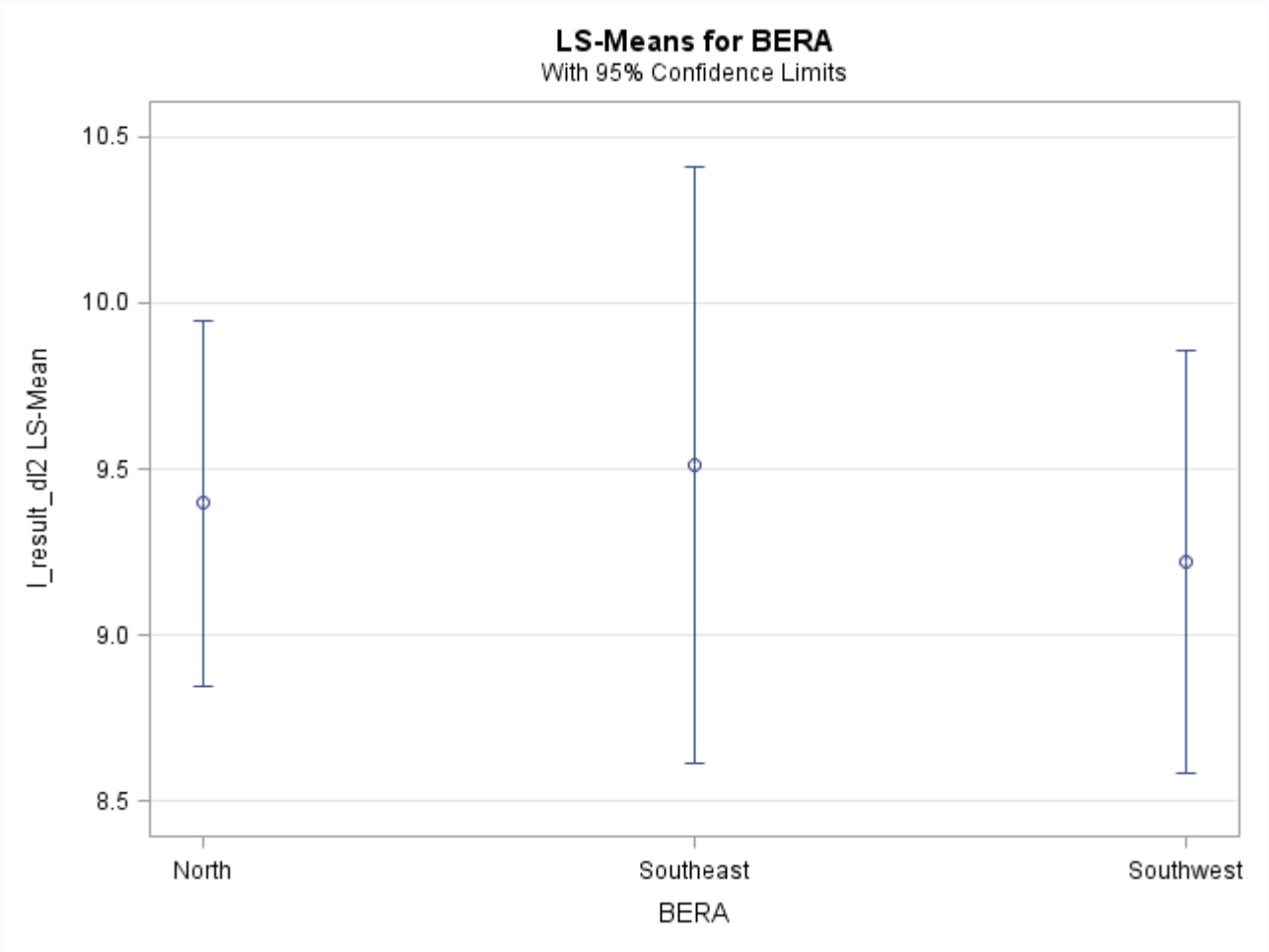
Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.39763816	1
Southeast	9.51153043	2
Southwest	9.21865498	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9710	0.8927
2	0.9710		0.8382
3	0.8927	0.8382	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.5
10.0
9.5
9.0
8.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides beta-BHC
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

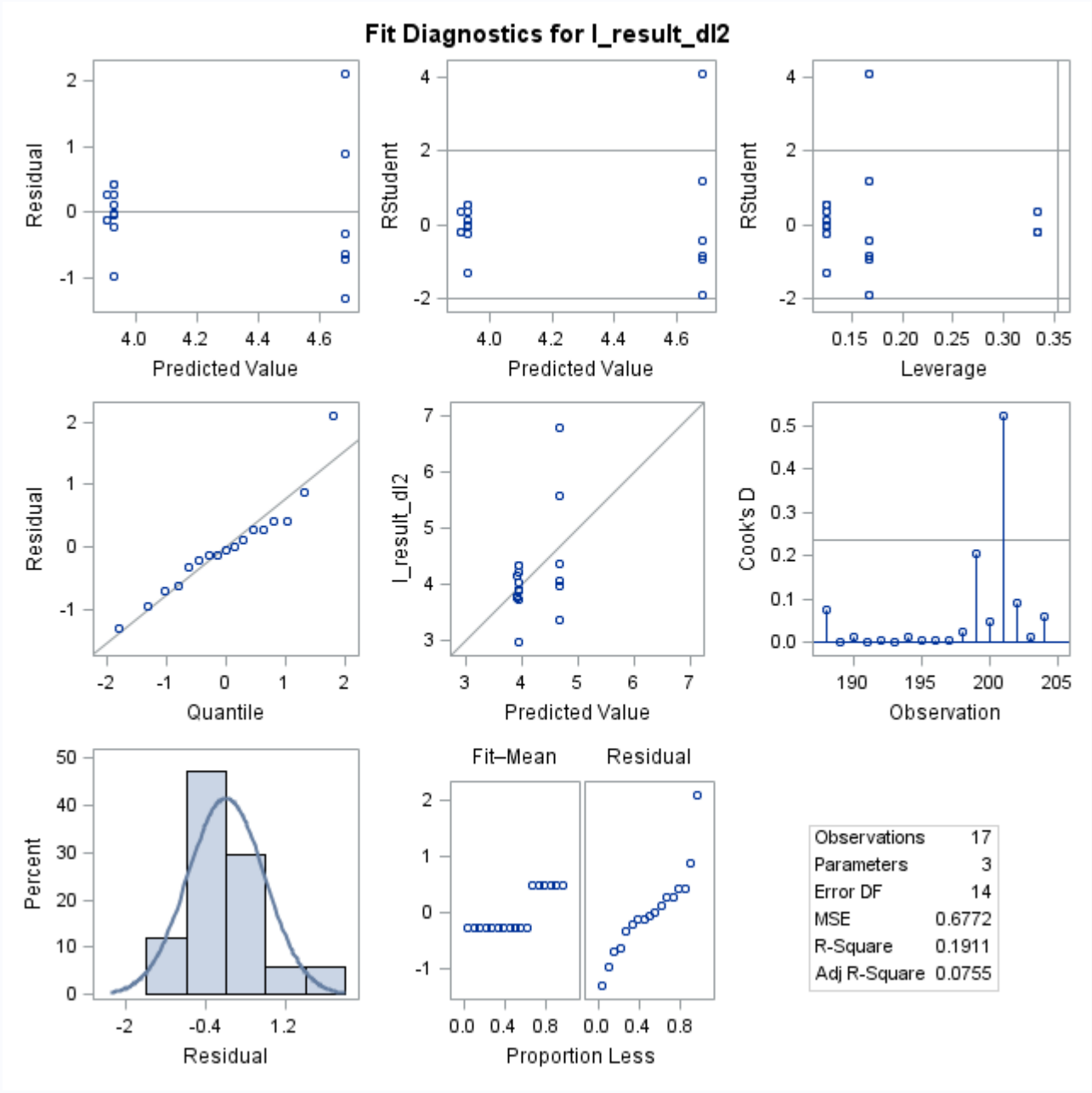
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.23964260	1.11982130	1.65	0.2266
Error	14	9.48090320	0.67720737		
Corrected Total	16	11.72054580			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.191087	19.64239	0.822926	4.189541

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.23964260	1.11982130	1.65	0.2266

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.23964260	1.11982130	1.65	0.2266


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.6772
R-Square 0.1911
Adj R-Square 0.0755

Pesticides beta-BHC
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	5.5312	2.7656	2.81	0.0943
Error	14	13.7889	0.9849		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.99	0.4122
Error	8.1215		

Pesticides beta-BHC
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	3.92742090	0.45020028
Southeast	**3**	3.90583613	0.22456720
Southwest	**6**	4.68088637	1.26184629

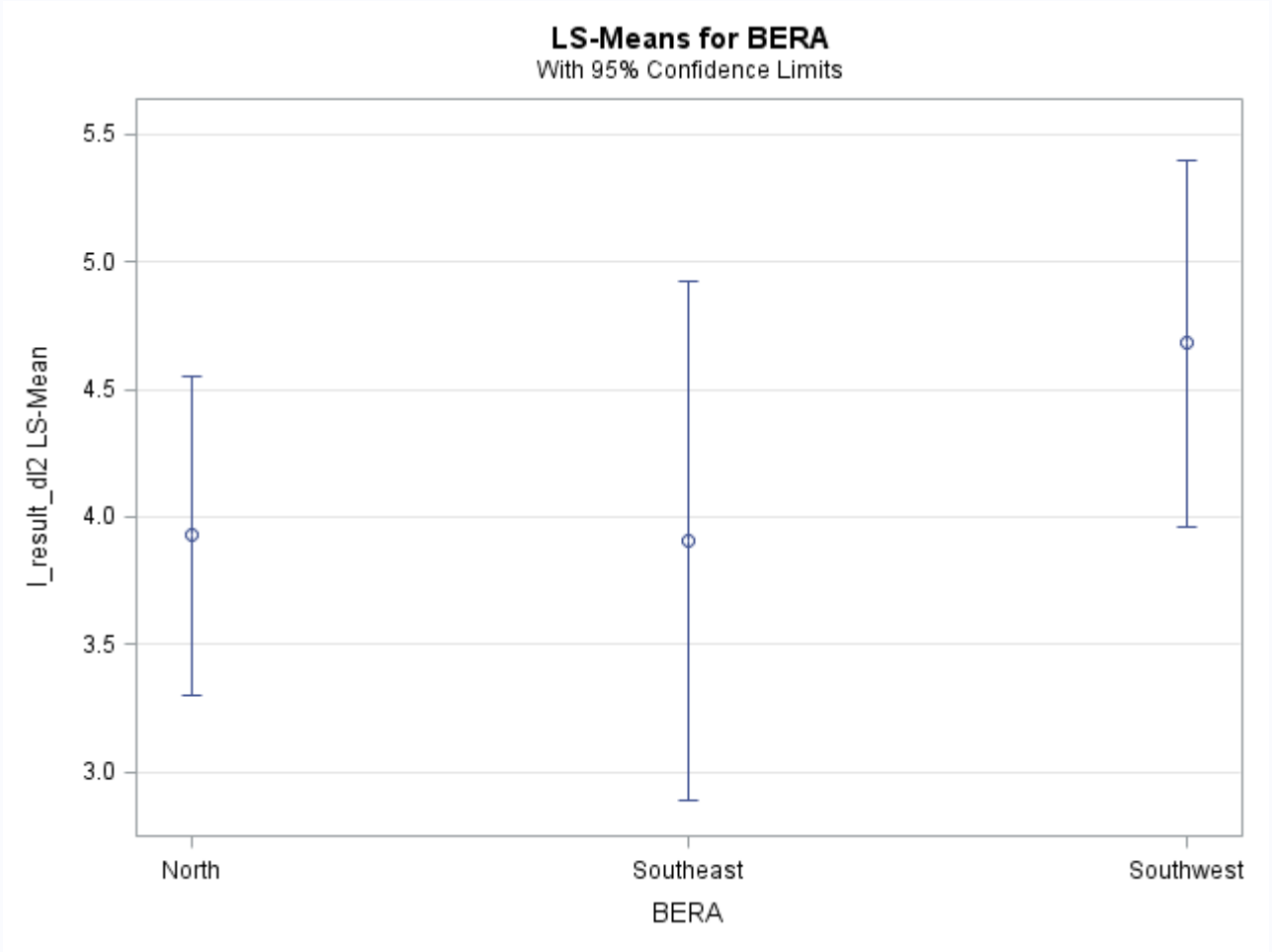
Pesticides beta-BHC
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.92742090	1
Southeast	3.90583613	2
Southwest	4.68088637	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9992	0.2414
2	0.9992		0.4016
3	0.2414	0.4016	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5.5
5.0
4.5
4.0
3.5
3.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides cis-Nonachlor
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

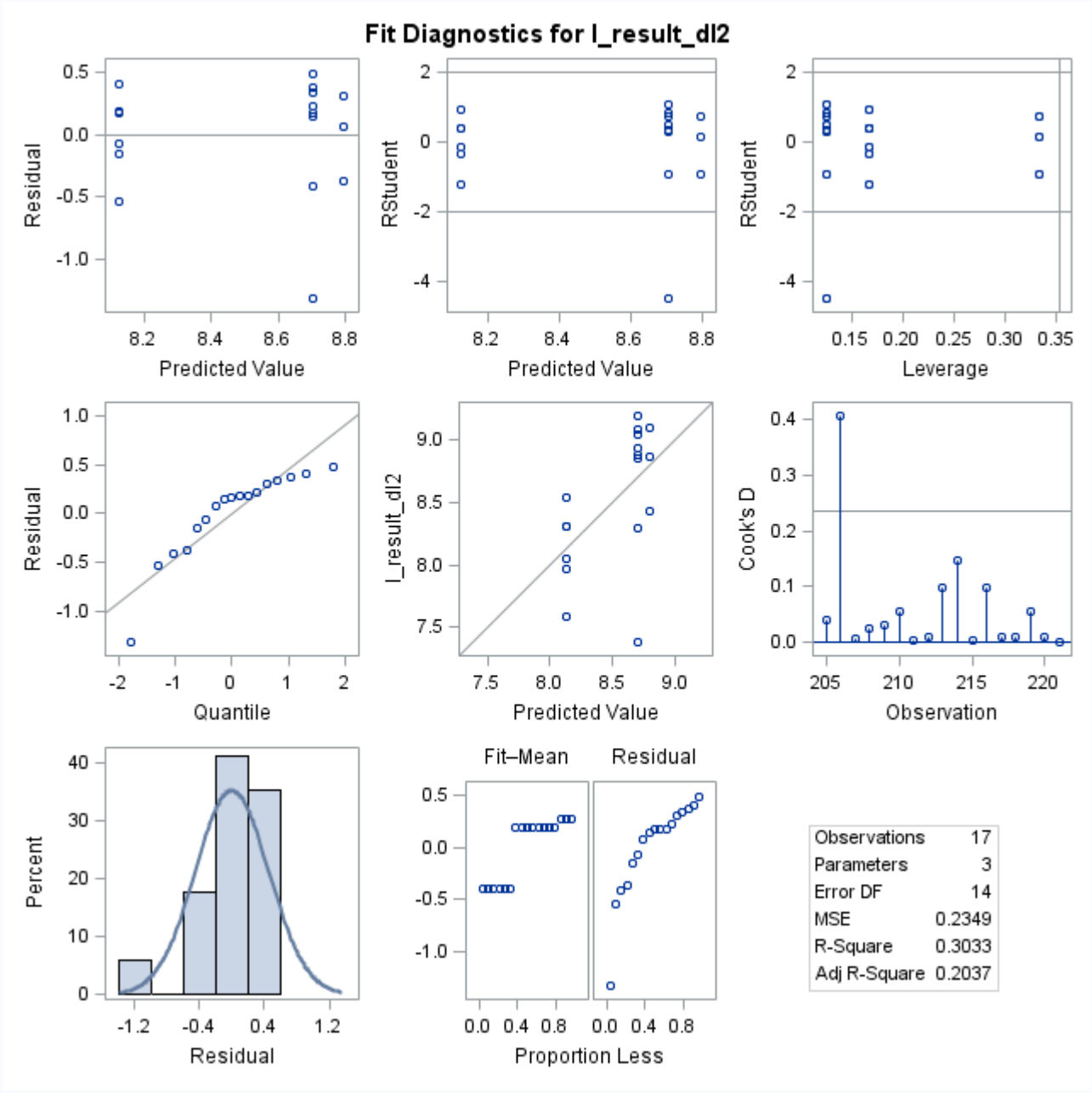
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.43132929	0.71566464	3.05	0.0797
Error	14	3.28859339	0.23489953		
Corrected Total	16	4.71992268			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.303253	5.691533	0.484664	8.515532

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.43132929	0.71566464	3.05	0.0797

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.43132929	0.71566464	3.05	0.0797


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.2349
R-Square 0.3033
Adj R-Square 0.2037

Pesticides cis-Nonachlor
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2190	0.1095	0.62	0.5520
Error	14	2.4712	0.1765		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	4.61	0.0570
Error	6.4606		

Pesticides cis-Nonachlor
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	8.70427344	0.59878869
Southeast	**3**	8.79323888	0.34162944
Southwest	**6**	8.12502393	0.33025348

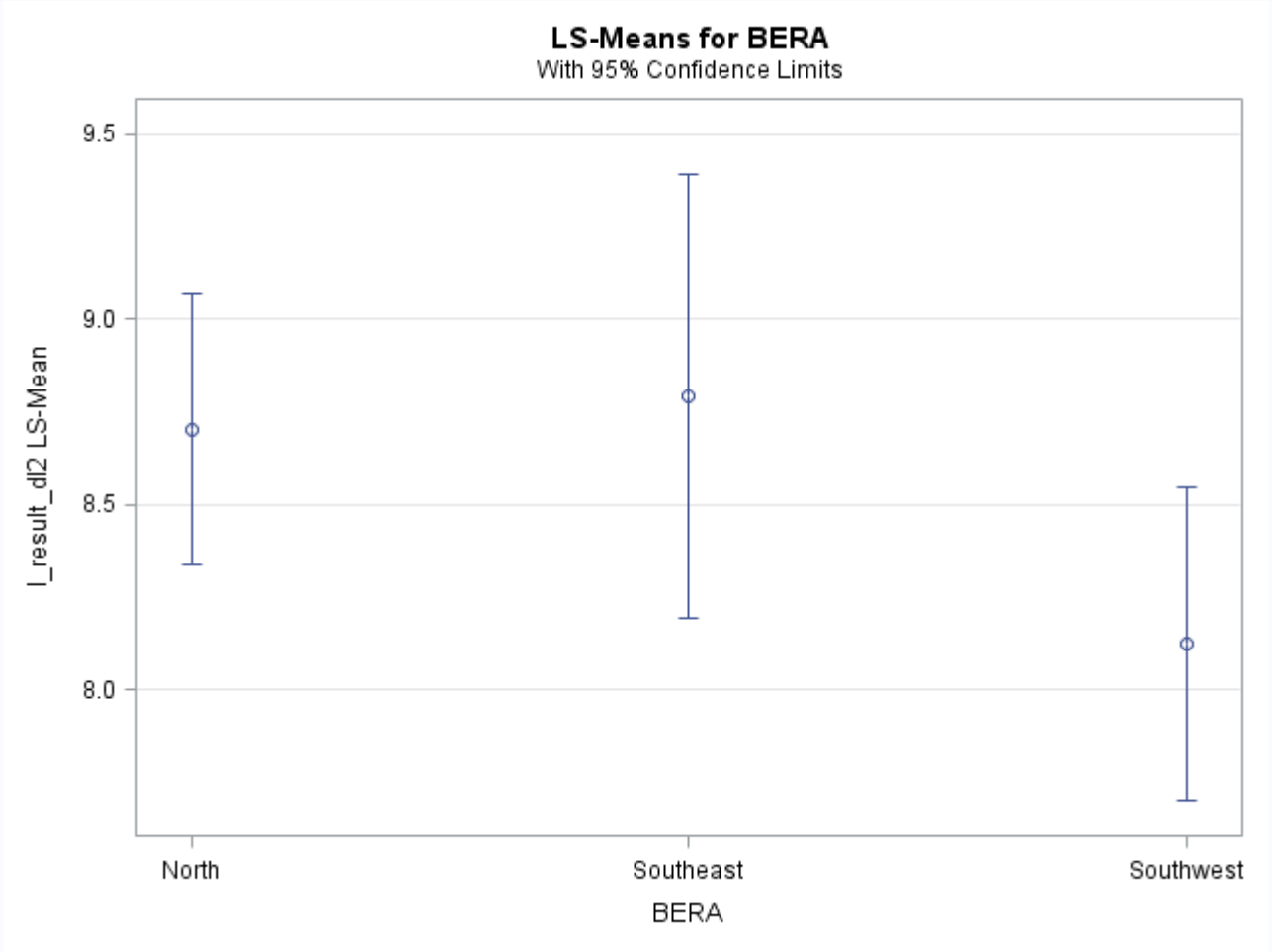
Pesticides cis-Nonachlor
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.70427344	1
Southeast	8.79323888	2
Southwest	8.12502393	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9604	0.1035
2	0.9604		0.1616
3	0.1035	0.1616	


LS-Means for BERA
With 95% Confidence Limits
9.5
9.0
8.5
8.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

PAHs Total LMW PAHs
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

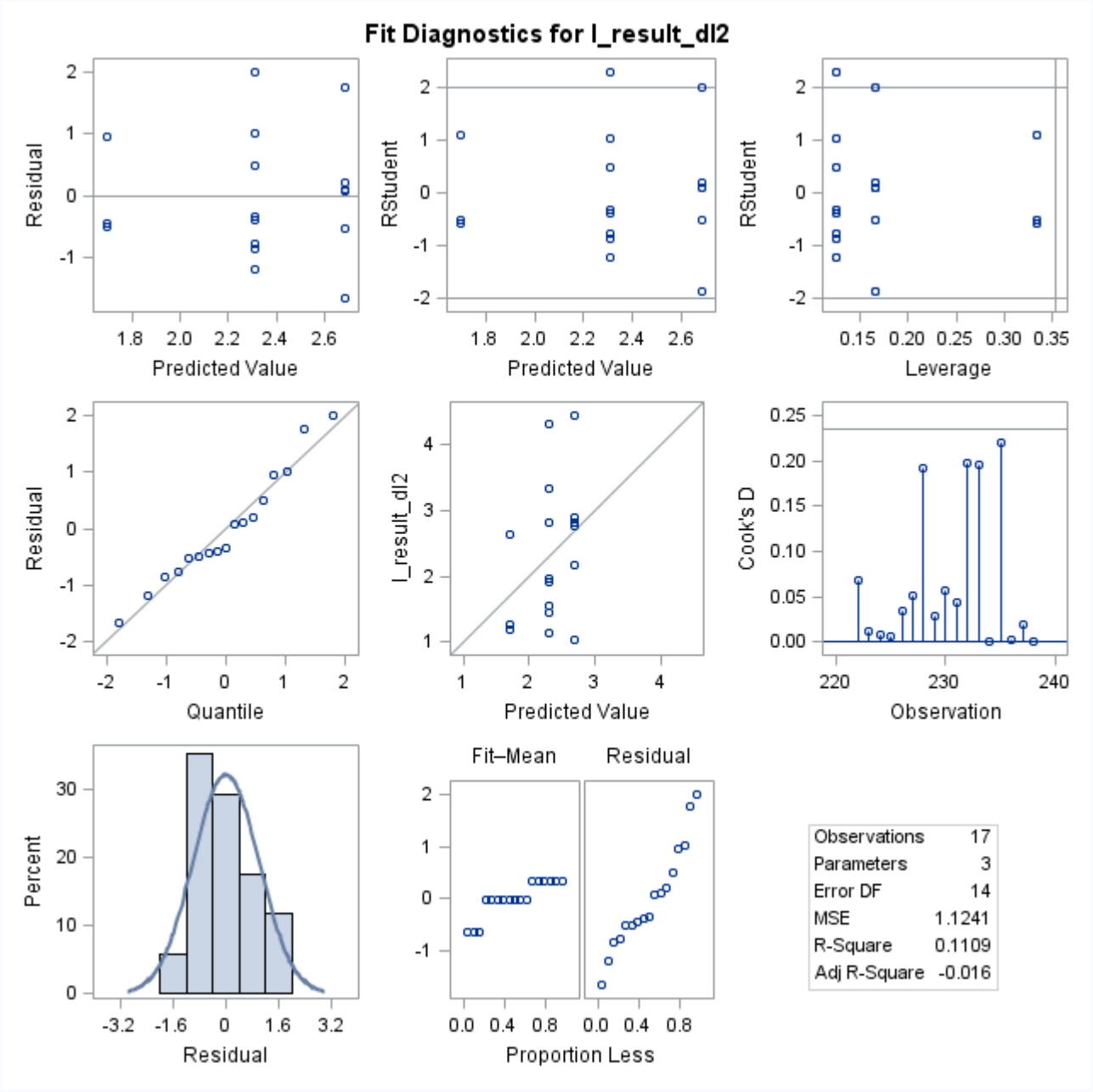
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.96242748	0.98121374	0.87	0.4393
Error	14	15.73672191	1.12405157		
Corrected Total	16	17.69914939			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.110877	45.44315	1.060213	2.333054

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.96242748	0.98121374	0.87	0.4393

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.96242748	0.98121374	0.87	0.4393


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 1.1241
R-Square 0.1109
Adj R-Square -0.016

PAHs Total LMW PAHs
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.8384	0.4192	0.26	0.7735
Error	14	22.4354	1.6025		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.05	0.4014
Error	6.5614		

PAHs Total LMW PAHs
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	2.30928195	1.08451492
Southeast	**3**	1.69524759	0.81789252
Southwest	**6**	2.68365243	1.11046092

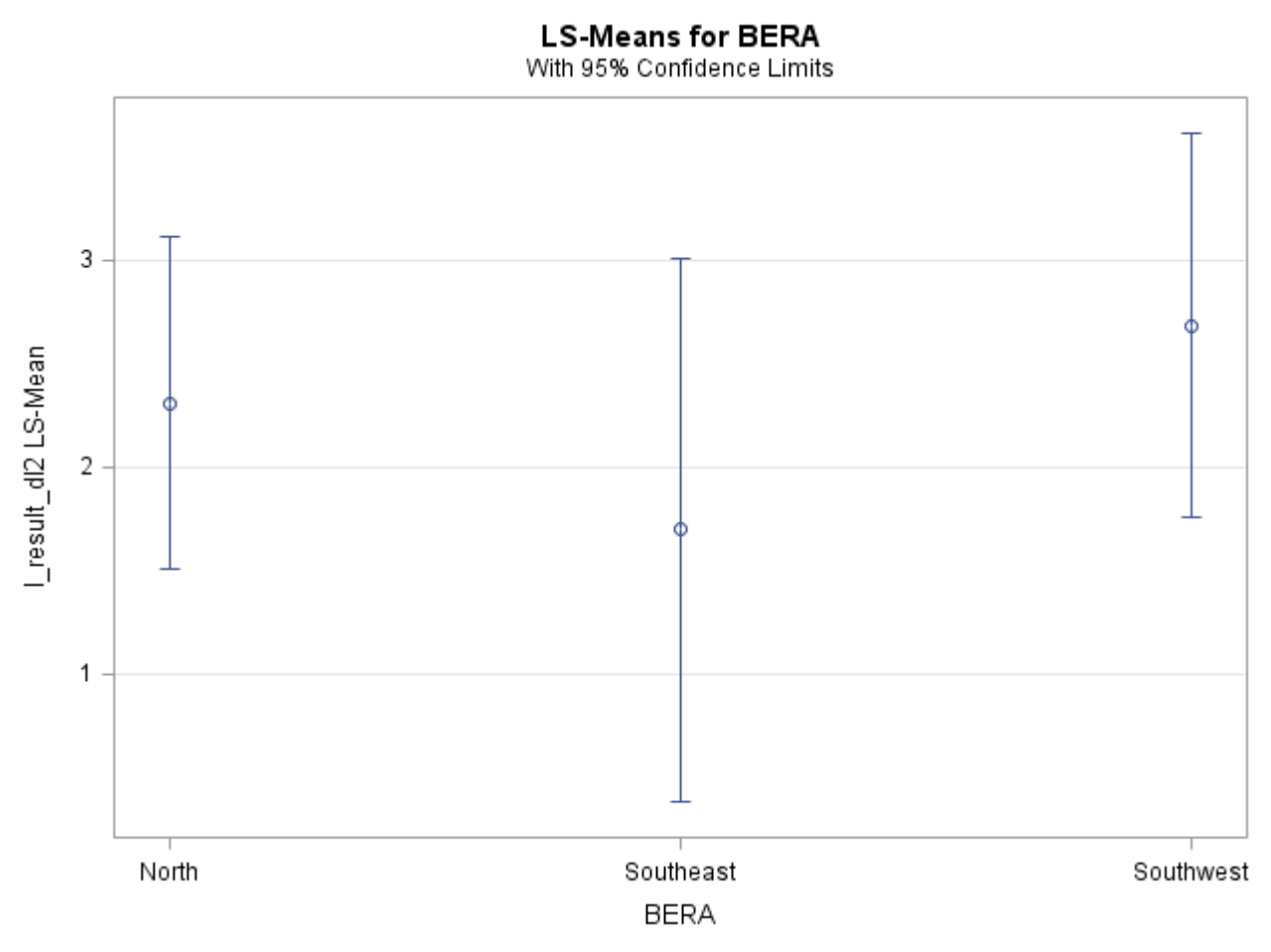
PAHs Total LMW PAHs
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.30928195	1
Southeast	1.69524759	2
Southwest	2.68365243	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6759	0.7933
2	0.6759		0.4085
3	0.7933	0.4085	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3
2
1
North
Southeast
Southwest
BERA

