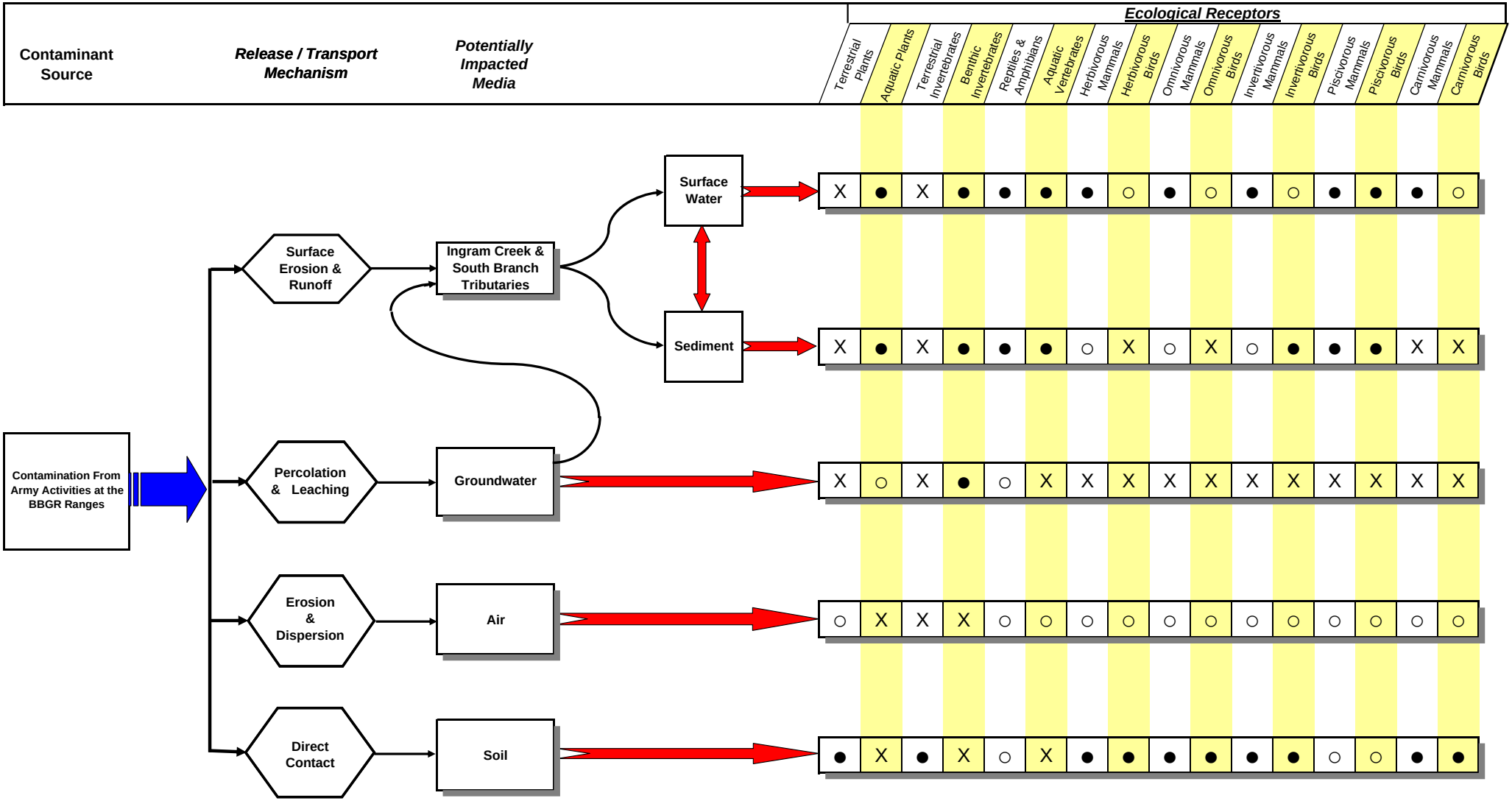
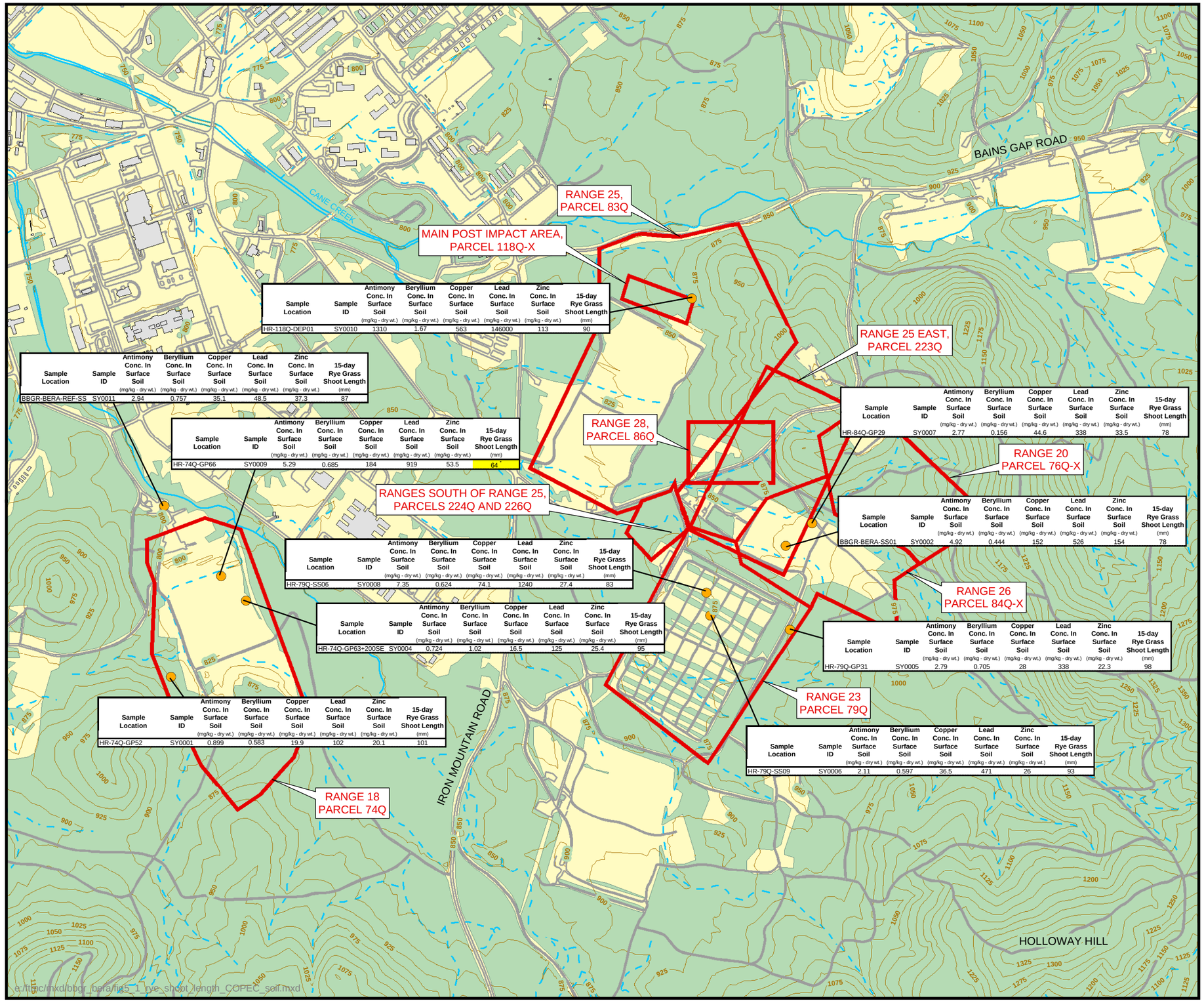
FIGURES