PAHs Total PAH
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

PAHs Total PAH
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

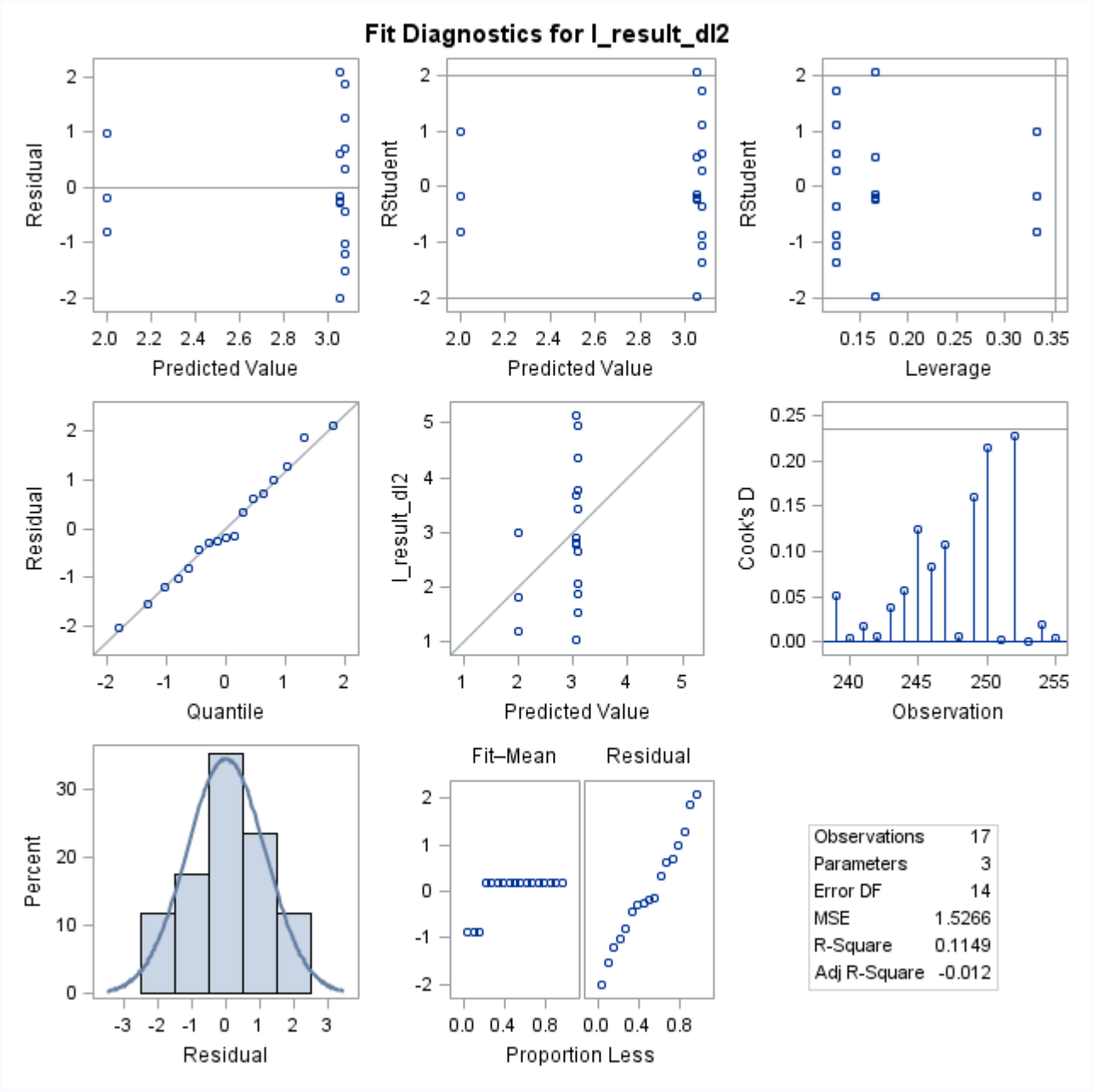
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	2.77408830	1.38704415	0.91	0.4256
Error	14	21.37179308	1.52655665		
Corrected Total	16	24.14588137			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.114889	42.94503	1.235539	2.877024

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	2.77408830	1.38704415	0.91	0.4256

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	2.77408830	1.38704415	0.91	0.4256


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 1.5266
R-Square 0.1149
Adj R-Square -0.012

PAHs Total PAH
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.8660	0.9330	0.41	0.6731
Error	14	32.0692	2.2907		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.29	0.3354
Error	6.6688		

PAHs Total PAH
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	3.07498874	1.23794861
Southeast	**3**	2.00473468	0.91431927
Southwest	**6**	3.04921673	1.33956831

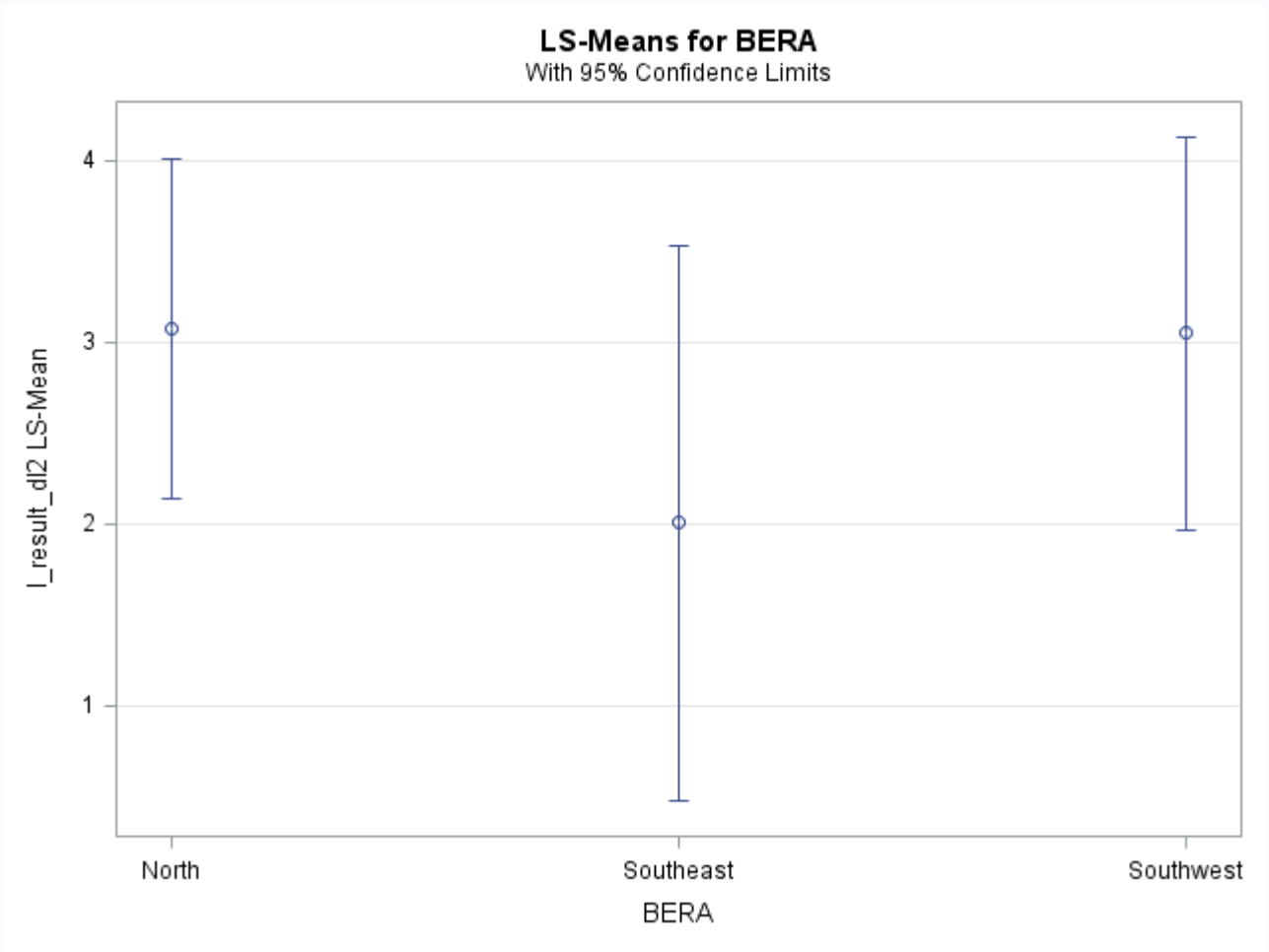
PAHs Total PAH
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.07498874	1
Southeast	2.00473468	2
Southwest	3.04921673	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.4290	0.9992
2	0.4290		0.4749
3	0.9992	0.4749	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4
3
2
1
North
Southeast
Southwest
BERA

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Lipids Lipids
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

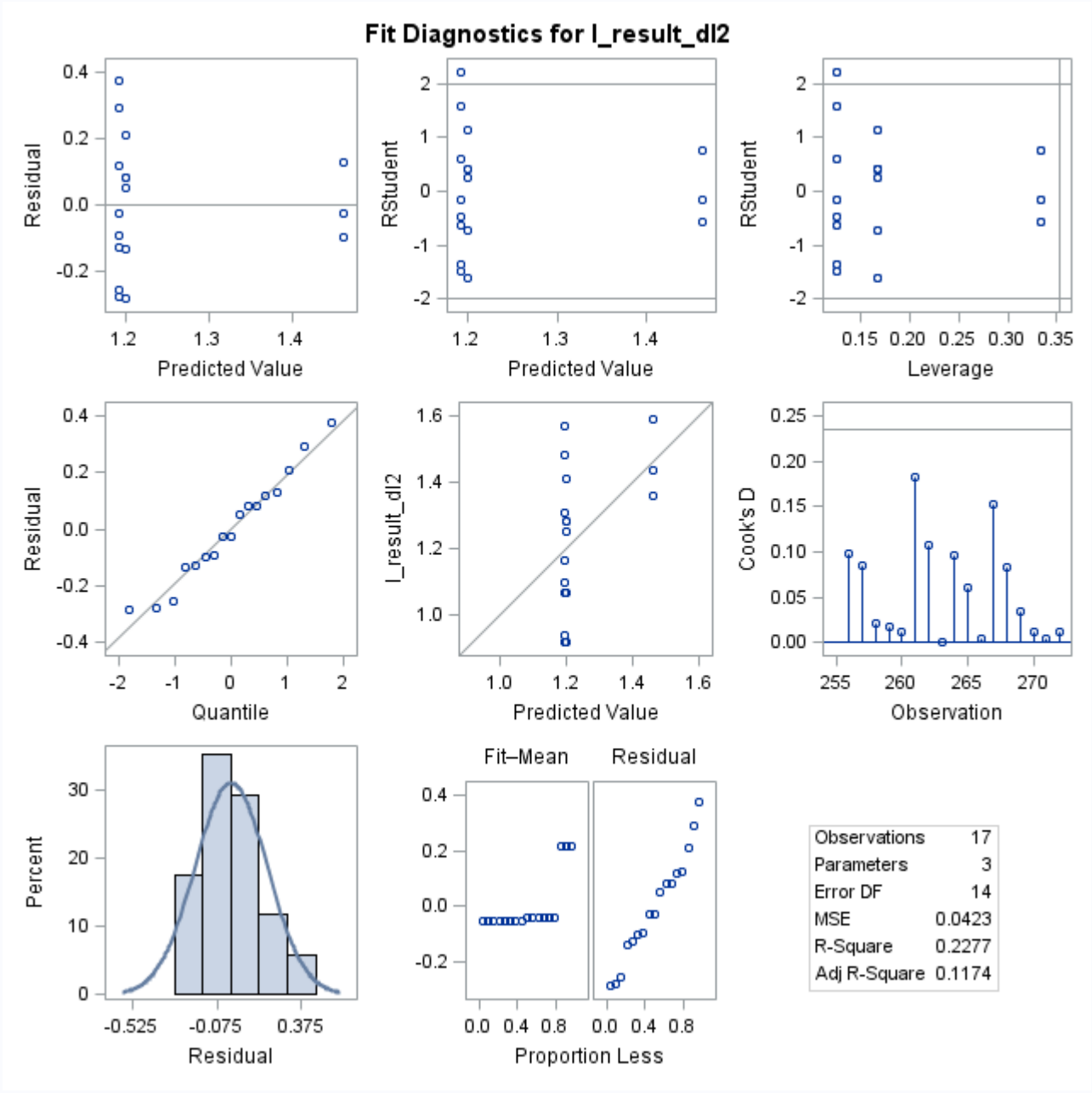
Dependent Variable: l_result_dl2
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.17477114	0.08738557	2.06	0.1639
Error	14	0.59280897	0.04234350		
Corrected Total	16	0.76758011			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.227691	16.55605	0.205775	1.242902

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.17477114	0.08738557	2.06	0.1639

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.17477114	0.08738557	2.06	0.1639


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.0423
R-Square 0.2277
Adj R-Square 0.1174

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00445	0.00223	1.42	0.2740
Error	14	0.0219	0.00157		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	4.25	0.0567
Error	7.7623		

The GLM Procedure
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	1.19217640	0.24098113
Southeast	**3**	1.46176543	0.11644486
Southwest	**6**	1.20110318	0.17843029

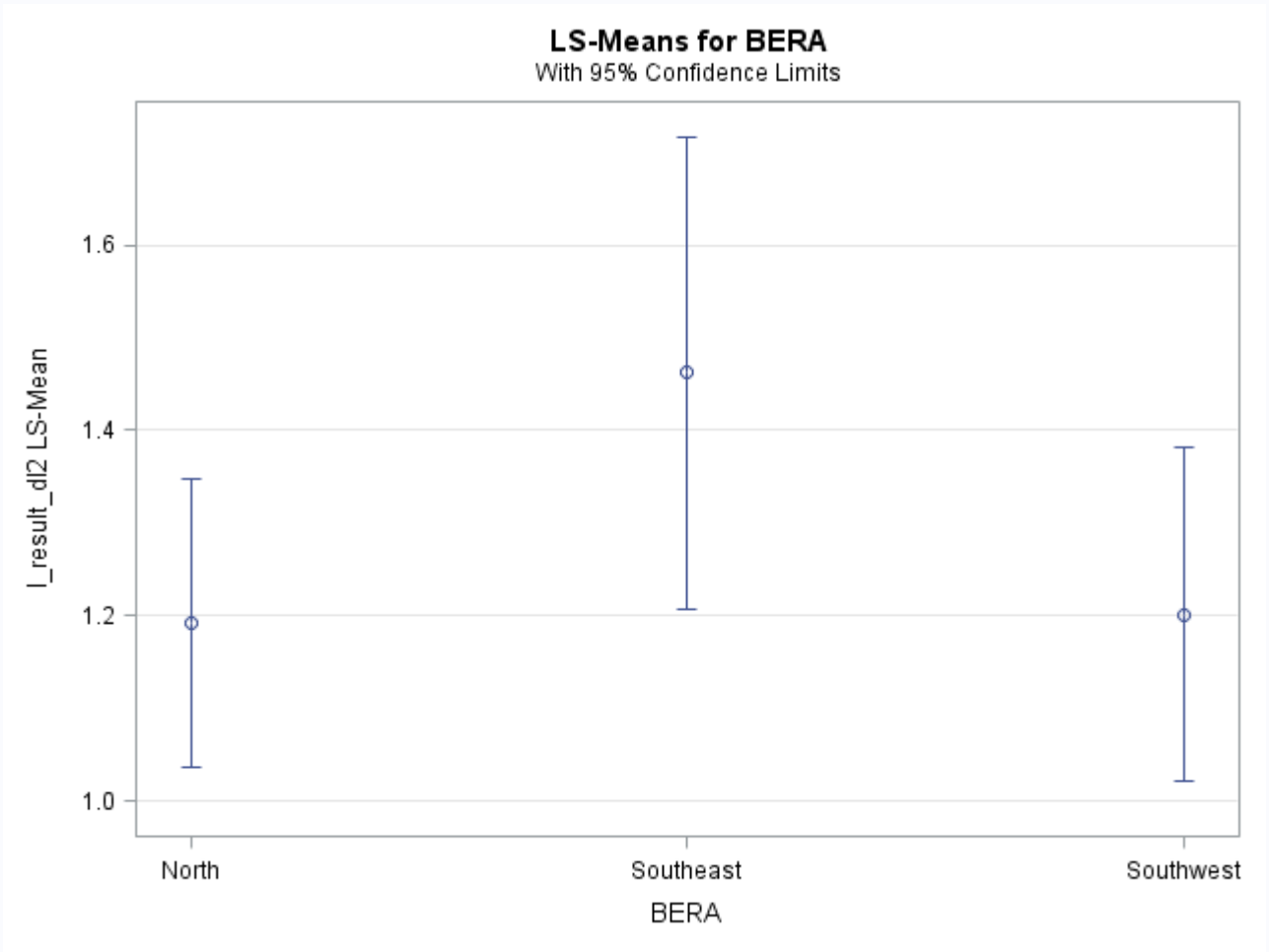
Lipids Lipids
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=6 parameter_group=Lipids chemical_name=Lipids result_unit=%

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	1.19217640	1
Southeast	1.46176543	2
Southwest	1.20110318	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1655	0.9964
2	0.1655		0.2082
3	0.9964	0.2082	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
1.6
1.4
1.2
1.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Arsenic
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

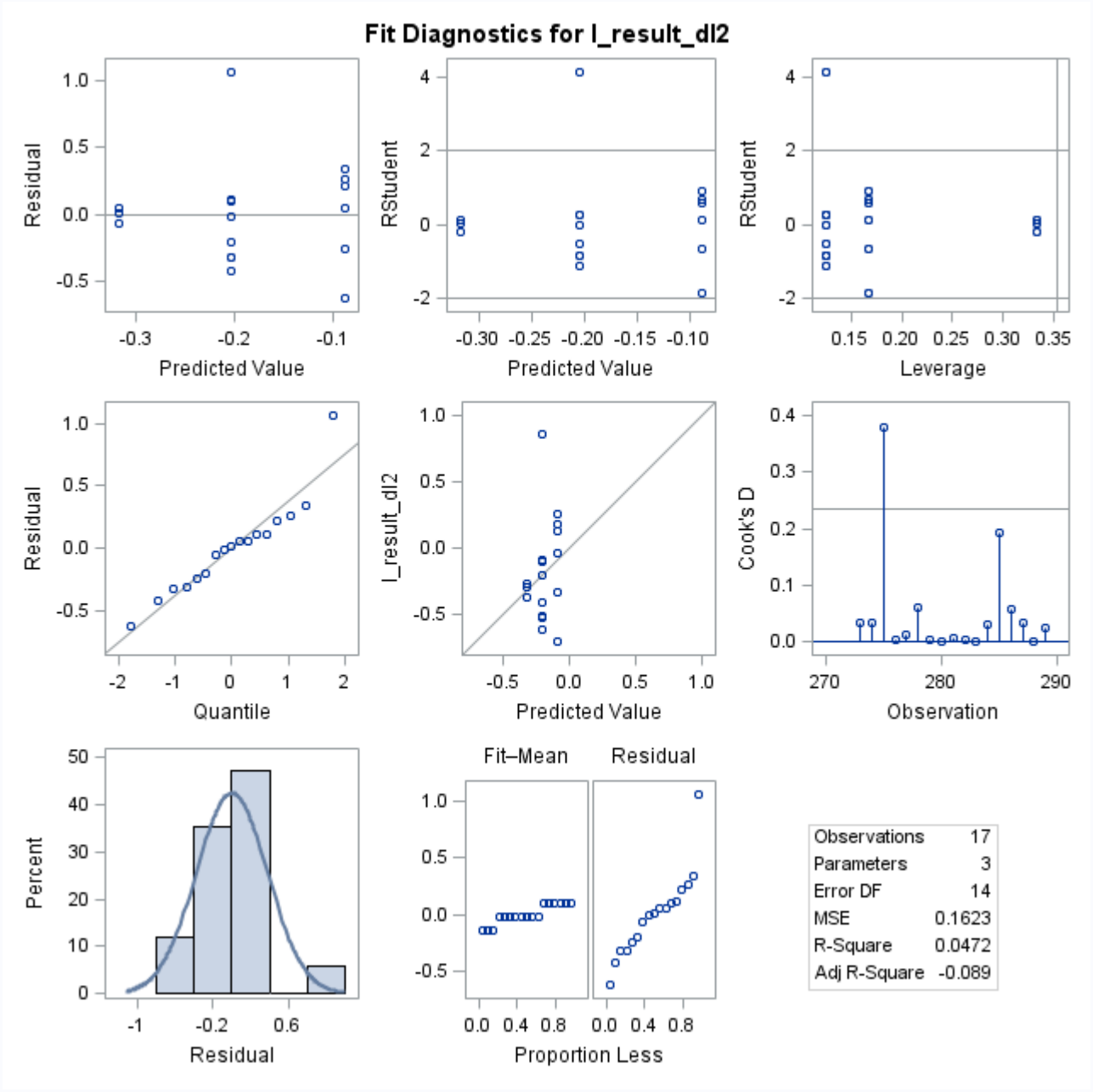
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.11259622	0.05629811	0.35	0.7128
Error	14	2.27190571	0.16227898		
Corrected Total	16	2.38450193			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.047220	-219.6945	0.402839	-0.183363

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.11259622	0.05629811	0.35	0.7128

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.11259622	0.05629811	0.35	0.7128


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.1623
R-Square 0.0472
Adj R-Square -0.089

Metals Arsenic
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0860	0.0430	0.54	0.5957
Error	14	1.1196	0.0800		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.19	0.3512
Error	8.3416		

Metals Arsenic
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	-0.20442999	0.47437026
Southeast	**3**	-0.31803535	0.05602114
Southwest	**6**	-0.08793786	0.37160166

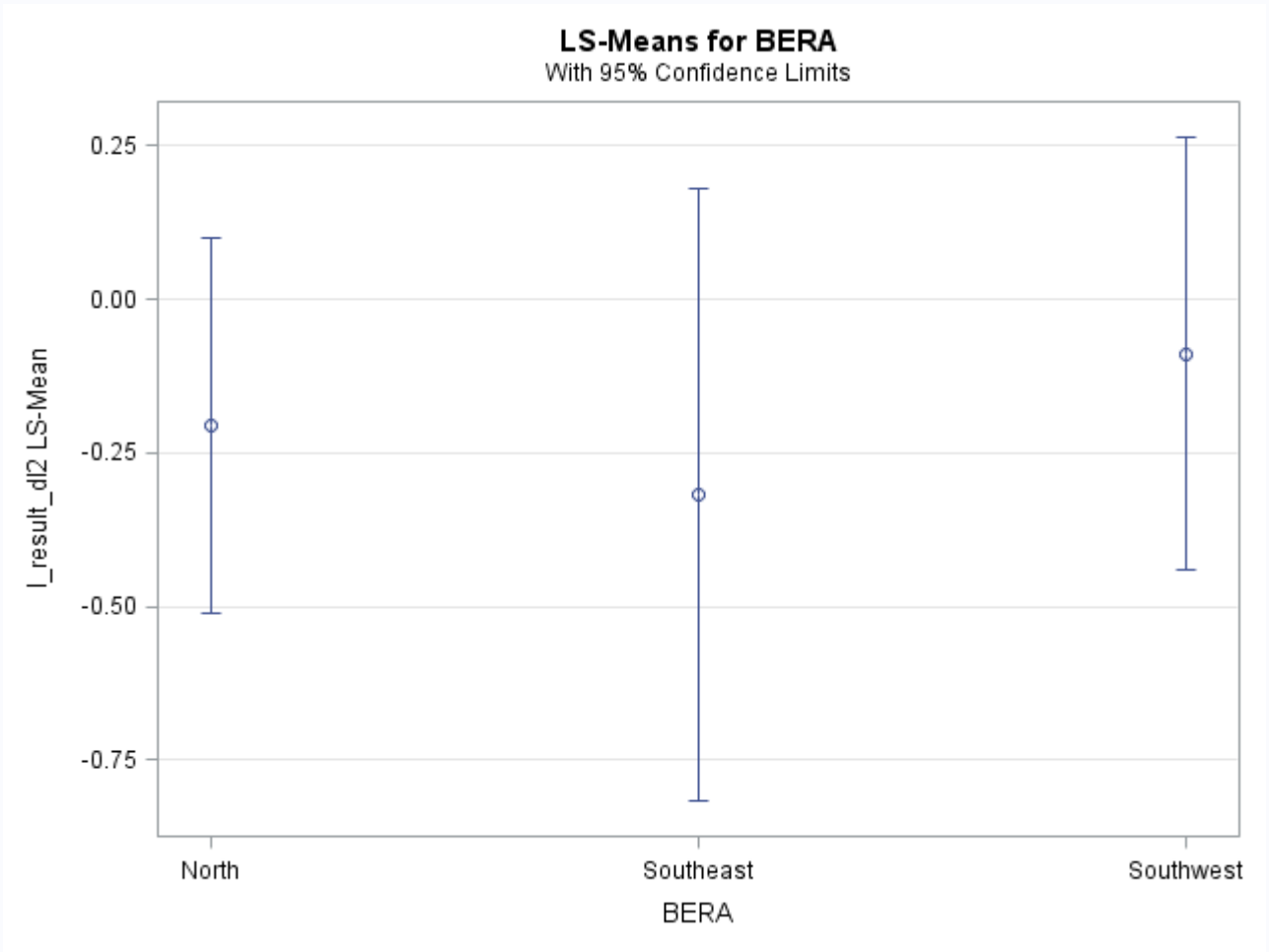
Metals Arsenic
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Arsenic result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.20442999	1
Southeast	-0.31803535	2
Southwest	-0.08793786	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9094	0.8554
2	0.9094		0.7045
3	0.8554	0.7045	


LS-Means for BERA
With 95% Confidence Limits
0.25
0.00
-0.25
-0.50
-0.75
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Chromium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

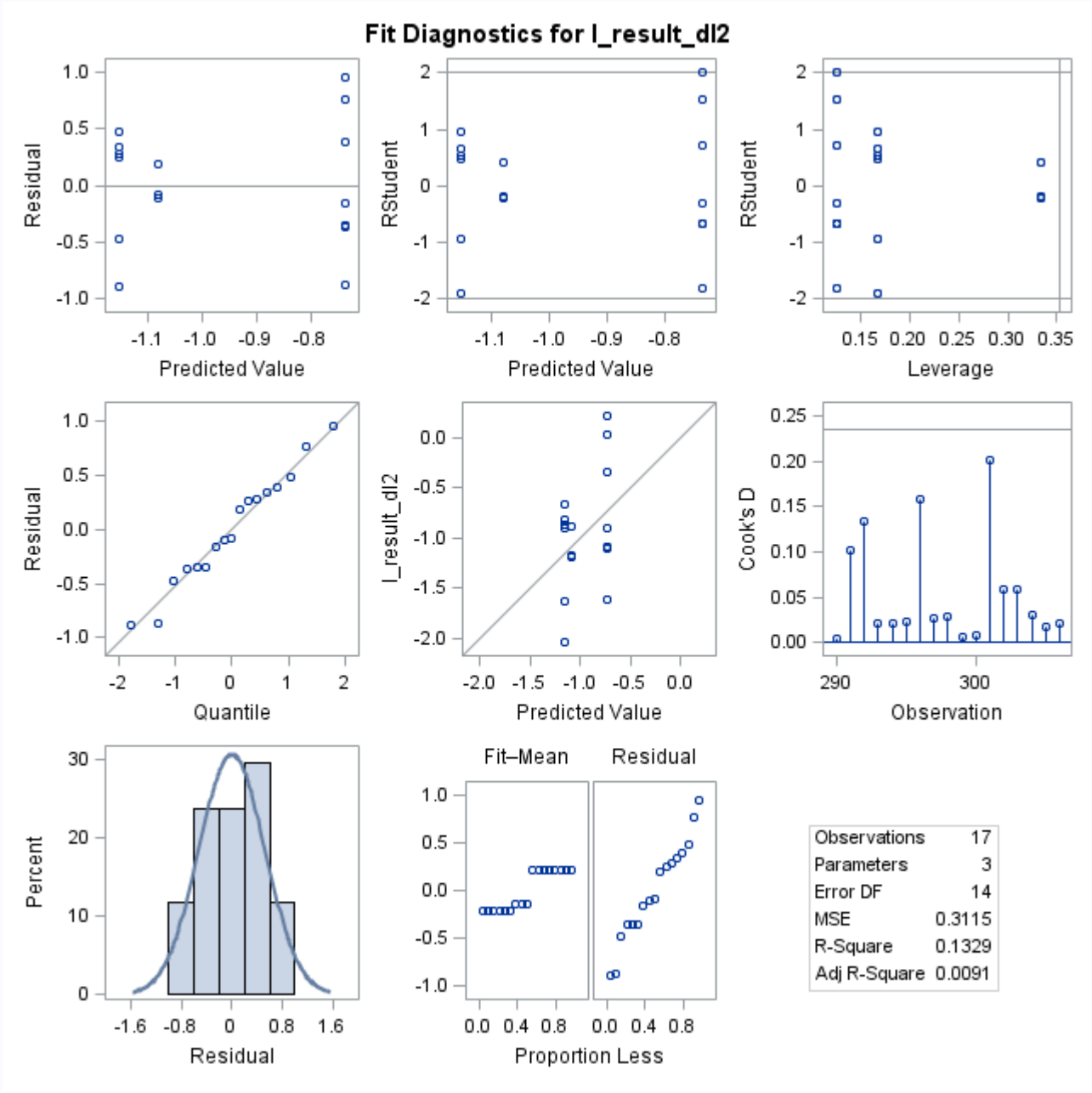
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.66862294	0.33431147	1.07	0.3684
Error	14	4.36119751	0.31151411		
Corrected Total	16	5.02982045			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.132932	-59.09387	0.558134	-0.944488

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.66862294	0.33431147	1.07	0.3684

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.66862294	0.33431147	1.07	0.3684


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.3115
R-Square 0.1329
Adj R-Square 0.0091

Metals Chromium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2420	0.1210	1.42	0.2756
Error	14	1.1969	0.0855		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.07	0.3840
Error	9.0947		

Metals Chromium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	-0.73589585	0.63303379
Southeast	**3**	-1.08017346	0.16359939
Southwest	**6**	-1.15476791	0.54818711

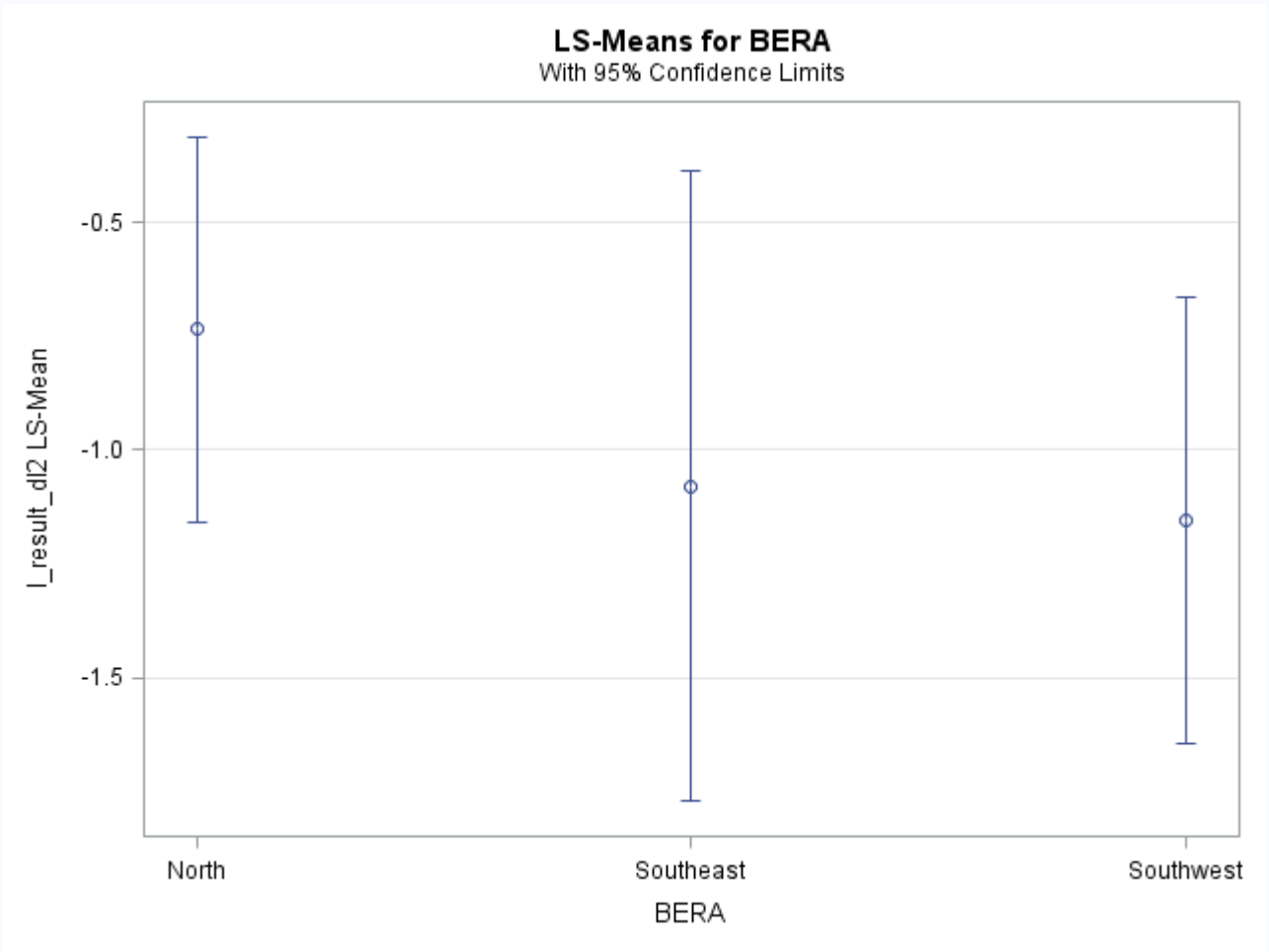
Metals Chromium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Chromium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.73589585	1
Southeast	-1.08017346	2
Southwest	-1.15476791	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.6424	0.3725
2	0.6424		0.9805
3	0.3725	0.9805	


LS-Means for BERA
With 95% Confidence Limits
-0.5
-1.0
-1.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Copper
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

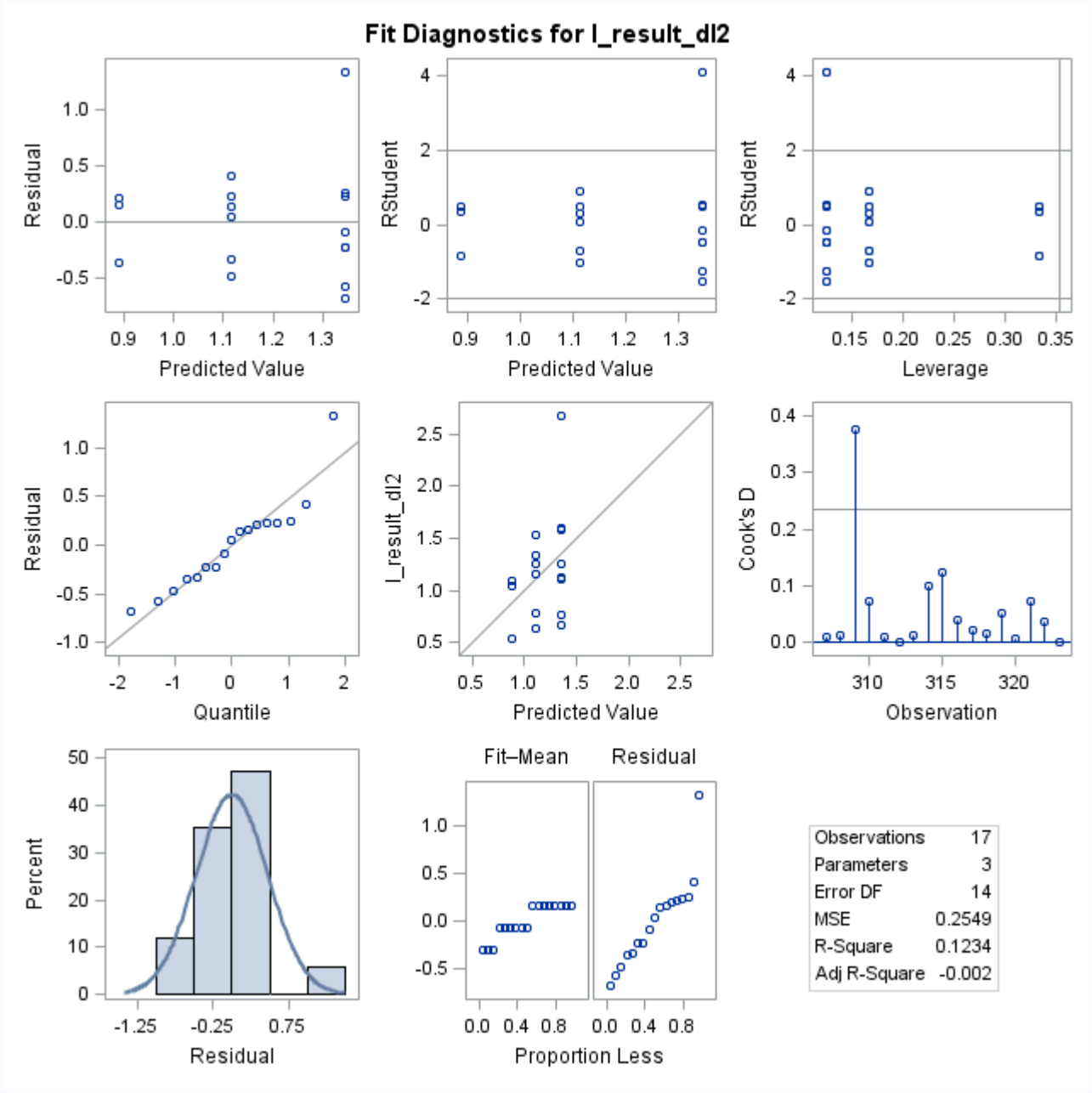
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.50222499	0.25111250	0.99	0.3978
Error	14	3.56810721	0.25486480		
Corrected Total	16	4.07033220			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.123387	42.65421	0.504841	1.183568

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.50222499	0.25111250	0.99	0.3978

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.50222499	0.25111250	0.99	0.3978


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.2549
R-Square 0.1234
Adj R-Square -0.002

Metals Copper
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.2963	0.1481	0.82	0.4599
Error	14	2.5249	0.1804		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.20	0.3580
Error	6.9241		

Metals Copper
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	1.34603872	0.63192419
Southeast	**3**	0.88760942	0.31023138
Southwest	**6**	1.11491831	0.34068252

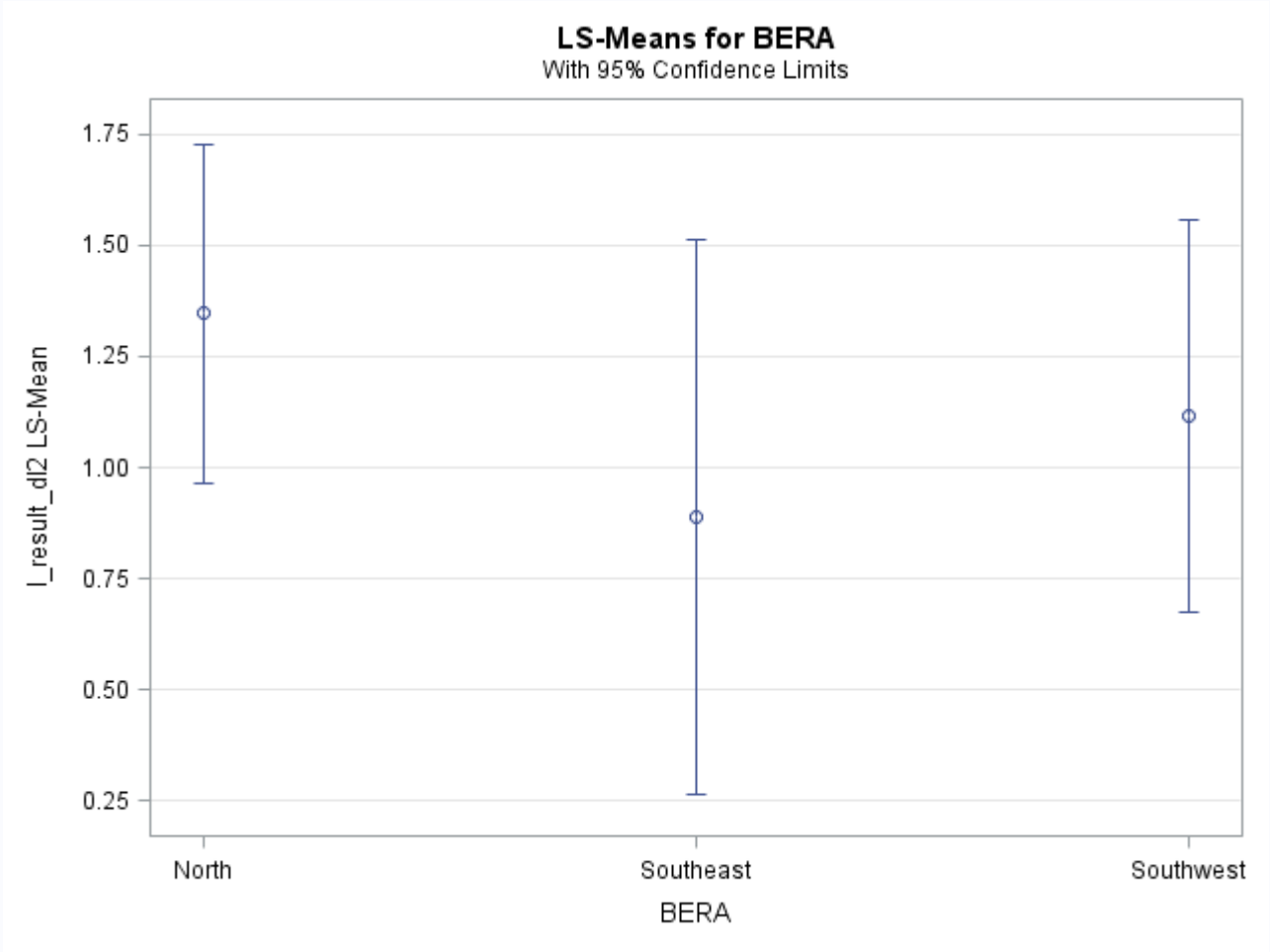
Metals Copper
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Copper result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	1.34603872	1
Southeast	0.88760942	2
Southwest	1.11491831	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.3968	0.6806
2	0.3968		0.8026
3	0.6806	0.8026	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
1.75
1.50
1.25
1.00
0.75
0.50
0.25
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Lead
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

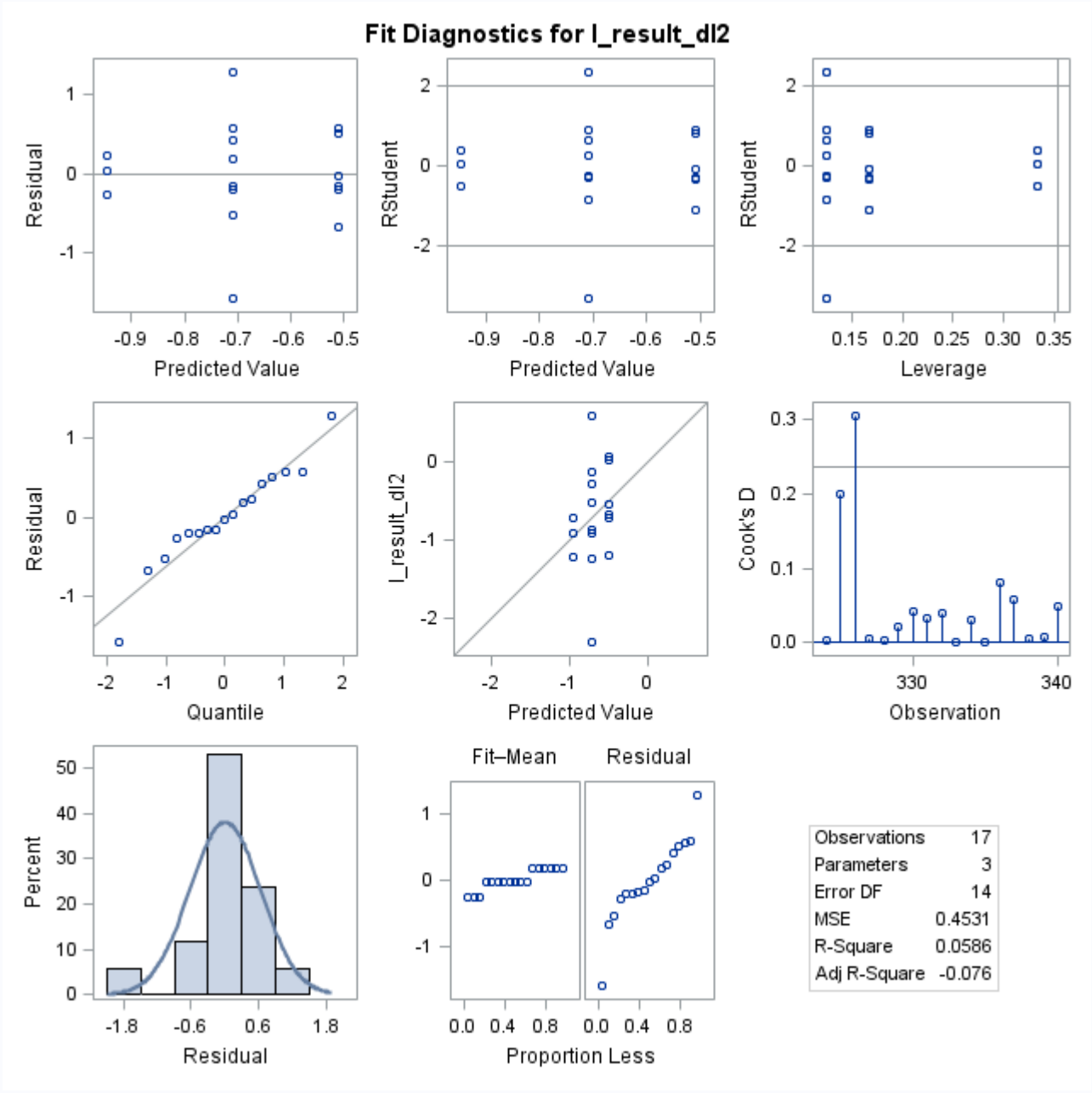
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.39464049	0.19732025	0.44	0.6554
Error	14	6.34307458	0.45307676		
Corrected Total	16	6.73771507			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.058572	-98.91679	0.673110	-0.680481

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.39464049	0.19732025	0.44	0.6554

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.39464049	0.19732025	0.44	0.6554


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.4531
R-Square 0.0586
Adj R-Square -0.076

Metals Lead
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	1.0923	0.5462	1.20	0.3316
Error	14	6.3944	0.4567		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.55	0.2651
Error	8.8651		

Metals Lead
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	-0.70864227	0.85308283
Southeast	**3**	-0.94705563	0.25198846
Southwest	**6**	-0.50964485	0.47367205

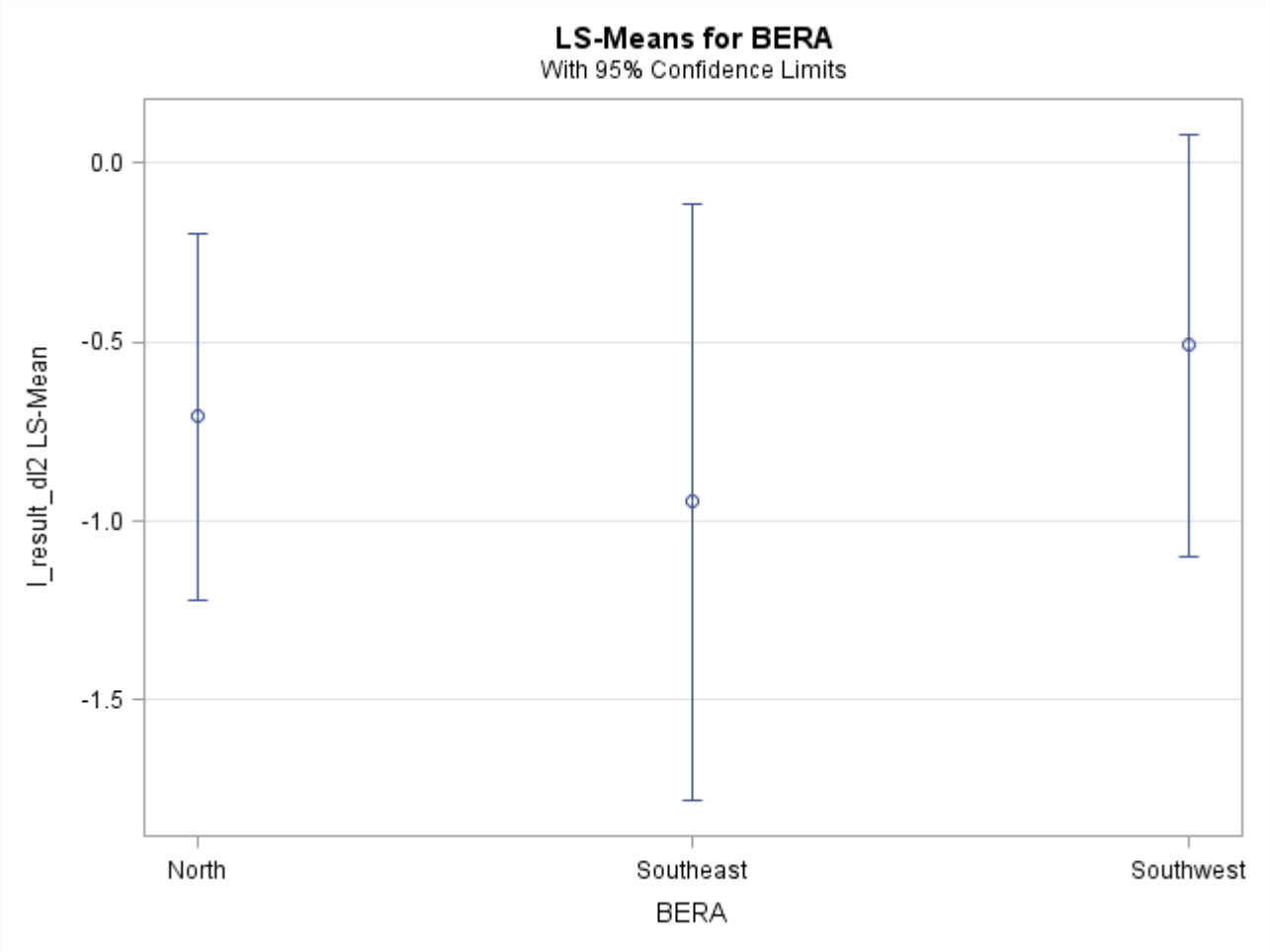
Metals Lead
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Lead result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.70864227	1
Southeast	-0.94705563	2
Southwest	-0.50964485	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8614	0.8494
2	0.8614		0.6376
3	0.8494	0.6376	


LS-Means for BERA
With 95% Confidence Limits
0.0
-0.5
-1.0
-1.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

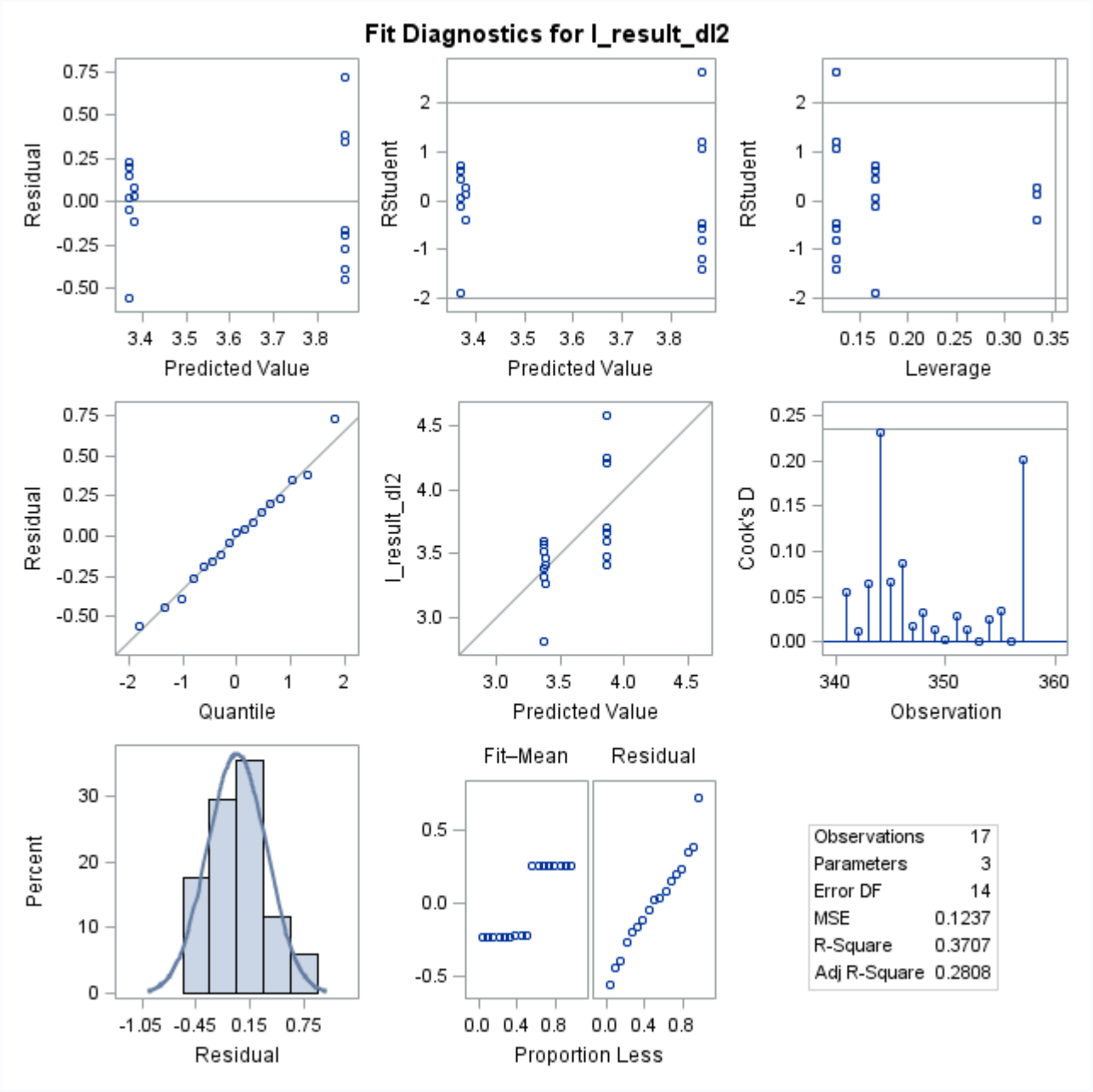
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.01999020	0.50999510	4.12	0.0391
Error	14	1.73161957	0.12368711		
Corrected Total	16	2.75160977			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.370689	9.760105	0.351692	3.603361

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.01999020	0.50999510	4.12	0.0391