FIGURE 2-1
CONCEPTUAL SITE MODEL
FOR BABY BAINS GAP ROAD RANGES
Fort McClellan, Calhoun County, Alabama



Key To Potential Exposure Routes

- ● - Potentially complete exposure pathway
- X - Incomplete exposure pathway
- ○ - Potentially complete exposure pathway but insignificant



Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-118Q-DEP01	SY0010	1310	1.67	563	146000	113	90

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
BBGR-BERA-REF-SS	SY0011	2.94	0.757	35.1	48.5	37.3	87

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-74Q-GP66	SY0009	5.29	0.685	184	919	53.5	64 *

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-84Q-GP29	SY0007	2.77	0.156	44.6	338	33.5	78

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
BBGR-BERA-SS01	SY0002	4.92	0.444	152	526	154	78

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-79Q-SS06	SY0008	7.35	0.624	74.1	1240	27.4	83

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-74Q-GP63+200SE	SY0004	0.724	1.02	16.5	125	25.4	95

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-79Q-GP31	SY0005	2.79	0.705	28	338	22.3	98

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-74Q-GP52	SY0001	0.899	0.583	19.9	102	20.1	101

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Shoot Length (mm)
HR-79Q-SS09	SY0006	2.11	0.597	36.5	471	26	93

Figure 5-1

Rye Grass Shoot Length and COPEC Concentrations in Soil

Baby Bains Gap Road Ranges
Fort McClellan, Alabama

Legend

- Soil Sample Location
- BBGR Study Area
- Wooded
- Not Wooded
- Building
- Roads
- Surface Drainage Feature (Dashed where intermittent)
- Topographic Contour (25-foot Interval)
- Main Post Boundary

Note:
Shading and asterisk indicate a statistically significant difference compared to the reference sample.