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.01999020	0.50999510	4.12	0.0391


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.1237
R-Square 0.3707
Adj R-Square 0.2808

Metals Mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.0592	0.0296	1.67	0.2234
Error	14	0.2479	0.0177		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	4.26	0.0491
Error	9.2022		

Metals Mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	3.86312766	0.42750781
Southeast	**3**	3.38075600	0.10532001
Southwest	**6**	3.36830728	0.29328977

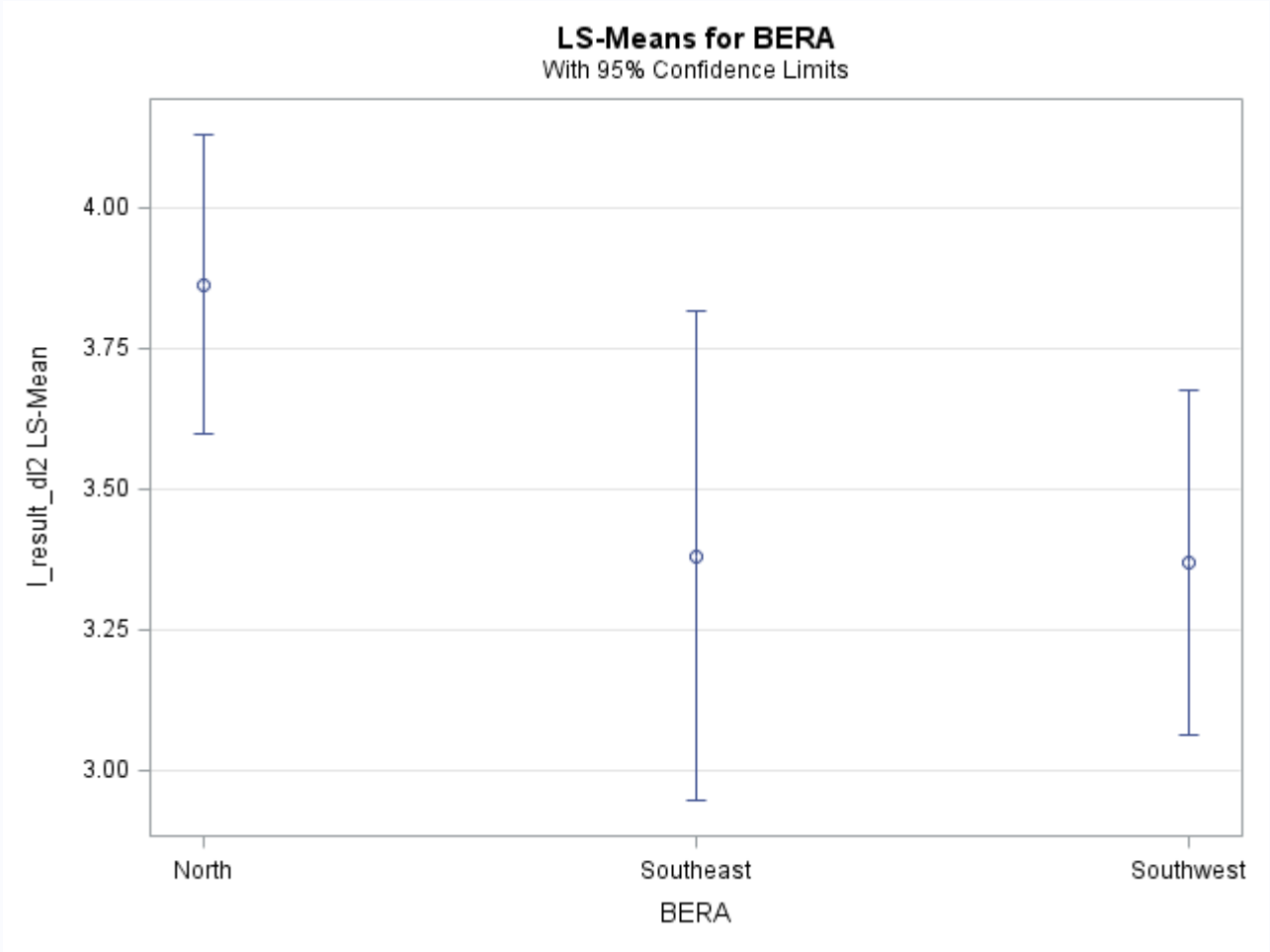
Metals Mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.86312766	1
Southeast	3.38075600	2
Southwest	3.36830728	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1425	0.0511
2	0.1425		0.9986
3	0.0511	0.9986	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.00
3.75
3.50
3.25
3.00
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Methyl mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

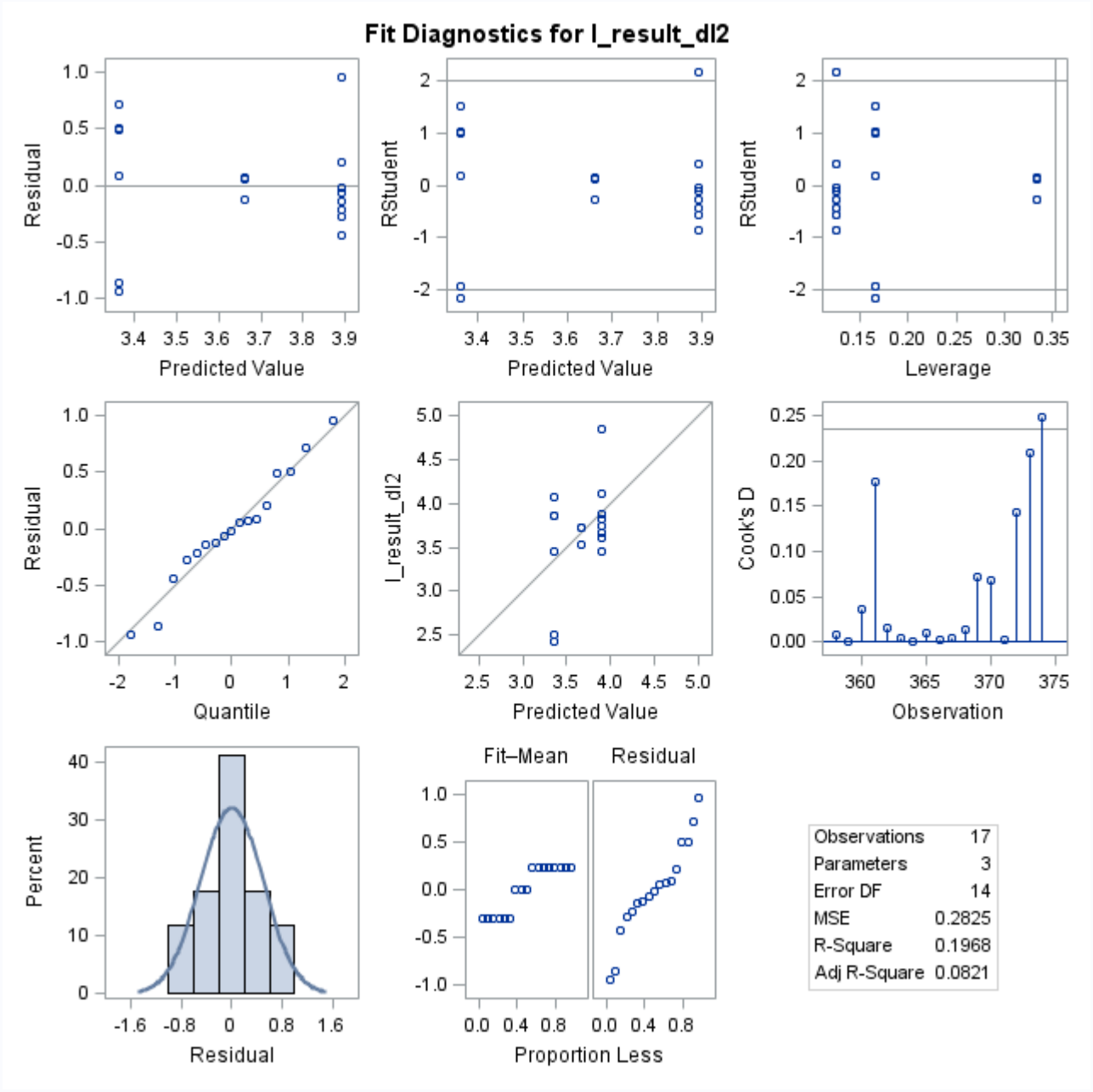
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.96904336	0.48452168	1.72	0.2157
Error	14	3.95501414	0.28250101		
Corrected Total	16	4.92405751			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.196798	14.50868	0.531508	3.663381

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.96904336	0.48452168	1.72	0.2157

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.96904336	0.48452168	1.72	0.2157


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.2825
R-Square 0.1968
Adj R-Square 0.0821

Metals Methyl mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.4388	0.2194	2.51	0.1172
Error	14	1.2242	0.0874		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	1.48	0.2792
Error	8.7029		

Metals Methyl mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	3.89203195	0.43273308
Southeast	**3**	3.65958802	0.11040480
Southwest	**6**	3.36040956	0.72385500

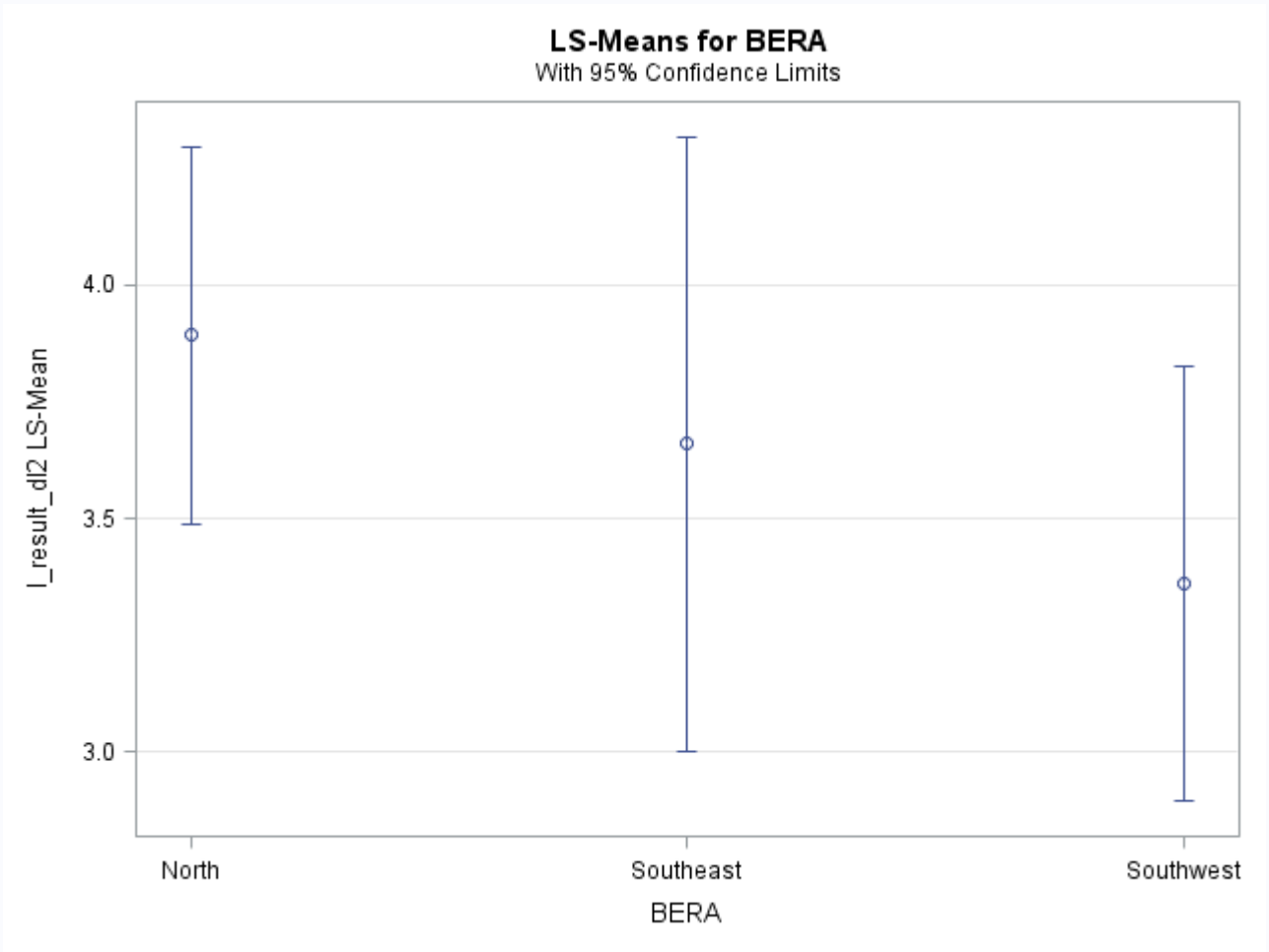
Metals Methyl mercury
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Methyl mercury result_unit=ng/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.89203195	1
Southeast	3.65958802	2
Southwest	3.36040956	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.7976	0.1893
2	0.7976		0.7115
3	0.1893	0.7115	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.0
3.5
3.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Selenium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

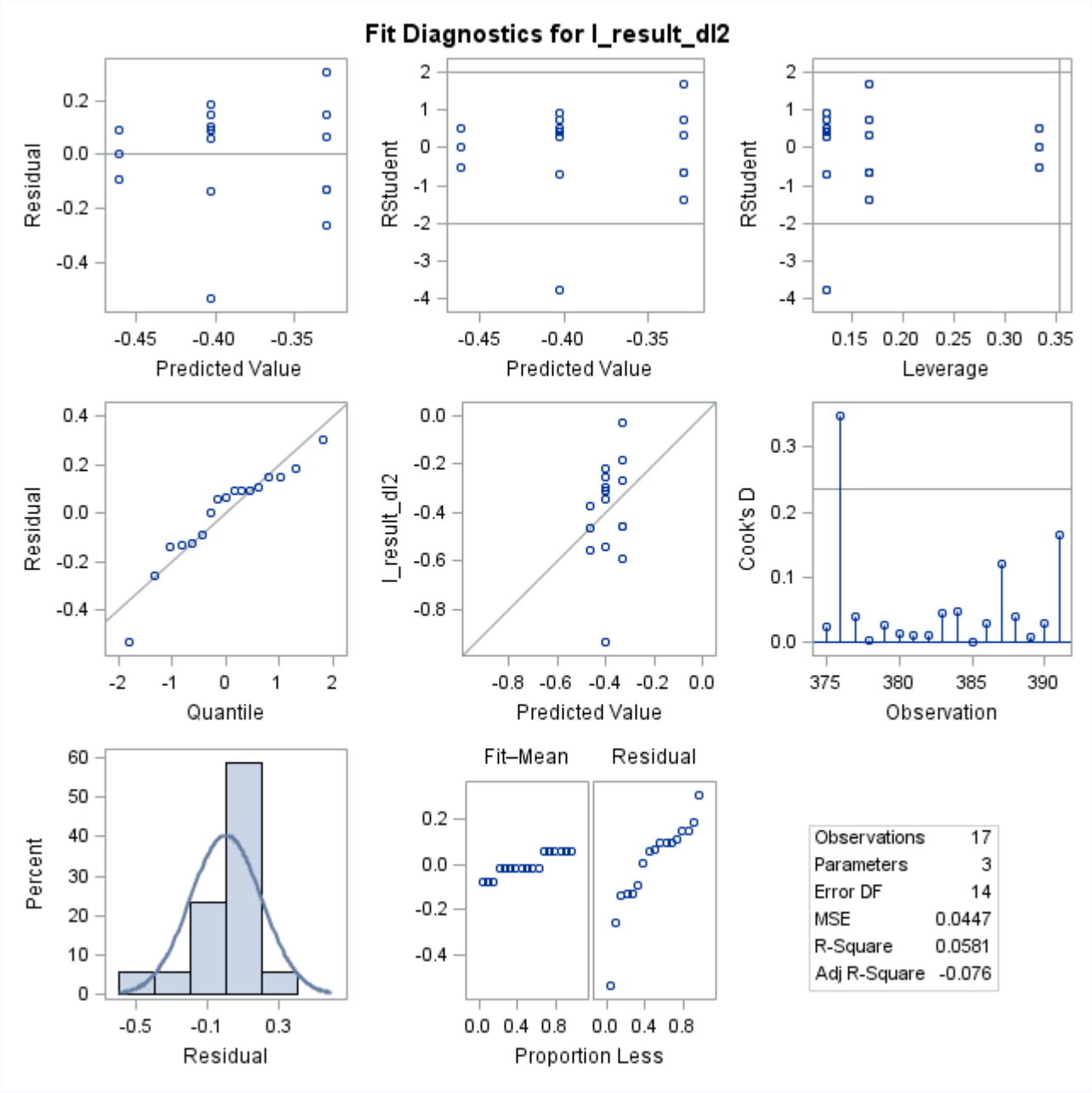
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.03858734	0.01929367	0.43	0.6577
Error	14	0.62565365	0.04468955		
Corrected Total	16	0.66424099			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.058092	-54.61459	0.211399	-0.387074

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.03858734	0.01929367	0.43	0.6577

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.03858734	0.01929367	0.43	0.6577


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.0447
R-Square 0.0581
Adj R-Square -0.076

Metals Selenium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00407	0.00204	0.40	0.6759
Error	14	0.0707	0.00505		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	0.83	0.4661
Error	8.7313		

Metals Selenium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	-0.40243961	0.23598752
Southeast	**3**	-0.46163278	0.09116654
Southwest	**6**	-0.32930796	0.20938014

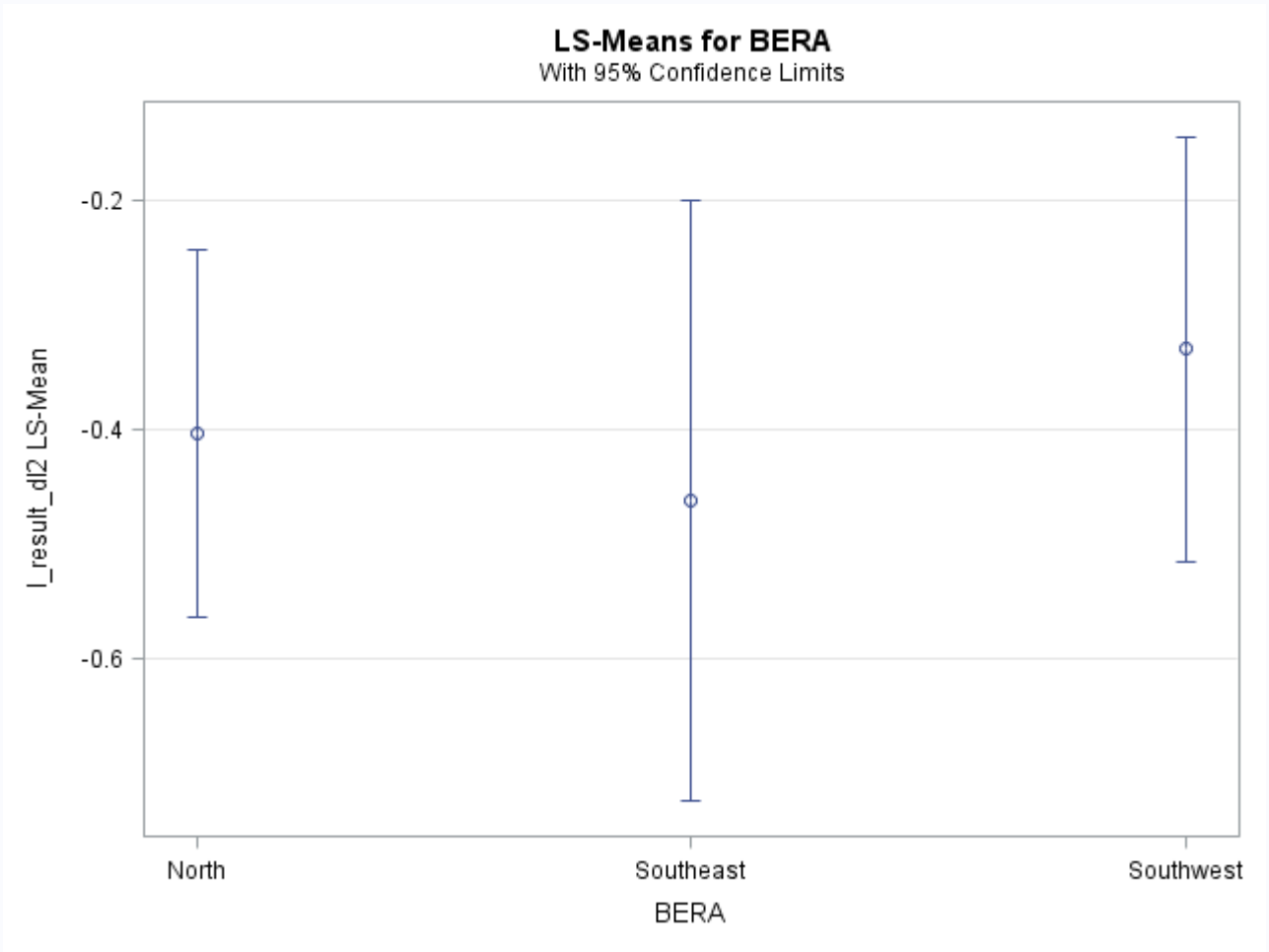
Metals Selenium
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Selenium result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-0.40243961	1
Southeast	-0.46163278	2
Southwest	-0.32930796	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9106	0.8006
2	0.9106		0.6580
3	0.8006	0.6580	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
-0.2
-0.4
-0.6
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Silver
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

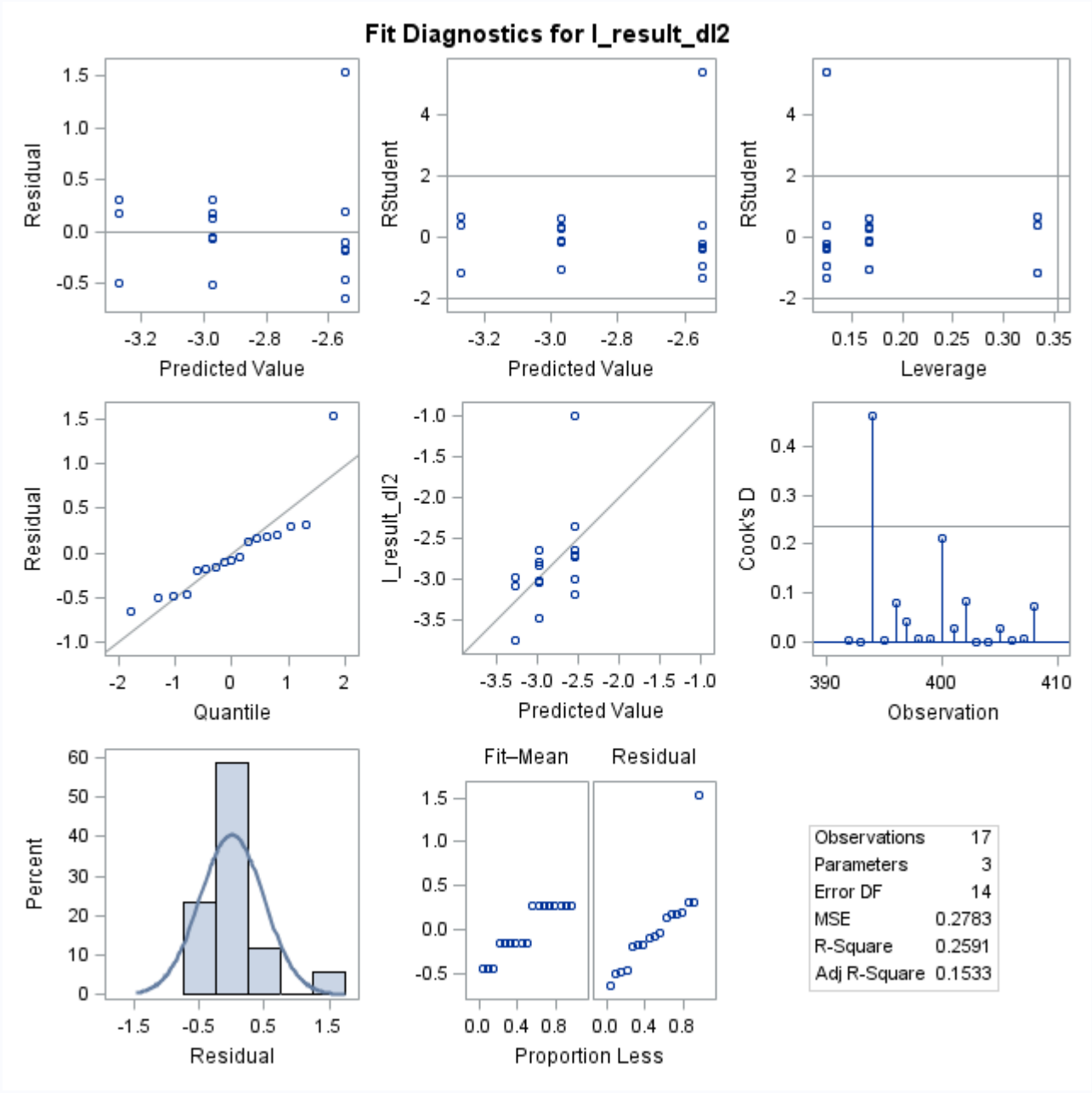
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	1.36269650	0.68134825	2.45	0.1225
Error	14	3.89655282	0.27832520		
Corrected Total	16	5.25924932			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.259105	-18.67216	0.527565	-2.825412

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	1.36269650	0.68134825	2.45	0.1225

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	1.36269650	0.68134825	2.45	0.1225


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.2783
R-Square 0.2591
Adj R-Square 0.1533

Metals Silver
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.3987	0.1994	0.60	0.5607
Error	14	4.6282	0.3306		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.11	0.2070
Error	5.5986		

Metals Silver
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	-2.54595762	0.66812575
Southeast	**3**	-3.27525530	0.42364286
Southwest	**6**	-2.97309493	0.28735419

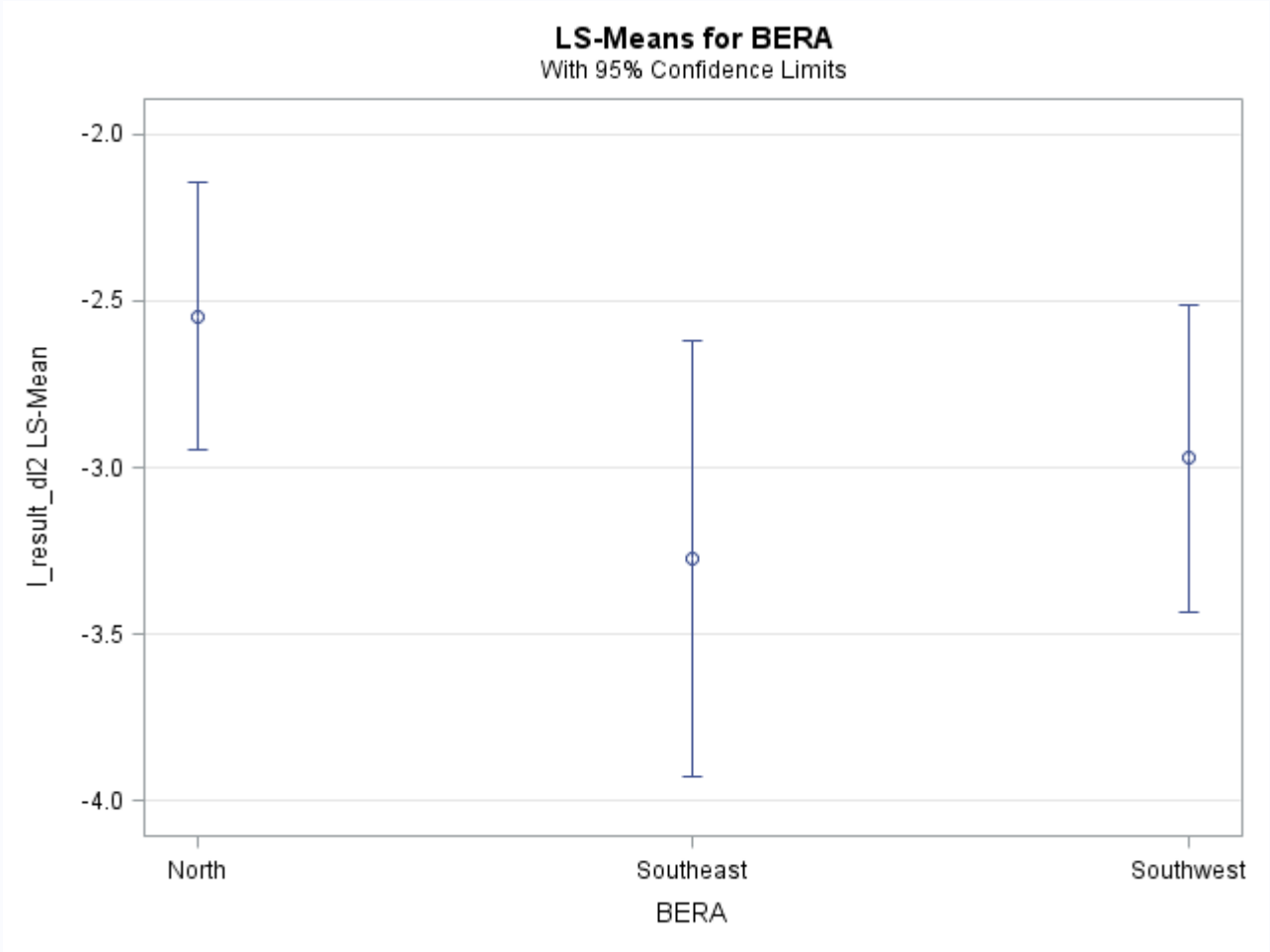
Metals Silver
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Silver result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	-2.54595762	1
Southeast	-3.27525530	2
Southwest	-2.97309493	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1387	0.3211
2	0.1387		0.7032
3	0.3211	0.7032	


LS-Means for BERA
With 95% Confidence Limits
-2.0
-2.5
-3.0
-3.5
-4.0
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Metals Zinc
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure

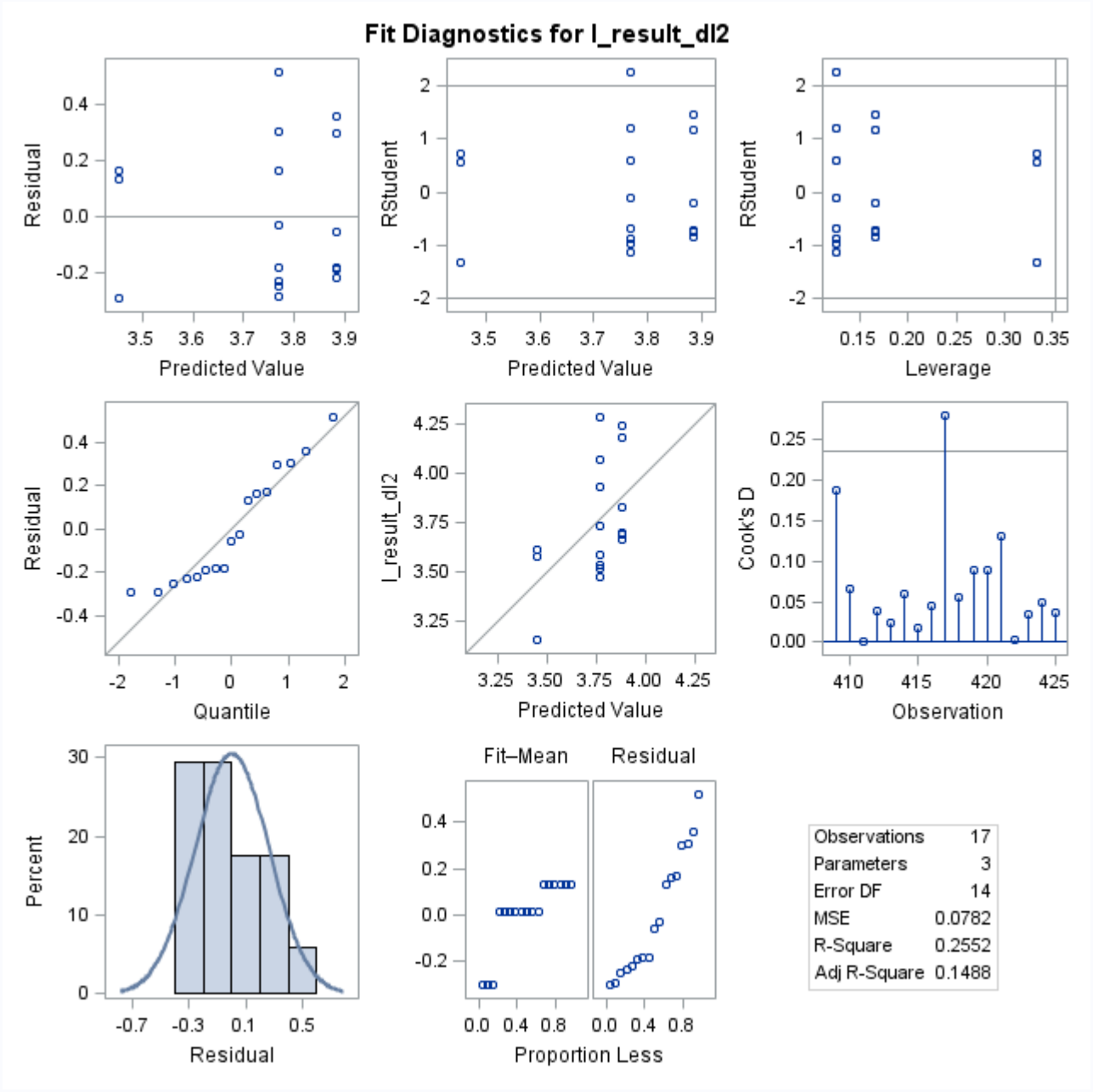
Dependent Variable: l_result_dl2
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	2	0.37498912	0.18749456	2.40	0.1271
Error	14	1.09418158	0.07815583		
Corrected Total	16	1.46917071			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.255239	7.448046	0.279564	3.753517

Source	DF	Type I SS	Mean Square	F Value	Pr > F
BERA	2	0.37498912	0.18749456	2.40	0.1271

Source	DF	Type III SS	Mean Square	F Value	Pr > F
BERA	2	0.37498912	0.18749456	2.40	0.1271


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 3
Error DF 14
MSE 0.0782
R-Square 0.2552
Adj R-Square 0.1488

Metals Zinc
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Levene's Test for Homogeneity of l_result_dl2 Variance
ANOVA of Squared Deviations from Group Means

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
BERA	2	0.00307	0.00153	0.35	0.7090
Error	14	0.0609	0.00435		

Welch's ANOVA for l_result_dl2

Source	DF	F Value	Pr > F
BERA	2.0000	2.53	0.1590
Error	6.0335		

Metals Zinc
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

Level of BERA	N	l_result_dl2	
		Mean	Std Dev
North	**8**	3.76803244	0.29832826
Southeast	**3**	3.45317090	0.25710372
Southwest	**6**	3.88433506	0.26037615

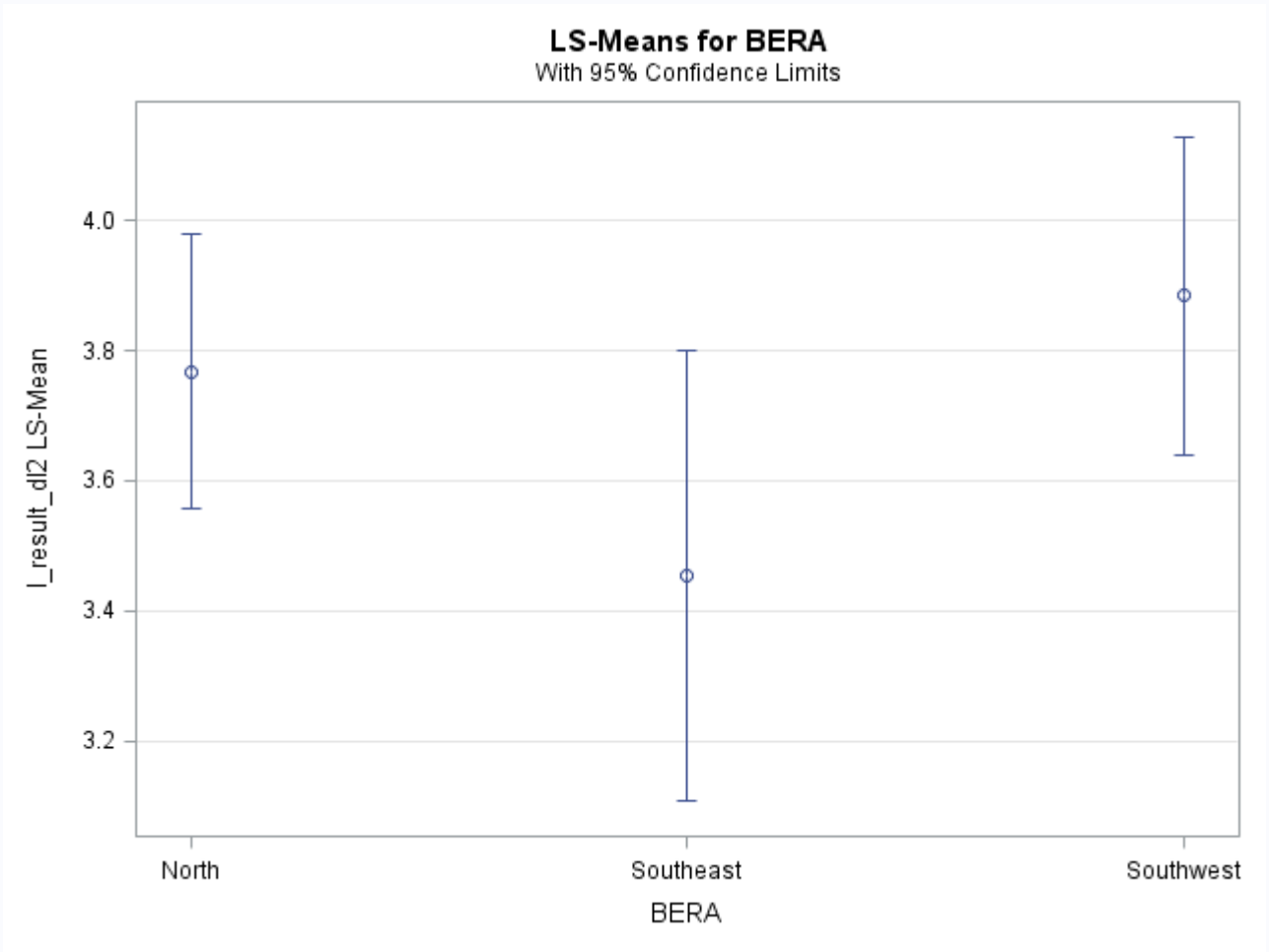
Metals Zinc
NBSA Whole Body Fundulus Spp. ANOVA by BERA Assessment Zone

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=7 parameter_group=Metals chemical_name=Zinc result_unit=mg/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.76803244	1
Southeast	3.45317090	2
Southwest	3.88433506	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2532	0.7267
2	0.2532		0.1094
3	0.7267	0.1094	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4.0
3.8
3.6
3.4
3.2
North
Southeast
Southwest
BERA

The GLM Procedure
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

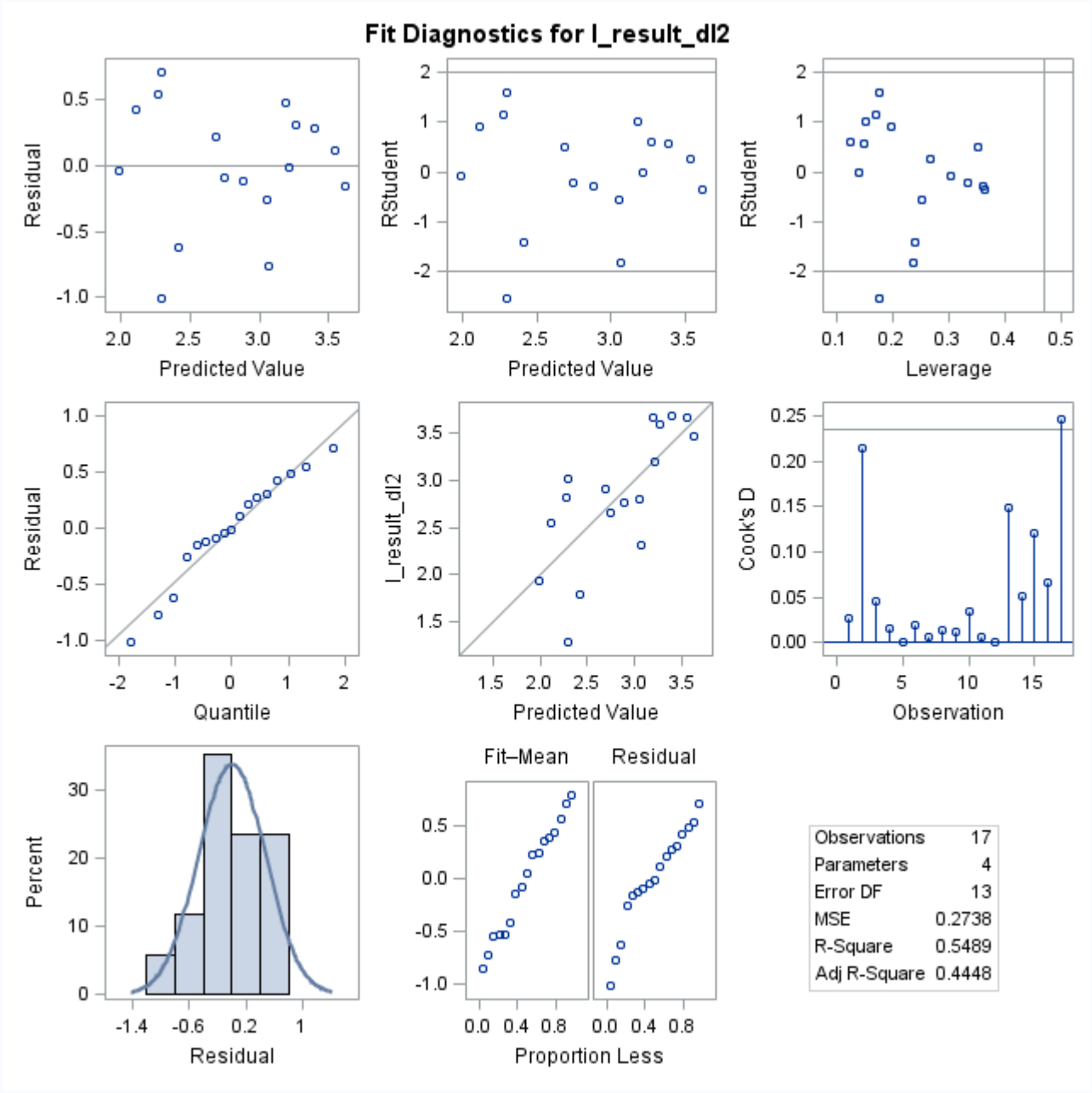
Dependent Variable: l_result_dl2
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	4.33090192	1.44363397	5.27	0.0134
Error	13	3.55906580	0.27377429		
Corrected Total	16	7.88996772			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.548913	18.51359	0.523234	2.826218

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.24635513	0.24635513	0.90	0.3601
BERA	2	4.08454679	2.04227339	7.46	0.0070

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.44296834	0.44296834	1.62	0.2257
BERA	2	4.08454679	2.04227339	7.46	0.0070


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.2738
R-Square 0.5489
Adj R-Square 0.4448

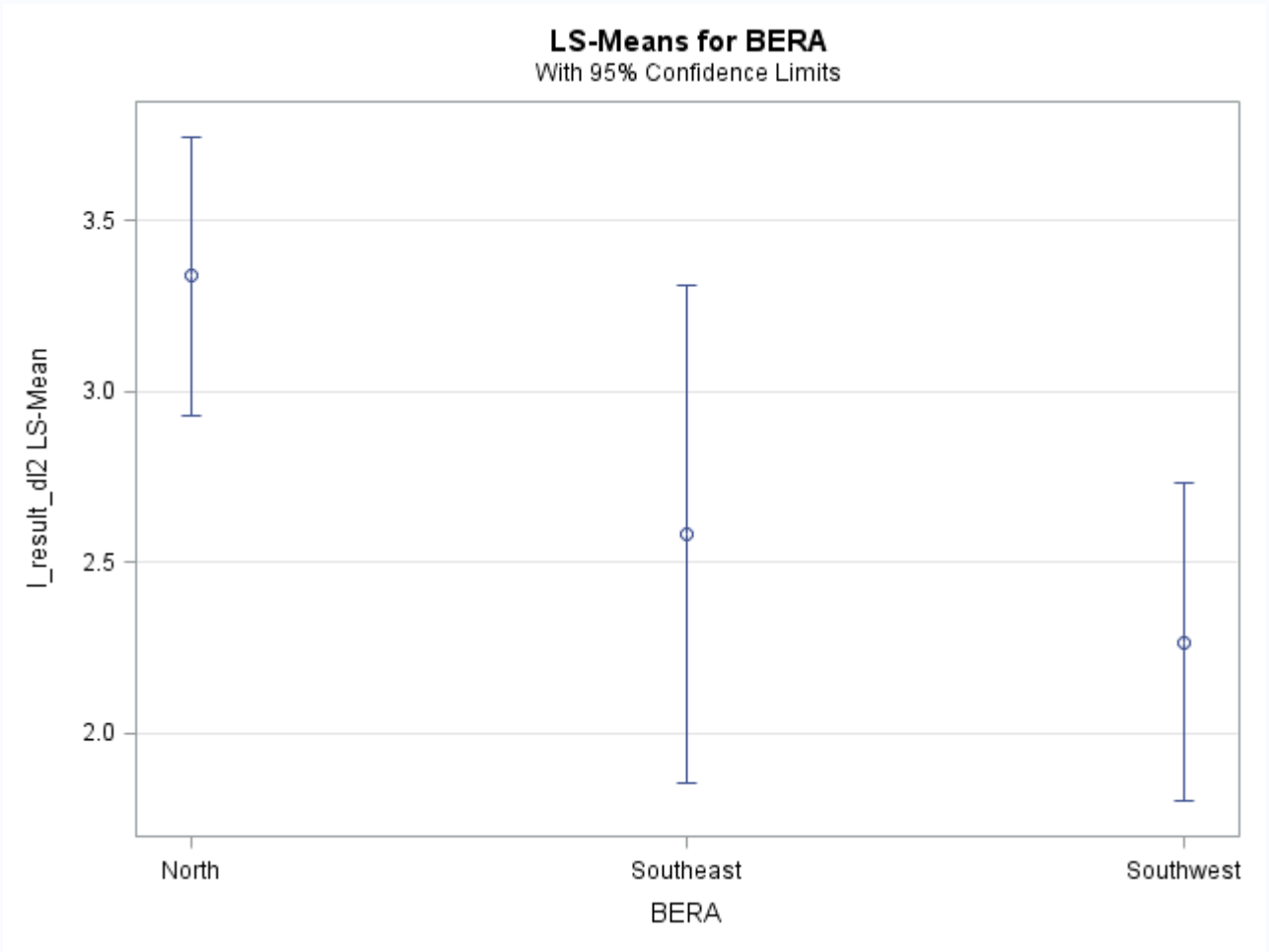
Dioxins/Furans 2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=1 parameter_group=Dioxins/Furans chemical_name=2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD) result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.33786938	1
Southeast	2.58052917	2
Southwest	2.26686112	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1782	0.0059
2	0.1782		0.7304
3	0.0059	0.7304	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3.5
3.0
2.5
2.0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

PCBs Total PCBs congener (209 specified)
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

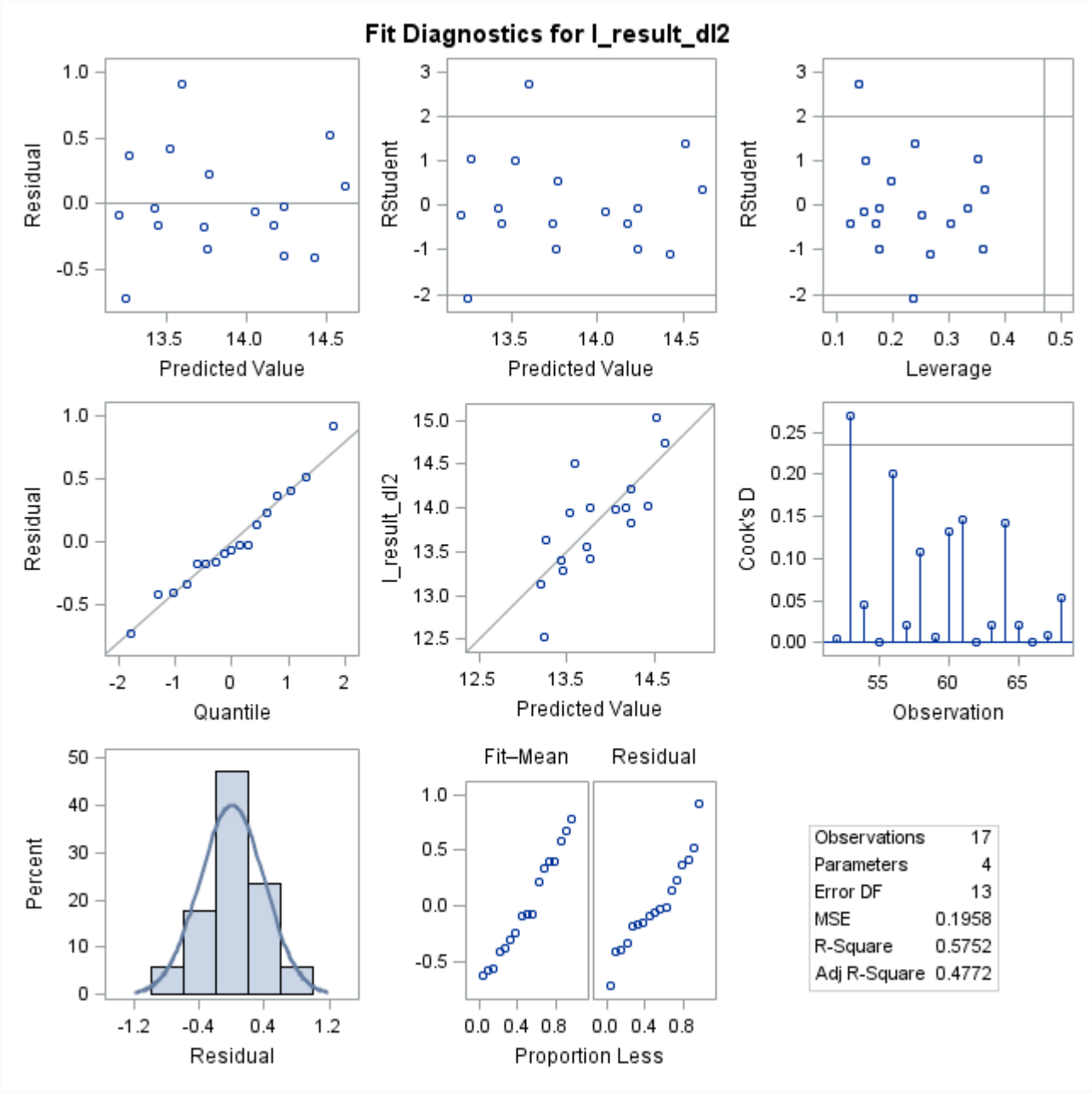
Dependent Variable: l_result_dl2
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.44656888	1.14885629	5.87	0.0092
Error	13	2.54549360	0.19580720		
Corrected Total	16	5.99206248			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.575189	3.197813	0.442501	13.83762

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.32211447	1.32211447	6.75	0.0221
BERA	2	2.12445440	1.06222720	5.42	0.0194

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	2.76231767	2.76231767	14.11	0.0024
BERA	2	2.12445440	1.06222720	5.42	0.0194


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.1958
R-Square 0.5752
Adj R-Square 0.4772

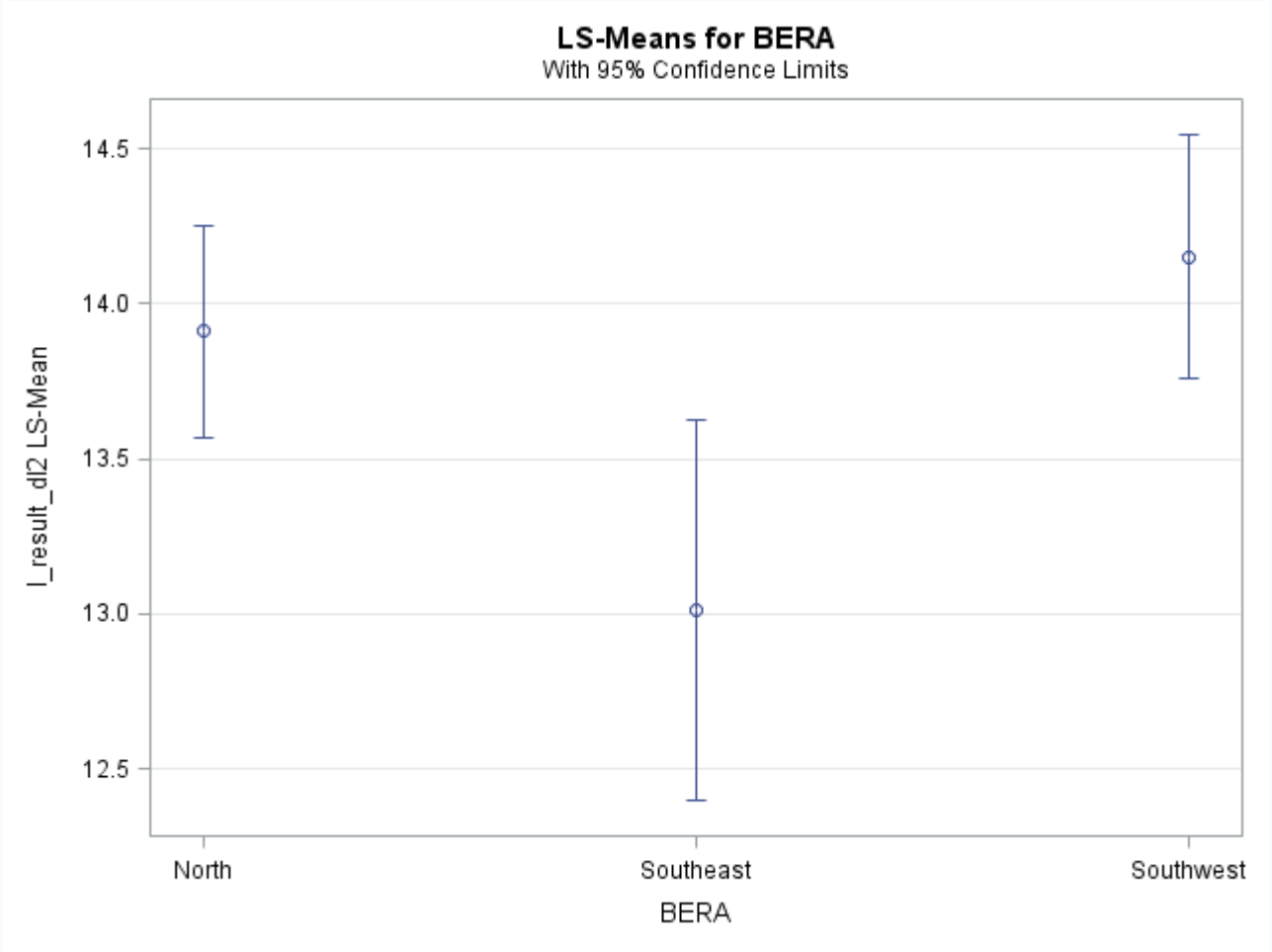
PCBs Total PCBs congener (209 specified)
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=2 parameter_group=PCBs chemical_name=Total PCBs congener (209 specified)
result_unit=ng/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	13.9104550	1
Southeast	13.0136423	2
Southwest	14.1524871	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.0483	0.5823
2	0.0483		0.0153
3	0.5823	0.0153	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
14.5
14.0
13.5
13.0
12.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Dieldrin
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