1,000 0 1,000 Feet

NAD83 State Plane Coordinates

N

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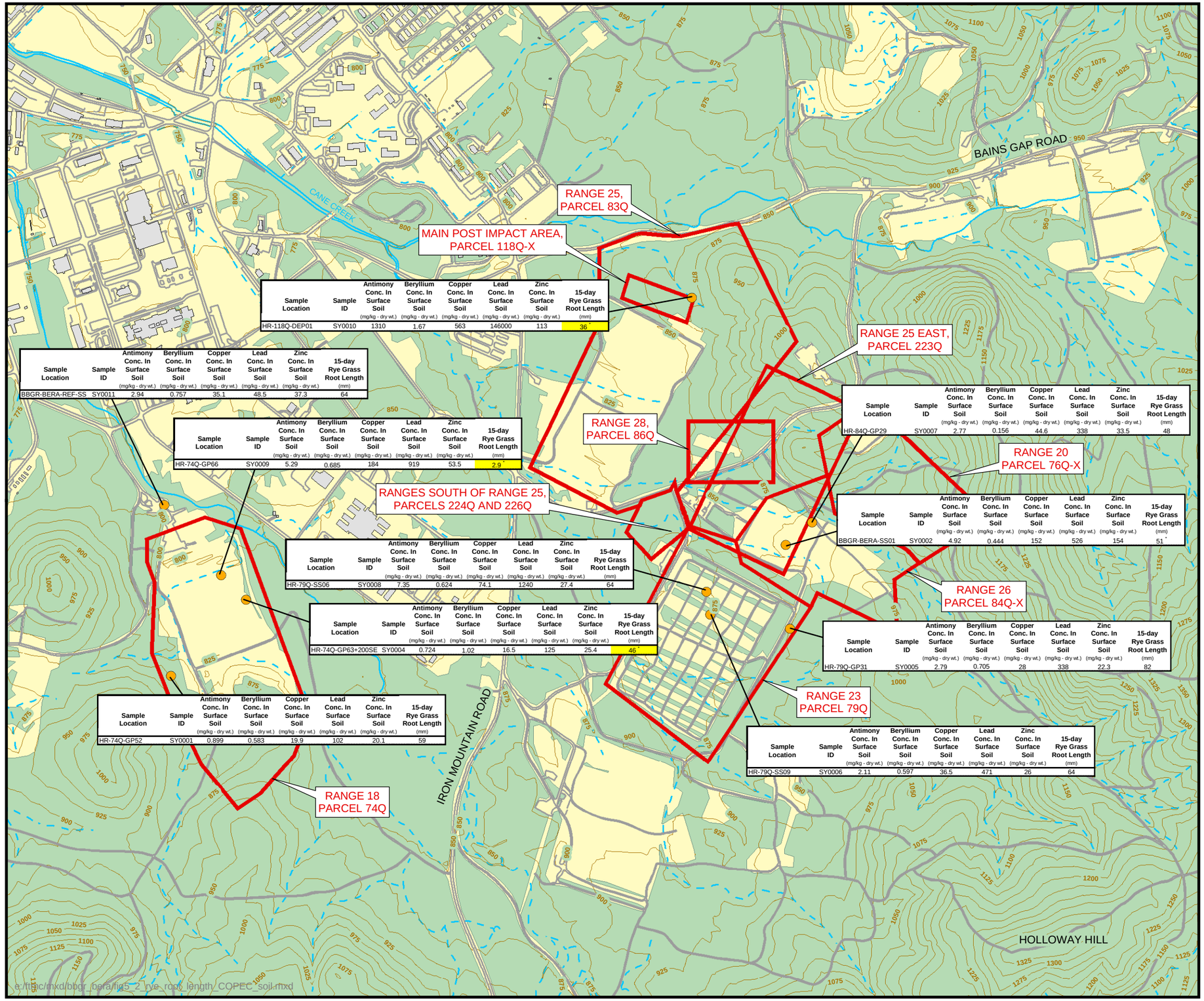
U.S. Army Corps of Engineers Mobile District

Contract No. DACA21-96-D-0018



Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-118Q-DEP01	SY0010	1310	1.67	563	146000	113	36*

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
BBGR-BERA-REF-SS	SY0011	2.94	0.757	35.1	48.5	37.3	64

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-74Q-GP66	SY0009	5.29	0.685	184	919	53.5	2.9*

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-84Q-GP29	SY0007	2.77	0.156	44.6	338	33.5	48

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
BBGR-BERA-SS01	SY0002	4.92	0.444	152	526	154	51*

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-79Q-SS06	SY0008	7.35	0.624	74.1	1240	27.4	64

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-74Q-GP63+200SE	SY0004	0.724	1.02	16.5	125	25.4	46*

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-79Q-GP31	SY0005	2.79	0.705	28	338	22.3	82

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-74Q-GP52	SY0001	0.899	0.583	19.9	102	20.1	59

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Root Length (mm)
HR-79Q-SS09	SY0006	2.11	0.597	36.5	471	26	64

Figure 5-2

Rye Grass Root Length and COPEC Concentrations in Soil

Baby Bains Gap Road Ranges
Fort McClellan, Alabama

Legend

- Soil Sample Location
- BBGR Study Area
- Wooded
- Not Wooded
- Building
- Roads
- Surface Drainage Feature (Dashed where intermittent)
- Topographic Contour (25-foot Interval)
- Main Post Boundary

Note:
Shading and asterisk indicate a statistically significant difference compared to the reference sample.