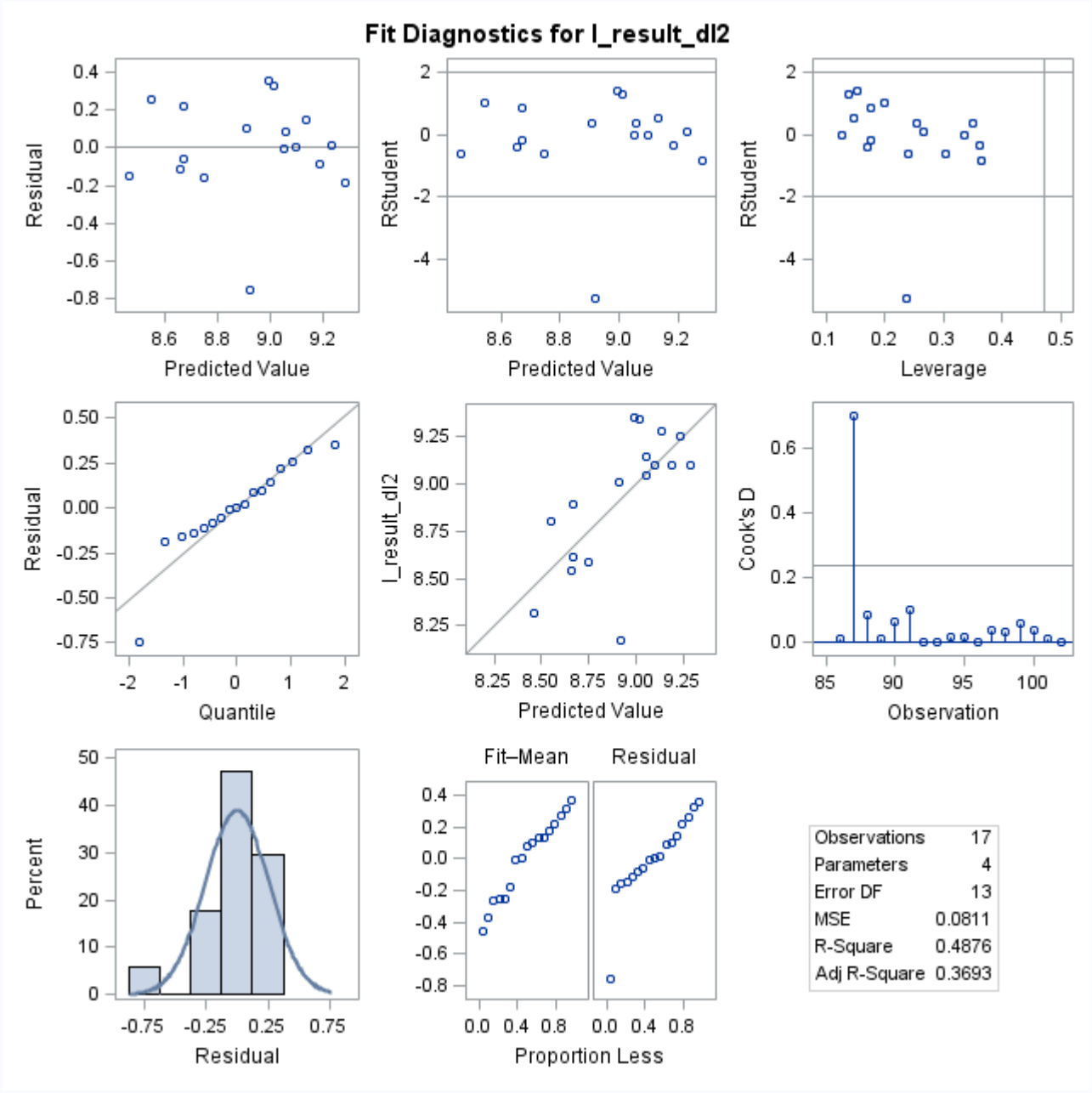
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.00328120	0.33442707	4.12	0.0293
Error	13	1.05448192	0.08111399		
Corrected Total	16	2.05776312			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.487559	3.193249	0.284805	8.918977

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.30096163	0.30096163	3.71	0.0762
BERA	2	0.70231957	0.35115978	4.33	0.0362

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.19450425	0.19450425	2.40	0.1455
BERA	2	0.70231957	0.35115978	4.33	0.0362


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.0811
R-Square 0.4876
Adj R-Square 0.3693

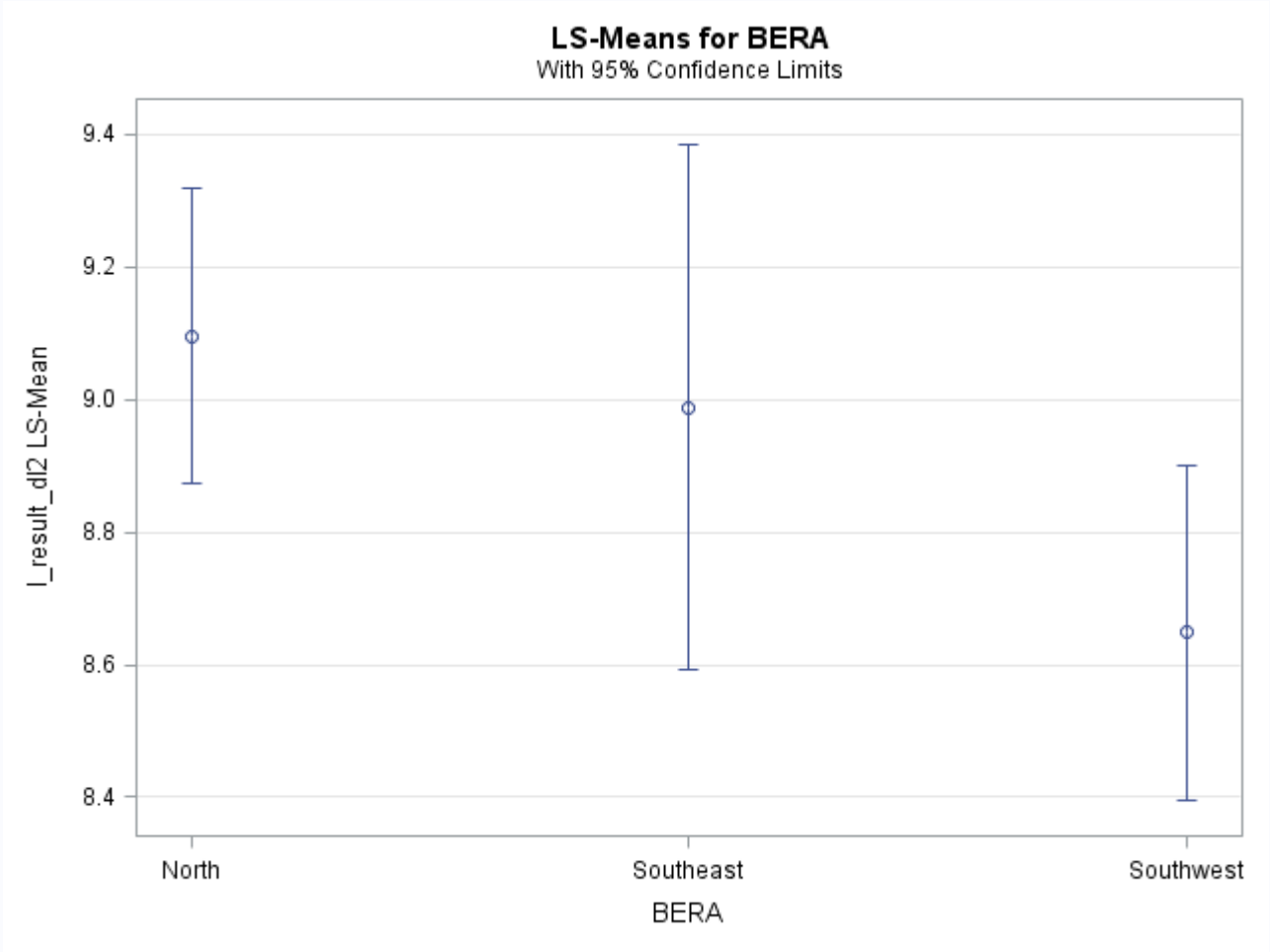
Pesticides Dieldrin
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Dieldrin result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.09618016	1
Southeast	8.98754376	2
Southwest	8.64842394	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8724	0.0305
2	0.8724		0.3145
3	0.0305	0.3145	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.4
9.2
9.0
8.8
8.6
8.4
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Heptachlor epoxide
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

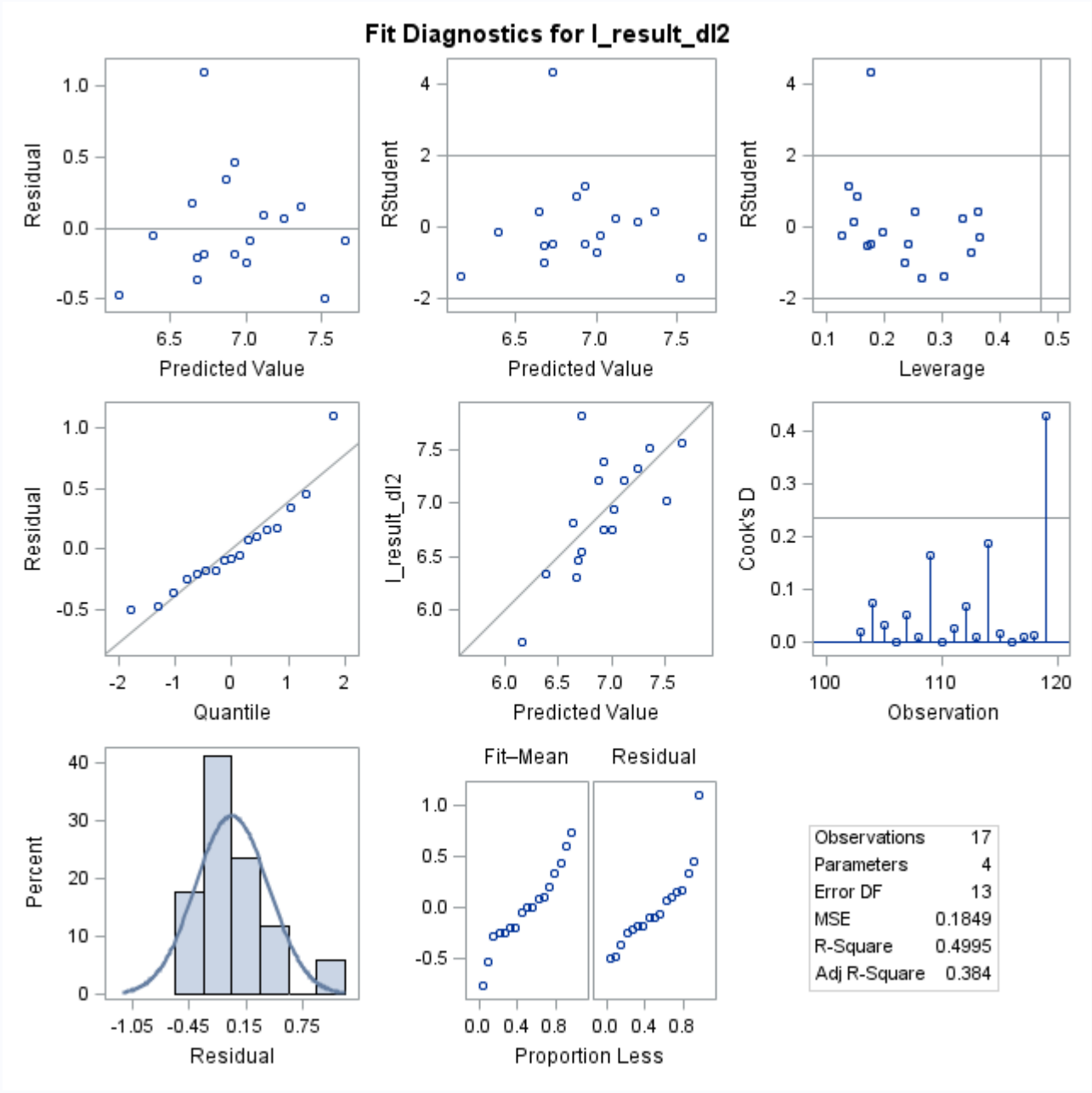
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.39930808	0.79976936	4.32	0.0254
Error	13	2.40421259	0.18493943		
Corrected Total	16	4.80352067			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.499489	6.214108	0.430046	6.920476

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.57092109	1.57092109	8.49	0.0121
BERA	2	0.82838699	0.41419350	2.24	0.1460

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.42995390	1.42995390	7.73	0.0156
BERA	2	0.82838699	0.41419350	2.24	0.1460


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.1849
R-Square 0.4995
Adj R-Square 0.384

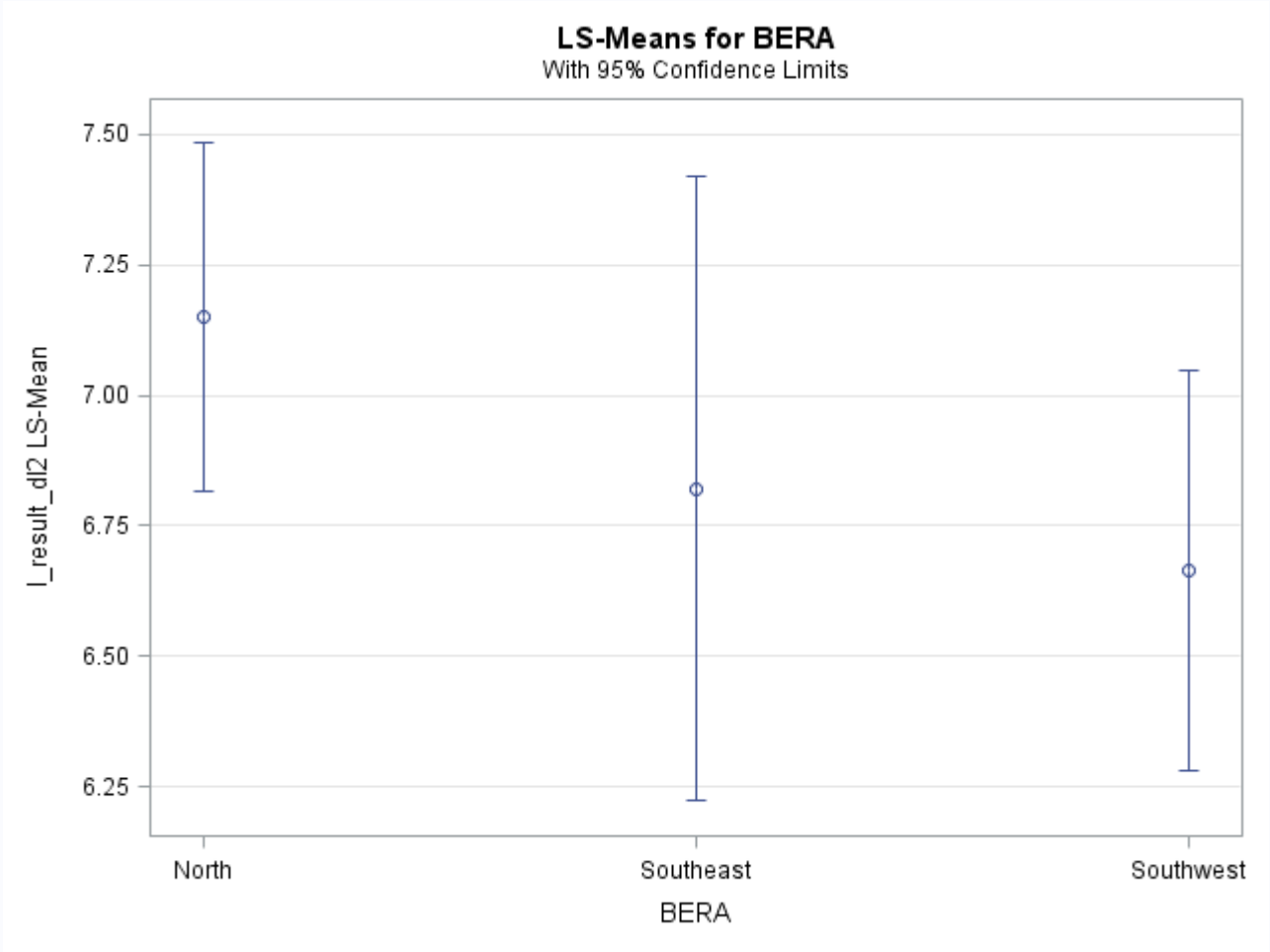
Pesticides Heptachlor epoxide
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Heptachlor epoxide result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	7.14929859	1
Southeast	6.82110595	2
Southwest	6.66506500	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5890	0.1318
2	0.5890		0.8896
3	0.1318	0.8896	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
7.50
7.25
7.00
6.75
6.50
6.25
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Hexachlorobenzene
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

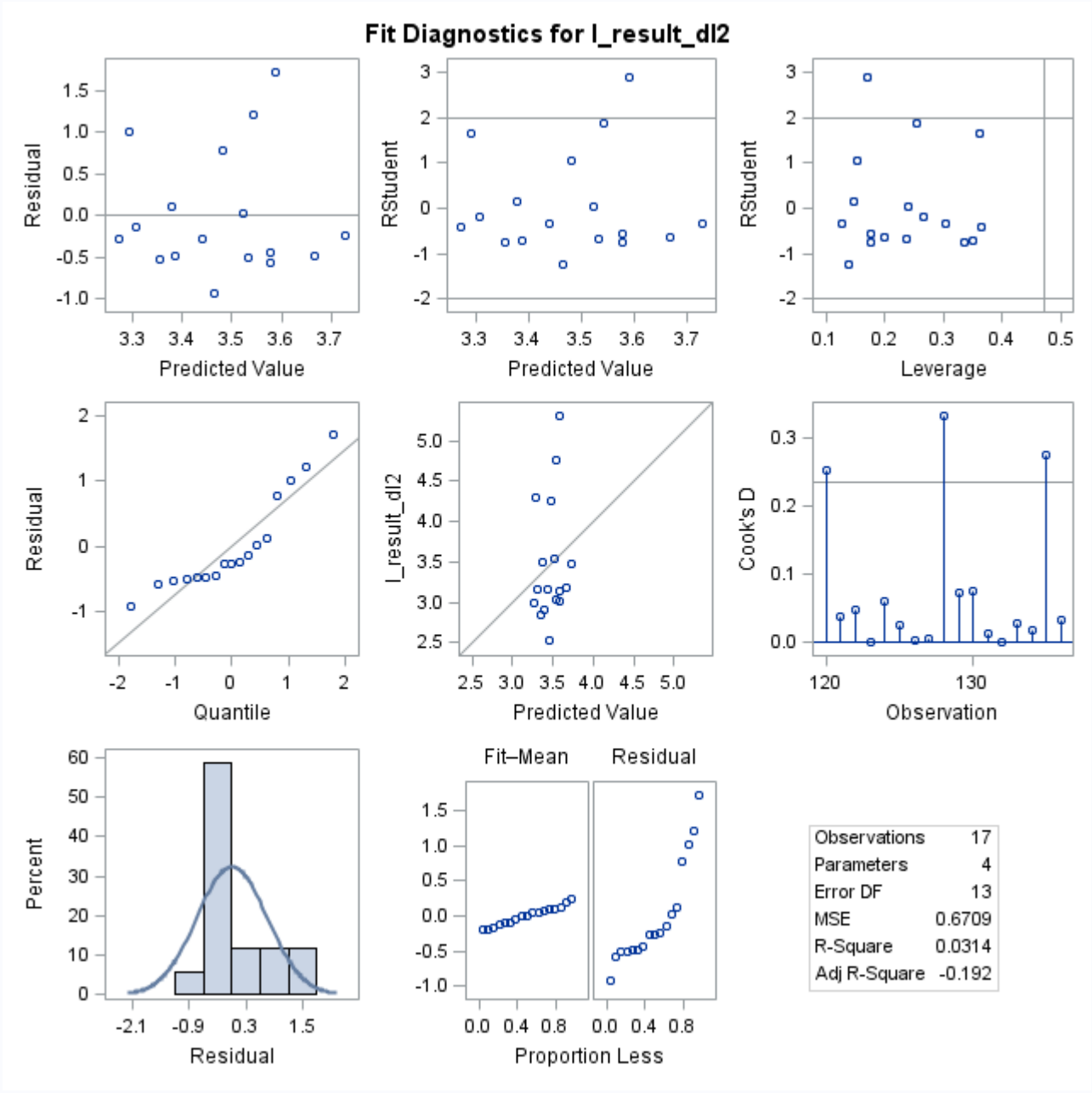
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	0.28286682	0.09428894	0.14	0.9339
Error	13	8.72166316	0.67089717		
Corrected Total	16	9.00452998			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.031414	23.55600	0.819083	3.477173

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.15679391	0.15679391	0.23	0.6368
BERA	2	0.12607291	0.06303645	0.09	0.9109

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.10237009	0.10237009	0.15	0.7024
BERA	2	0.12607291	0.06303645	0.09	0.9109


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.6709
R-Square 0.0314
Adj R-Square -0.192

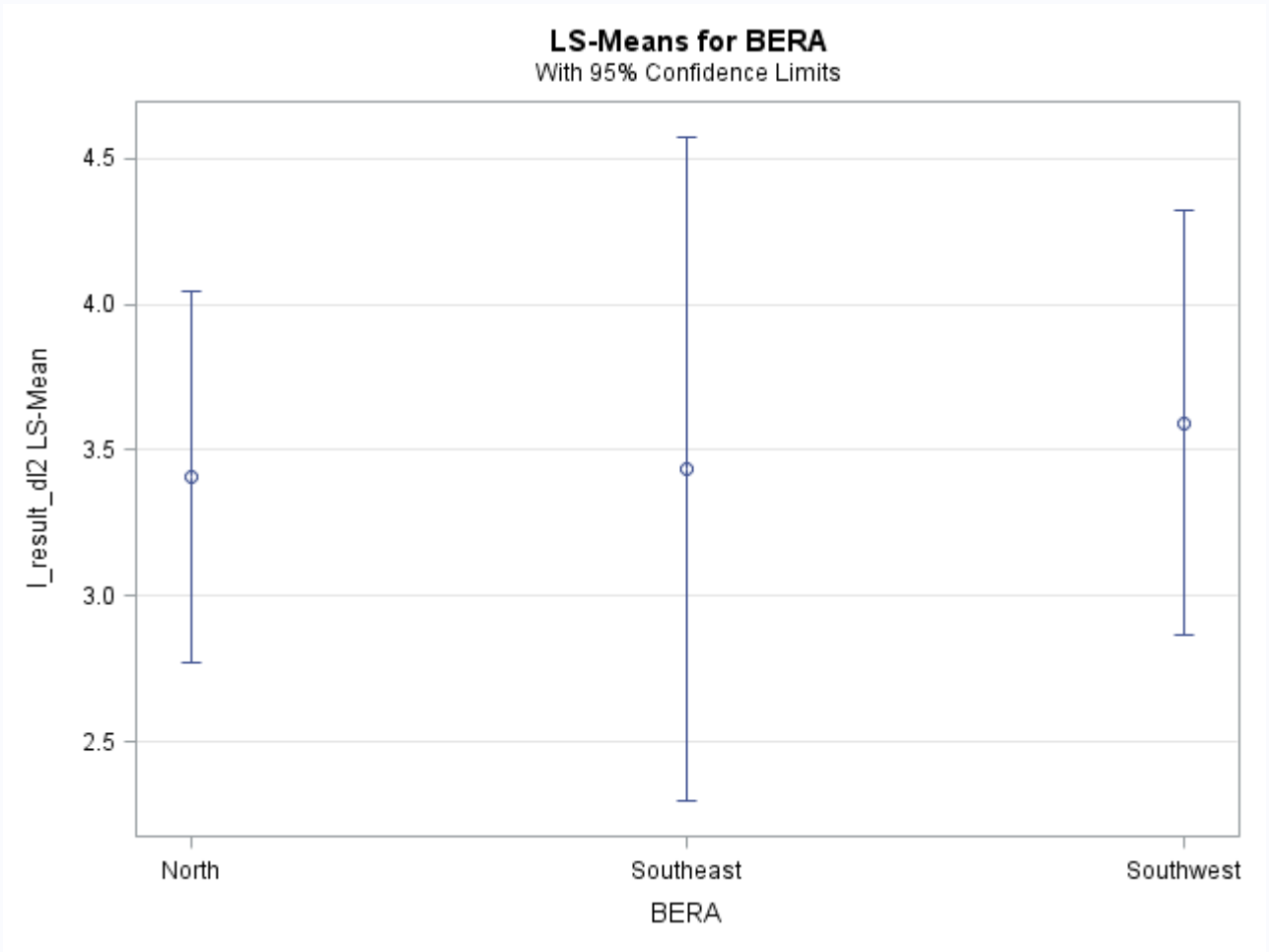
Pesticides Hexachlorobenzene
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Hexachlorobenzene result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.40585246	1
Southeast	3.43492356	2
Southwest	3.59339285	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9988	0.9064
2	0.9988		0.9671
3	0.9064	0.9671	


LS-Means for BERA
With 95% Confidence Limits
4.5
4.0
3.5
3.0
2.5
l_result_dl2 LS-Mean
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

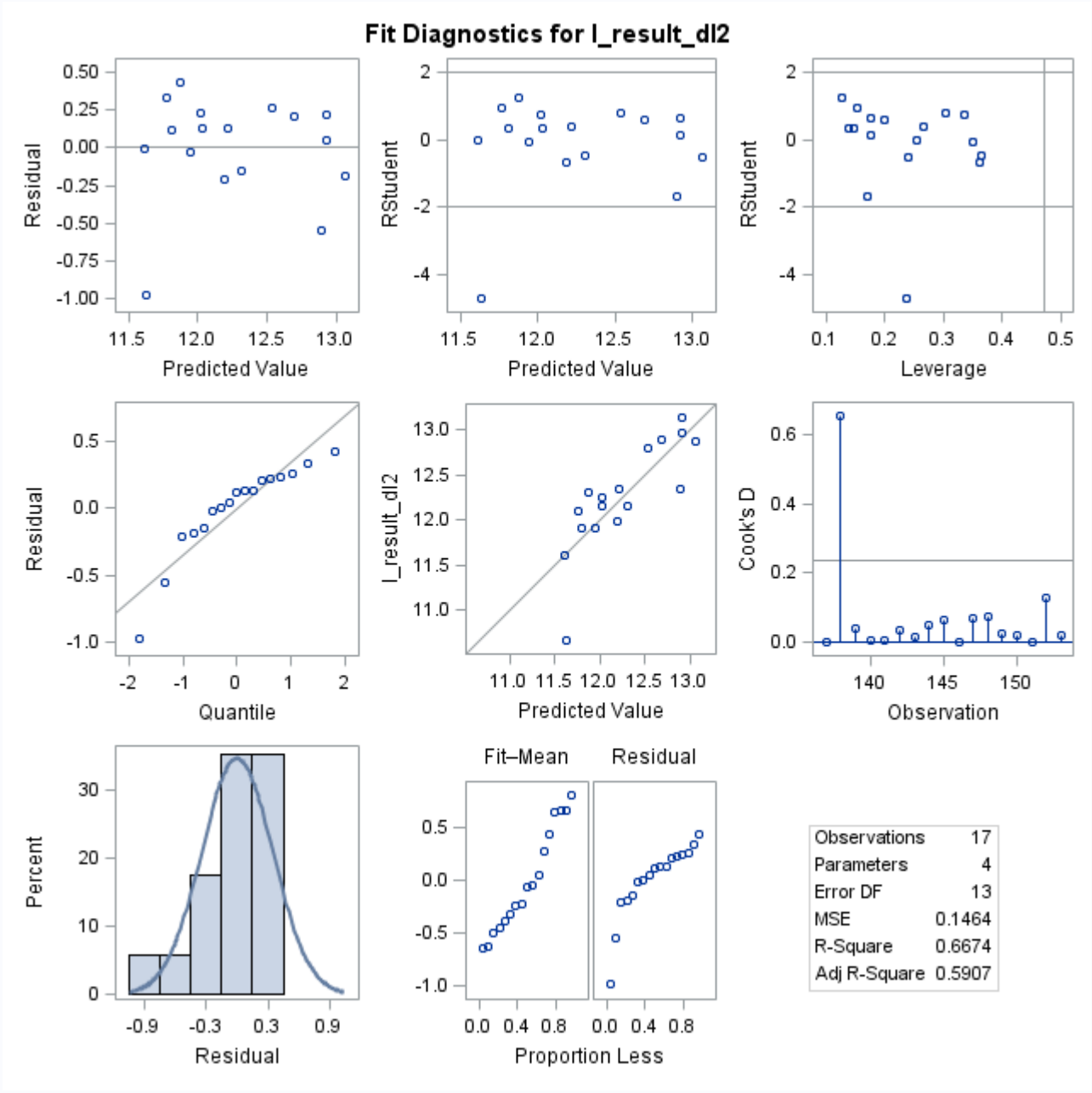
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.81960316	1.27320105	8.70	0.0020
Error	13	1.90311214	0.14639324		
Corrected Total	16	5.72271530			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.667446	3.120768	0.382614	12.26024

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.32233489	0.32233489	2.20	0.1617
BERA	2	3.49726827	1.74863414	11.94	0.0011

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.67986714	0.67986714	4.64	0.0505
BERA	2	3.49726827	1.74863414	11.94	0.0011


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.1464
R-Square 0.6674
Adj R-Square 0.5907

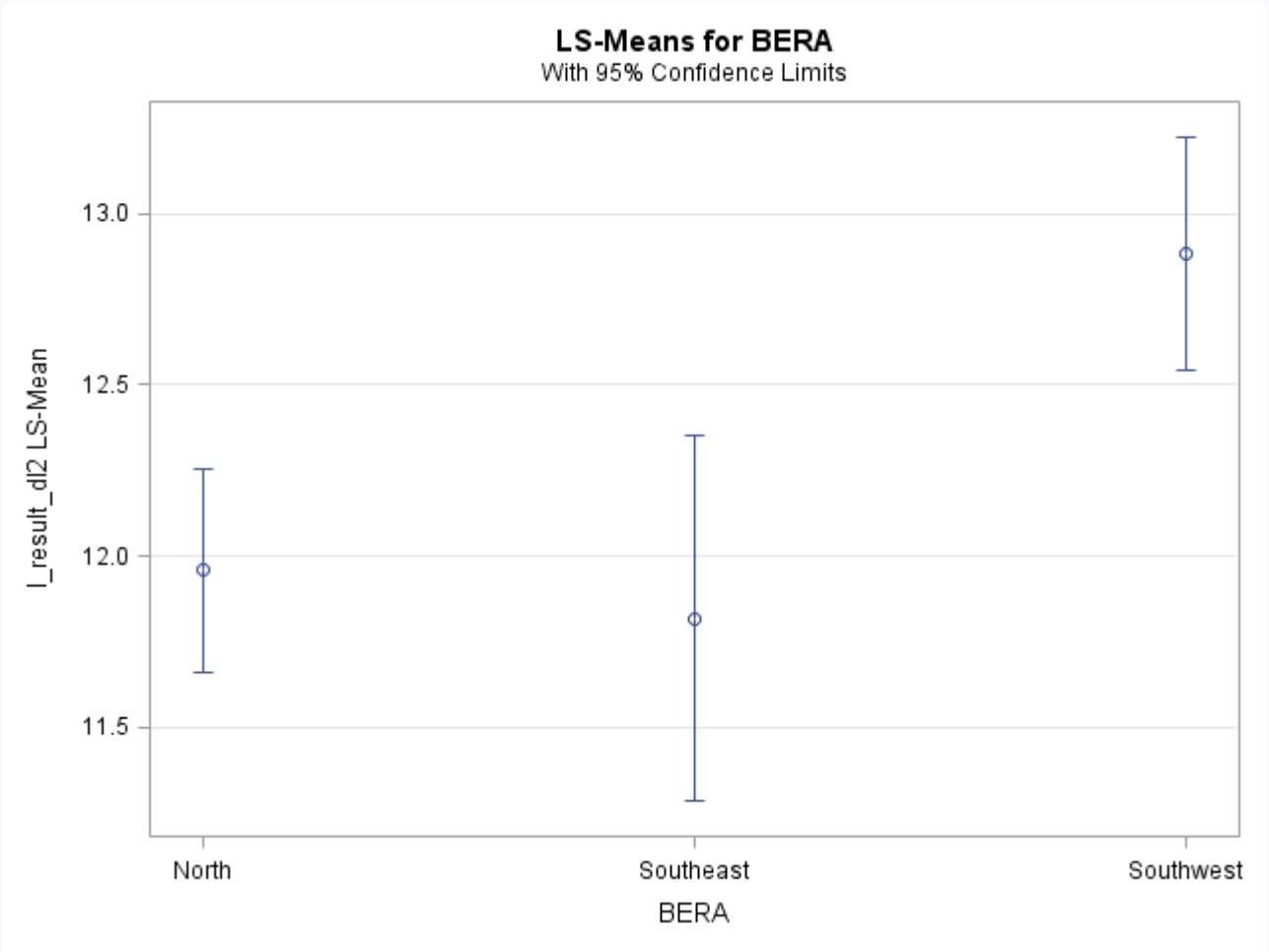
Pesticides Total DDx (2,4 & 4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (2,4 & 4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.9594940	1
Southeast	11.8176764	2
Southwest	12.8825162	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.8790	0.0017
2	0.8790		0.0093
3	0.0017	0.0093	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.5
12.0
11.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

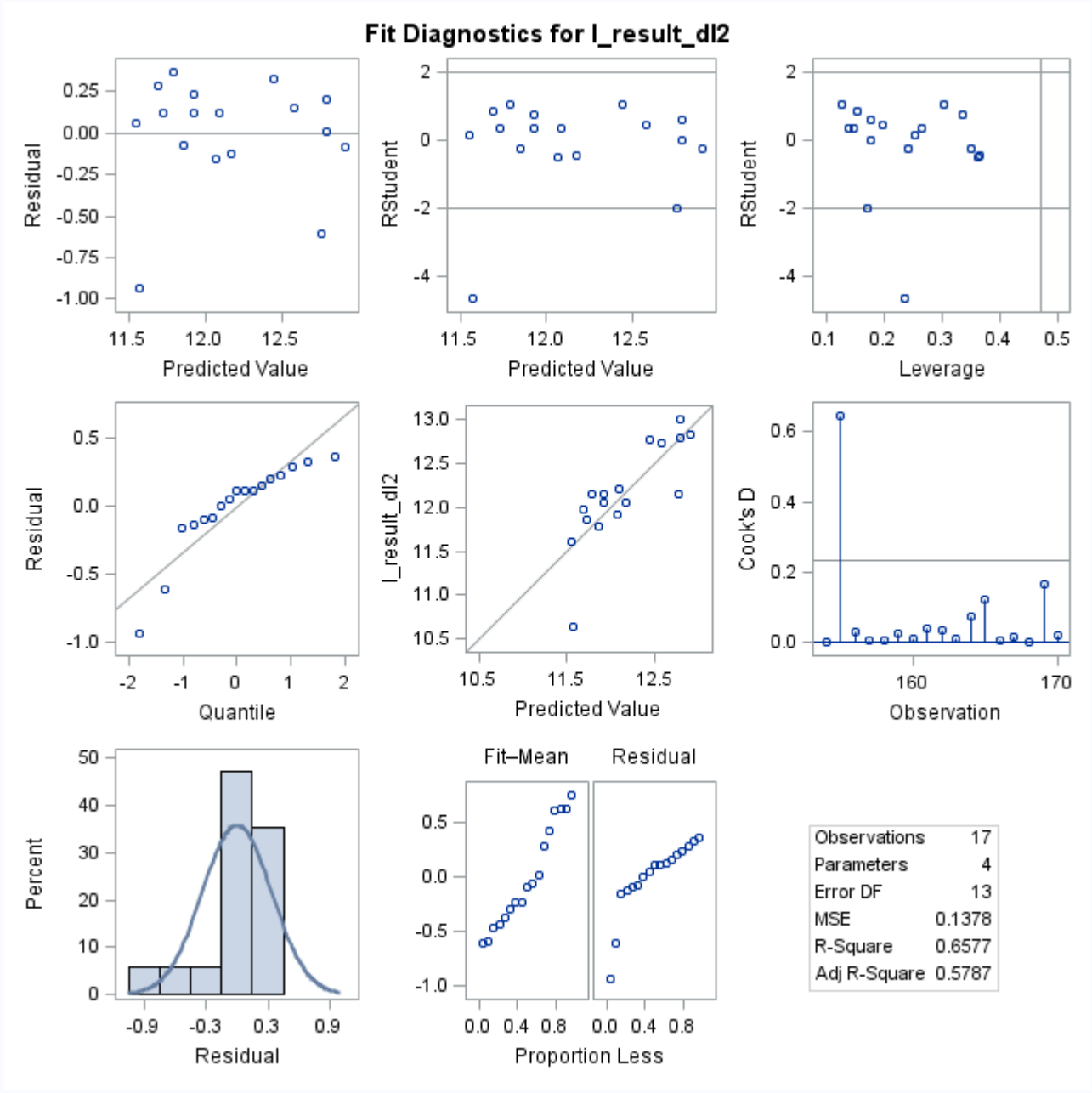
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	3.44171318	1.14723773	8.33	0.0024
Error	13	1.79113855	0.13777989		
Corrected Total	16	5.23285173			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.657713	3.053748	0.371187	12.15513

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.23759991	0.23759991	1.72	0.2118
BERA	2	3.20411327	1.60205664	11.63	0.0013

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.53582183	0.53582183	3.89	0.0703
BERA	2	3.20411327	1.60205664	11.63	0.0013


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.1378
R-Square 0.6577
Adj R-Square 0.5787

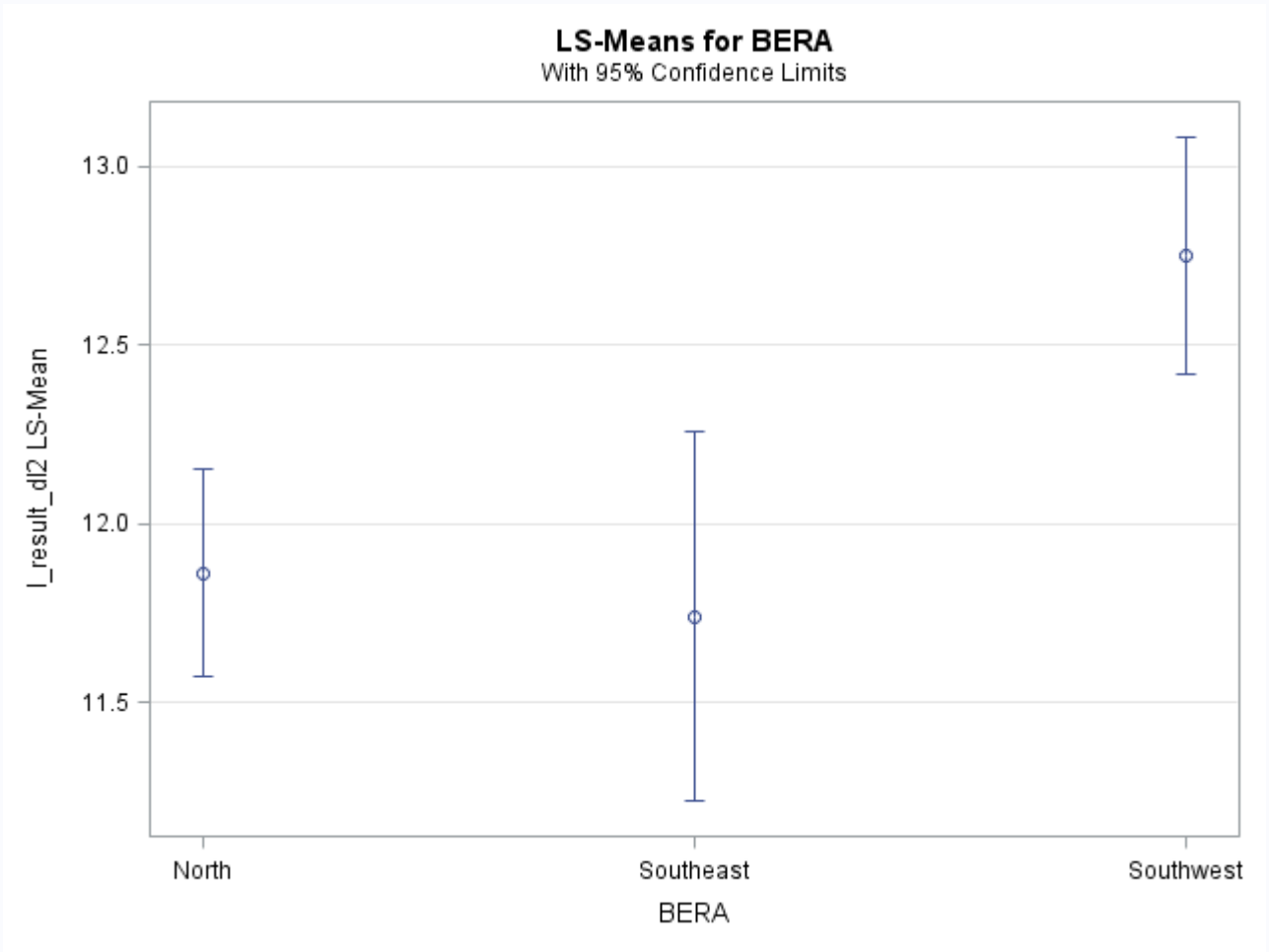
Pesticides Total DDx (4,4) Total Fraction
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total DDx (4,4) Total Fraction result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	11.8634718	1
Southeast	11.7414082	2
Southwest	12.7508746	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9032	0.0018
2	0.9032		0.0108
3	0.0018	0.0108	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
13.0
12.5
12.0
11.5
North
Southeast
Southwest
BERA

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

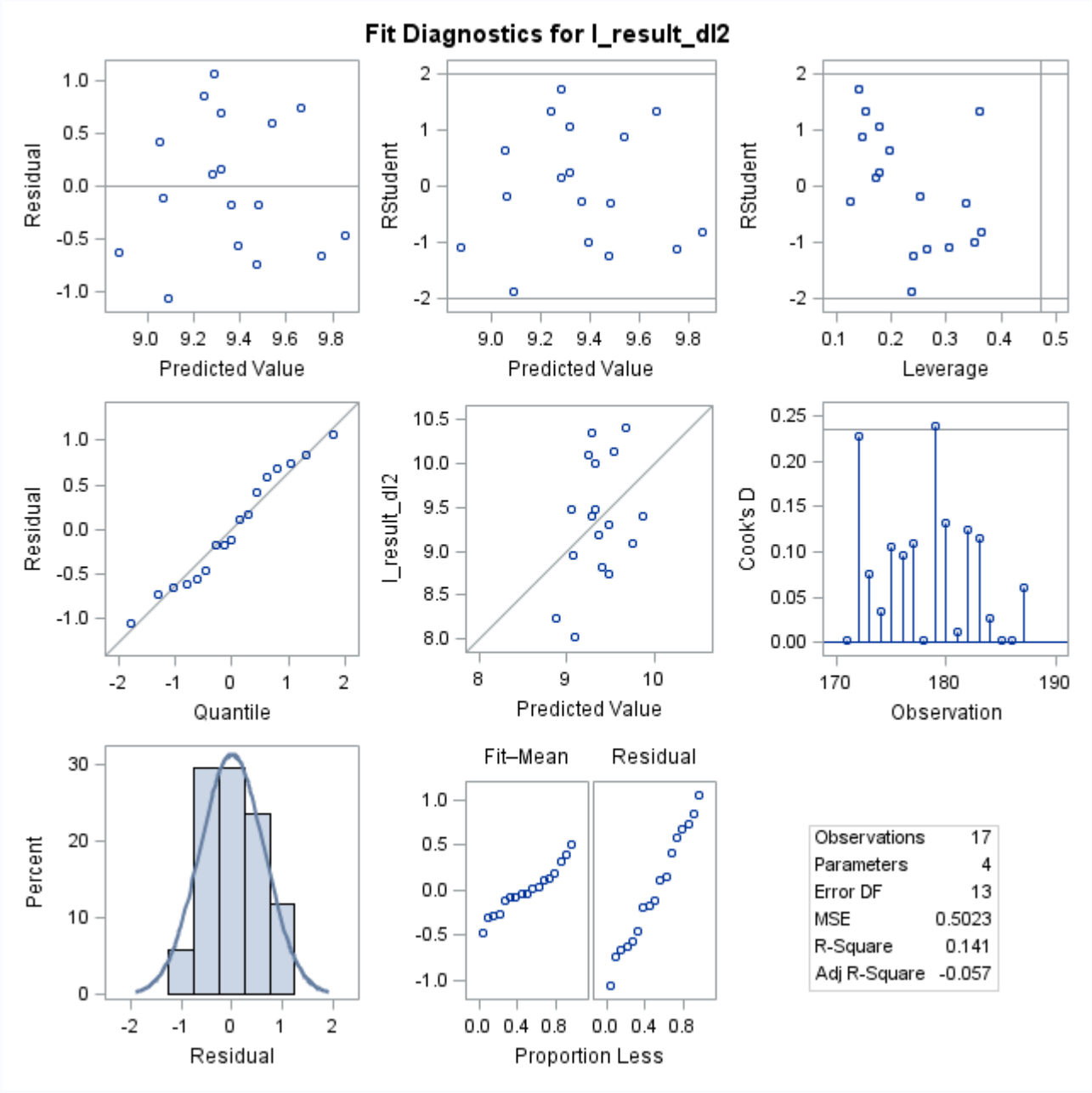
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	1.07158653	0.35719551	0.71	0.5625
Error	13	6.53032719	0.50233286		
Corrected Total	16	7.60191373			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.140963	7.576561	0.708754	9.354566

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.91629192	0.91629192	1.82	0.1999
BERA	2	0.15529461	0.07764731	0.15	0.8583

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.87200051	0.87200051	1.74	0.2104
BERA	2	0.15529461	0.07764731	0.15	0.8583


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.5023
R-Square 0.141
Adj R-Square -0.057

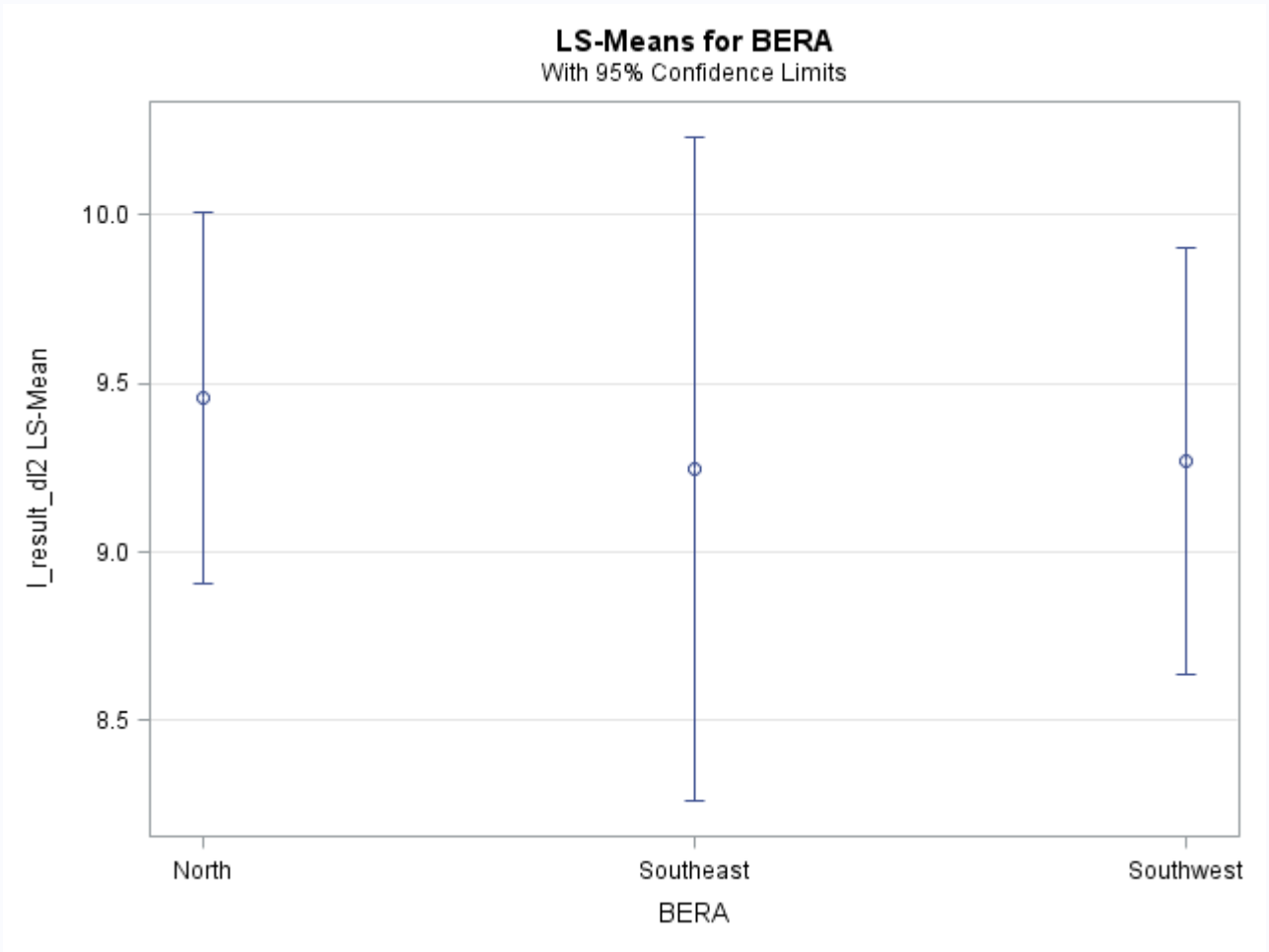
Pesticides Total alpha + gamma chlordane
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=Total alpha + gamma chlordane result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	9.45915931	1
Southeast	9.24608512	2
Southwest	9.26934943	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9183	0.8746
2	0.9183		0.9990
3	0.8746	0.9990	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
10.0
9.5
9.0
8.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides beta-BHC
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

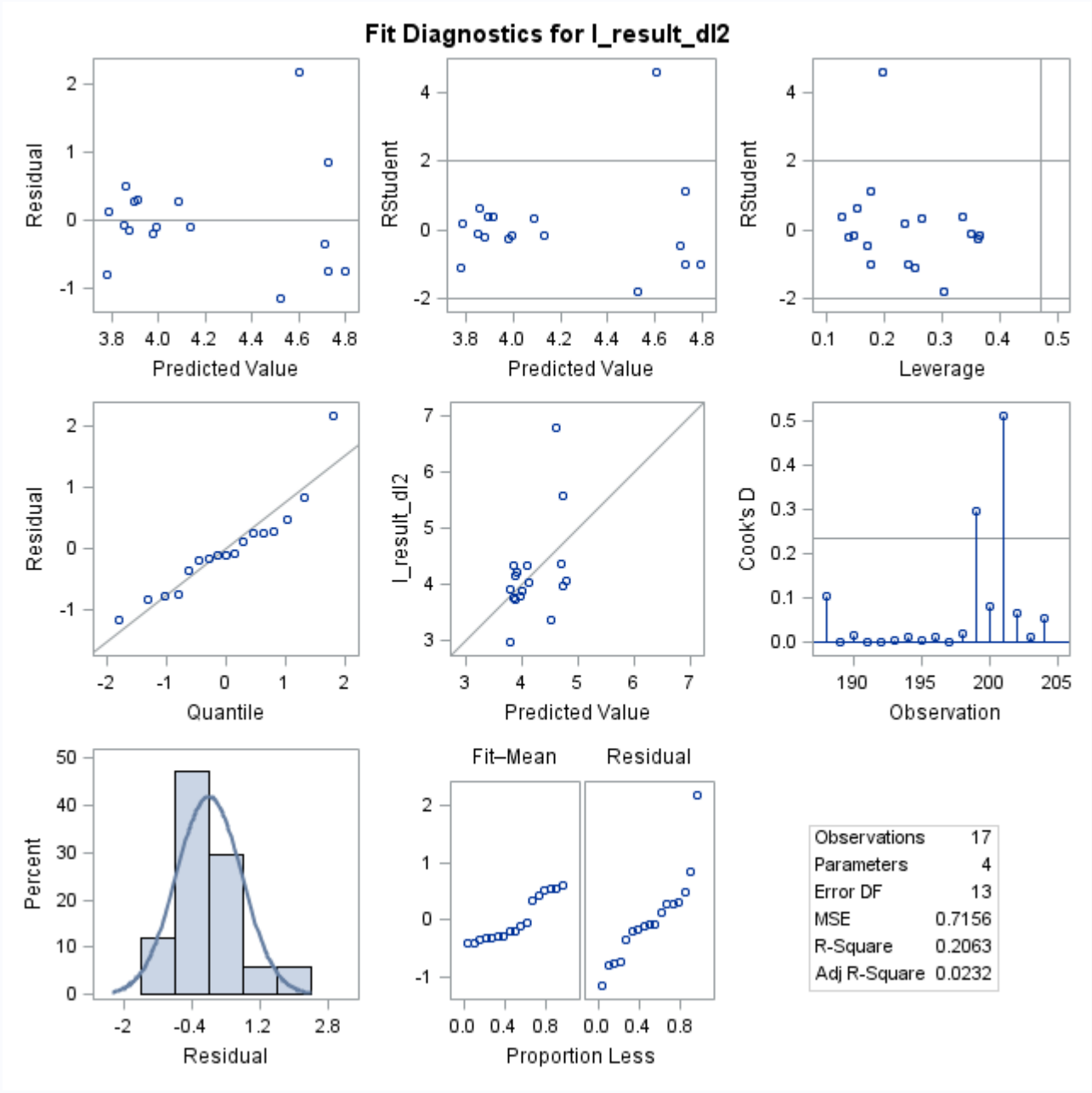
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.41810194	0.80603398	1.13	0.3744
Error	13	9.30244386	0.71557260		
Corrected Total	16	11.72054580			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.206313	20.19112	0.845915	4.189541

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.01942995	0.01942995	0.03	0.8717
BERA	2	2.39867199	1.19933599	1.68	0.2251

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	0.17845934	0.17845934	0.25	0.6258
BERA	2	2.39867199	1.19933599	1.68	0.2251


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.7156
R-Square 0.2063
Adj R-Square 0.0232

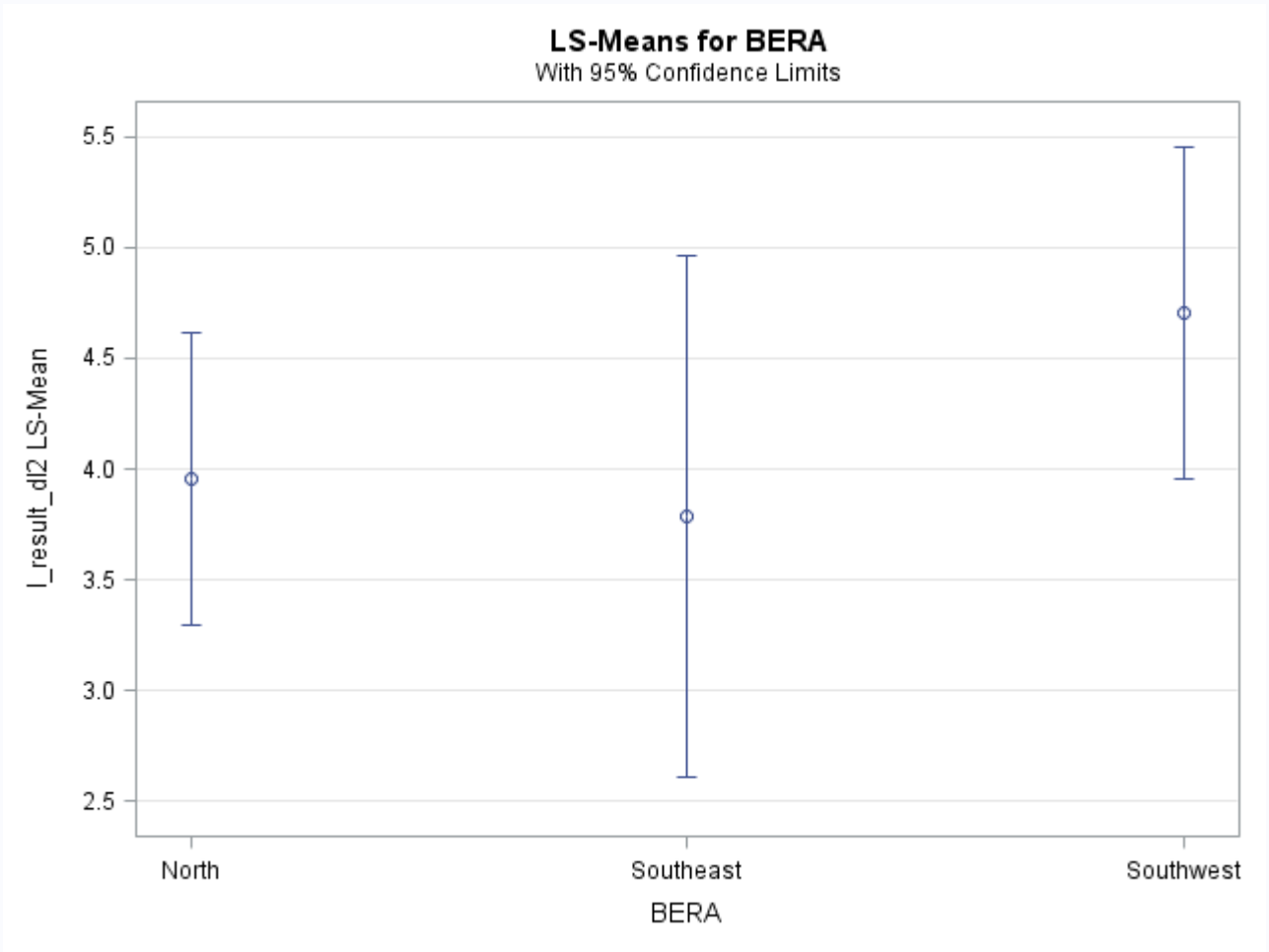
Pesticides beta-BHC
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=beta-BHC result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.95525234	1
Southeast	3.78575181	2
Southwest	4.70381994	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.9627	0.2653
2	0.9627		0.3770
3	0.2653	0.3770	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
5.5
5.0
4.5
4.0
3.5
3.0
2.5
North
Southeast
Southwest
BERA

The GLM Procedure
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

Pesticides cis-Nonachlor
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

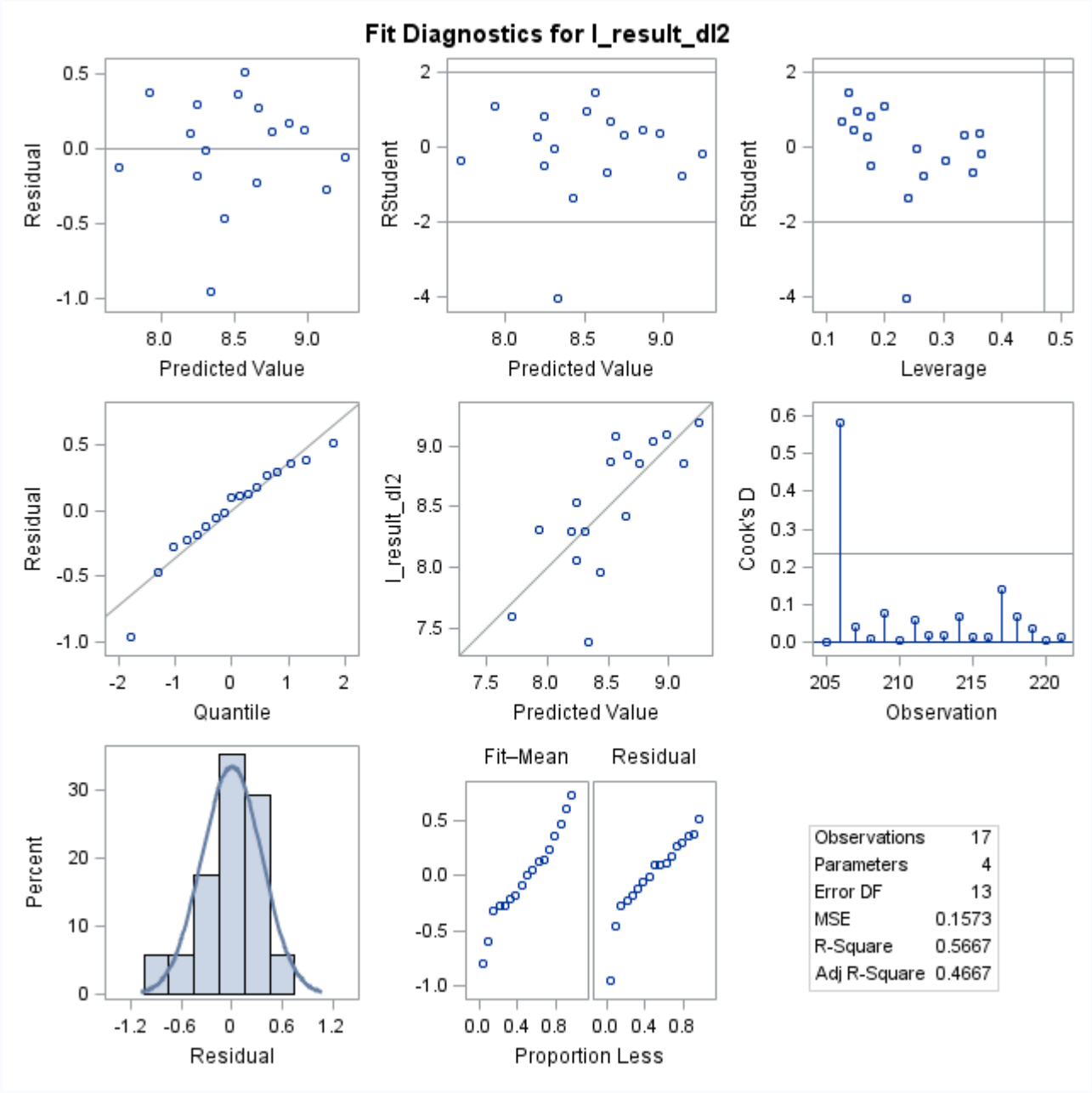
Dependent Variable: l_result_dl2
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	2.67464619	0.89154873	5.67	0.0105
Error	13	2.04527649	0.15732896		
Corrected Total	16	4.71992268			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.566672	4.657926	0.396647	8.515532

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.46990349	1.46990349	9.34	0.0092
BERA	2	1.20474270	0.60237135	3.83	0.0493

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	1.24331690	1.24331690	7.90	0.0147
BERA	2	1.20474270	0.60237135	3.83	0.0493


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.1573
R-Square 0.5667
Adj R-Square 0.4667

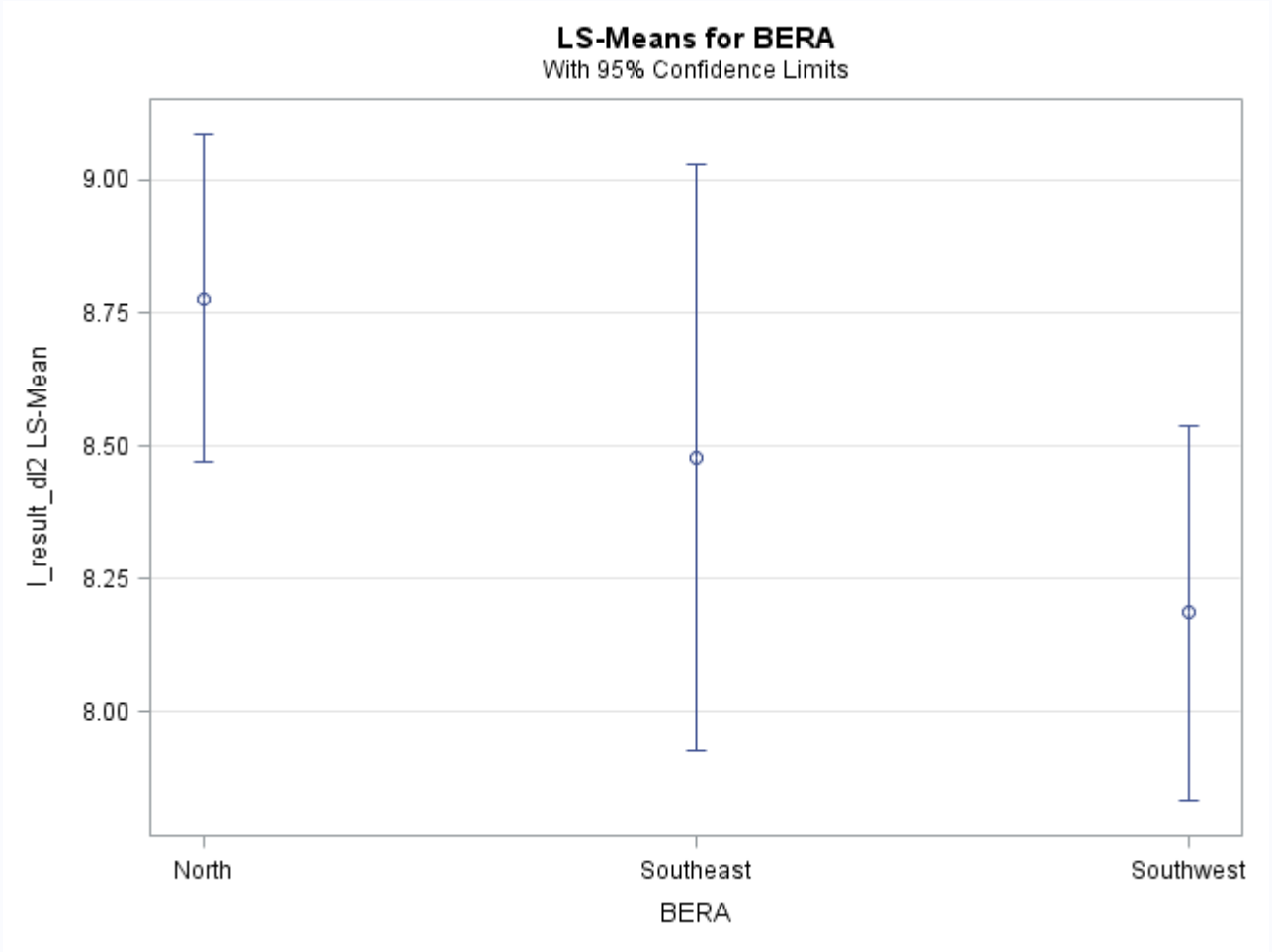
Pesticides cis-Nonachlor
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=3 parameter_group=Pesticides chemical_name=cis-Nonachlor result_unit=pg/g

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	8.77773447	1
Southeast	8.47627659	2
Southwest	8.18555704	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.5914	0.0400
2	0.5914		0.6288
3	0.0400	0.6288	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
9.00
8.75
8.50
8.25
8.00
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

PAHs Total LMW PAHs
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

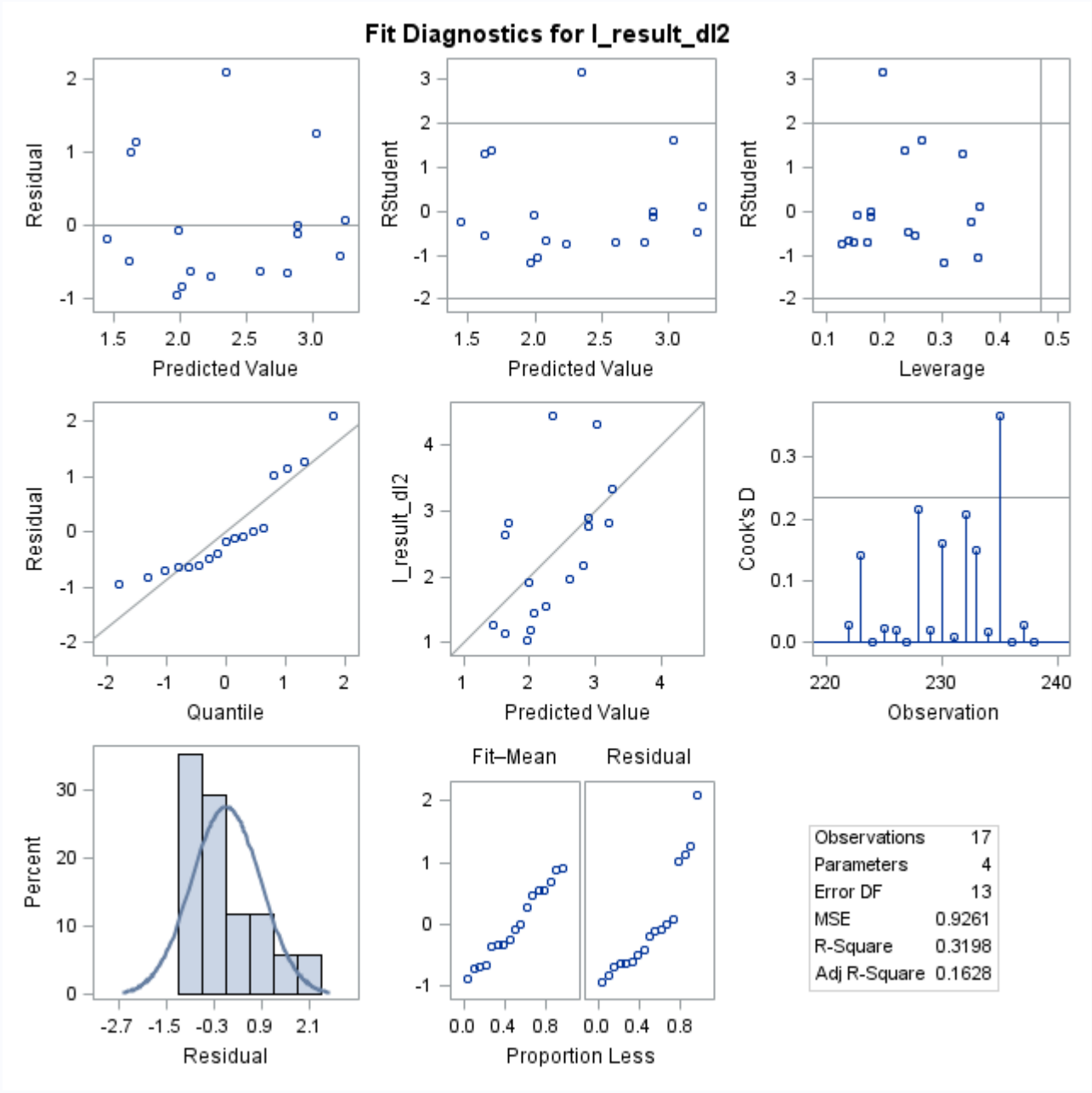
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	5.66044745	1.88681582	2.04	0.1584
Error	13	12.03870194	0.92605400		
Corrected Total	16	17.69914939			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.319815	41.24710	0.962317	2.333054

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	1.26030224	1.26030224	1.36	0.2643
BERA	2	4.40014521	2.20007261	2.38	0.1320

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	3.69801997	3.69801997	3.99	0.0670
BERA	2	4.40014521	2.20007261	2.38	0.1320


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 0.9261
R-Square 0.3198
Adj R-Square 0.1628

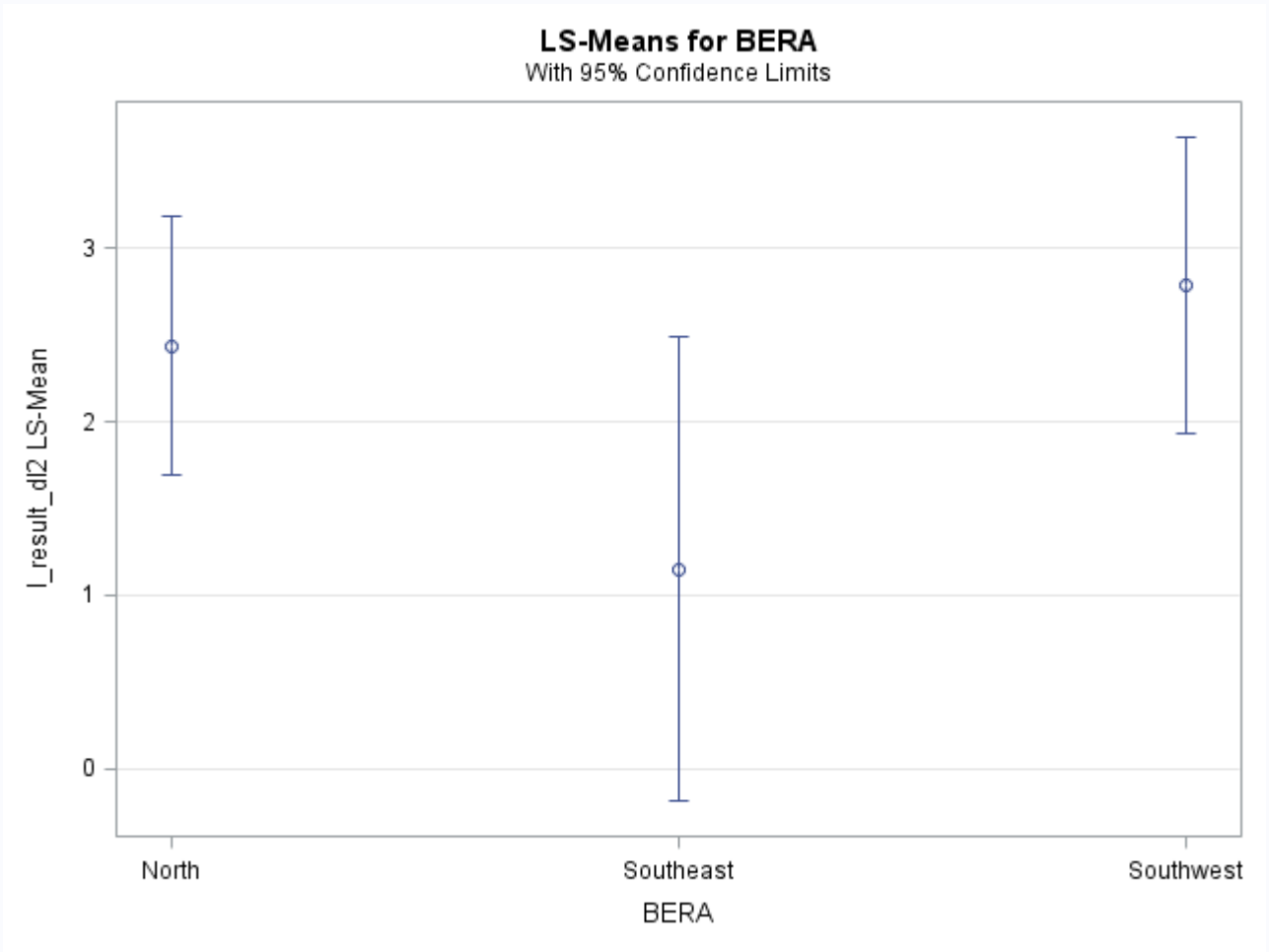
PAHs Total LMW PAHs
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total LMW PAHs result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	2.43597439	1
Southeast	1.14860772	2
Southwest	2.78804911	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.2229	0.7805
2	0.2229		0.1136
3	0.7805	0.1136	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
3
2
1
0
North
Southeast
Southwest
BERA

The GLM Procedure
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Class Level Information

Class	Levels	Values
BERA	3	North Southeast Southwest

Number of Observations Read 17

Number of Observations Used 17

PAHs Total PAH

NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure

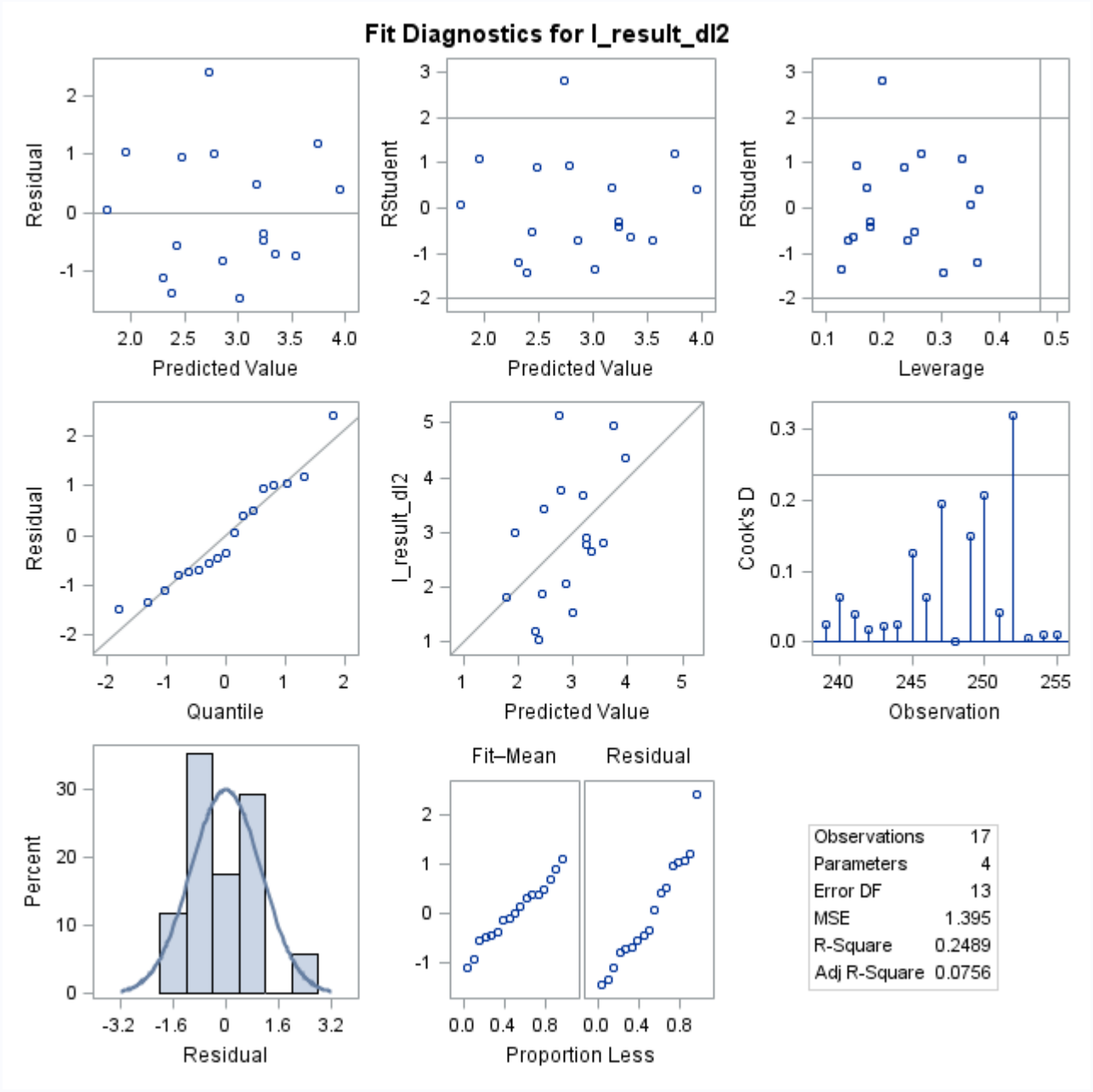
Dependent Variable: l_result_dl2
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	3	6.01100095	2.00366698	1.44	0.2773
Error	13	18.13488042	1.39499080		
Corrected Total	16	24.14588137			

R-Square	Coeff Var	Root MSE	l_result_dl2 Mean
0.248945	41.05274	1.181097	2.877024

Source	DF	Type I SS	Mean Square	F Value	Pr > F
l_lipid	1	0.61842261	0.61842261	0.44	0.5172
BERA	2	5.39257835	2.69628917	1.93	0.1841

Source	DF	Type III SS	Mean Square	F Value	Pr > F
l_lipid	1	3.23691265	3.23691265	2.32	0.1516
BERA	2	5.39257835	2.69628917	1.93	0.1841


Fit Diagnostics for l_result_dl2
Residual
Predicted Value
RStudent
Predicted Value
RStudent
Leverage
Residual
Quantile
l_result_dl2
Predicted Value
Cook's D
Observation
Percent
Residual
Fit–Mean
Residual
Proportion Less
Observations 17
Parameters 4
Error DF 13
MSE 1.395
R-Square 0.2489
Adj R-Square 0.0756

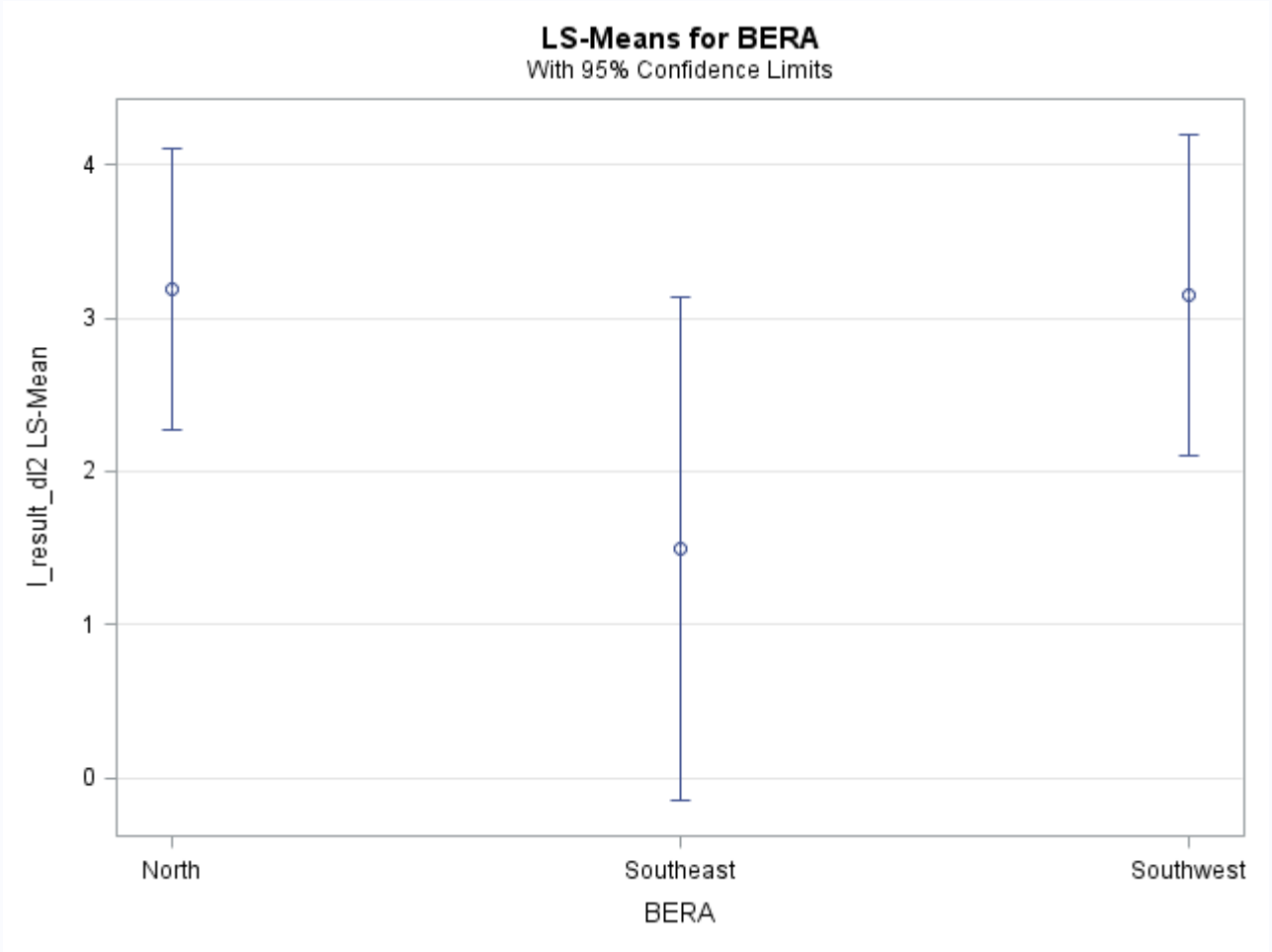
PAHs Total PAH
NBSA Whole Body Fundulus Spp. ANCOVA by BERA Assessment Zone with Lipid Covariate

The GLM Procedure
Least Squares Means
Adjustment for Multiple Comparisons: Tukey-Kramer
sort=4 parameter_group=PAHs chemical_name=Total PAH result_unit=ug/kg

BERA	l_result_dl2 LSMEAN	LSMEAN Number
North	3.19351963	1
Southeast	1.49330943	2
Southwest	3.14688816	3

Least Squares Means for effect BERA
Pr > |t| for H0: LSMean(i)=LSMean(j)
Dependent Variable: l_result_dl2

i/j	1	2	3
1		0.1811	0.9971
2	0.1811		0.2127
3	0.9971	0.2127	


LS-Means for BERA
With 95% Confidence Limits
l_result_dl2 LS-Mean
4
3
2
1
0
North
Southeast
Southwest
BERA