1,000 0 1,000 Feet

NAD83 State Plane Coordinates

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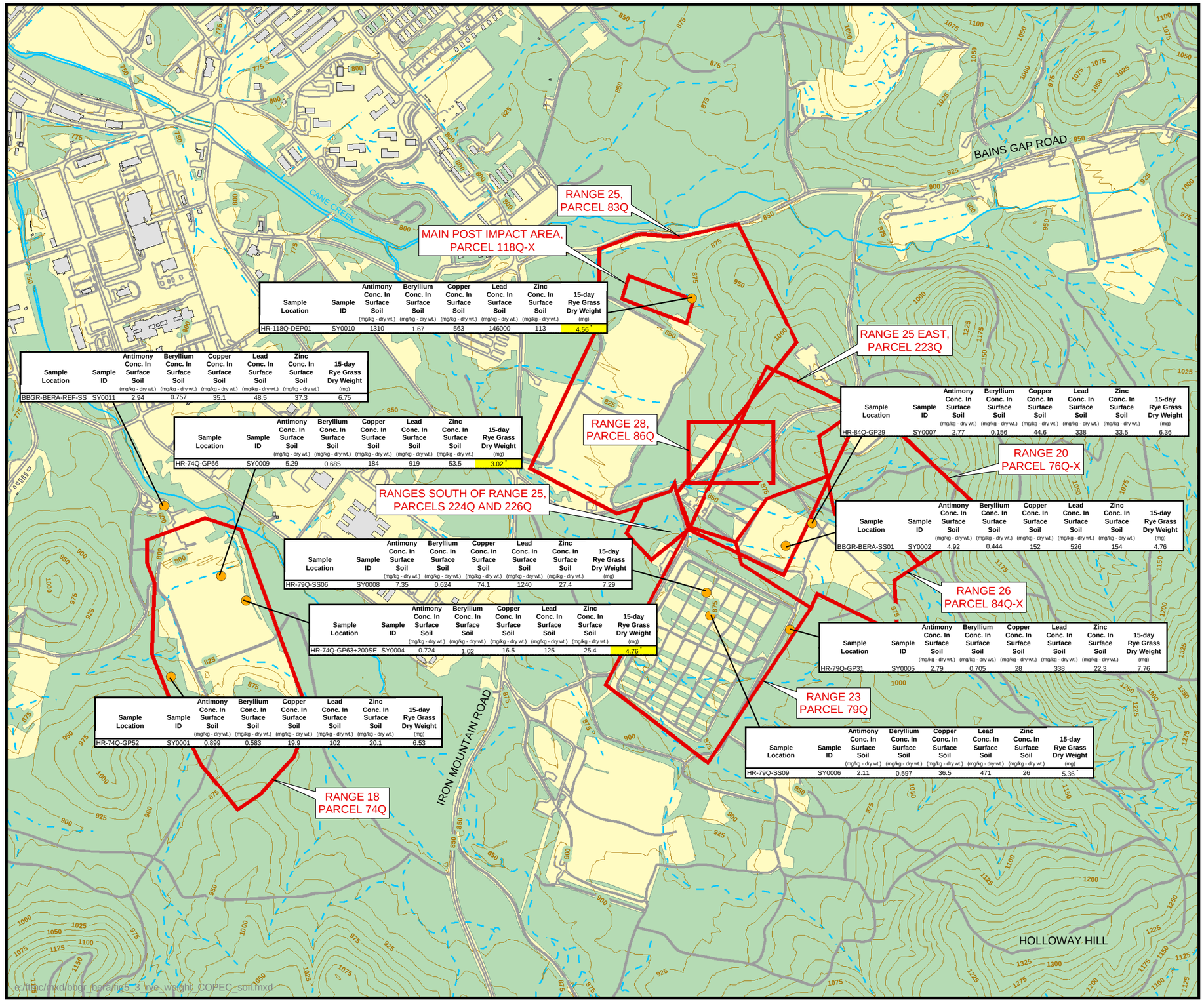
Contract No. DACA21-96-D-0018

Figure 5-3

Rye Grass Weight and COPEC Concentrations in Soil

Baby Bains Gap Road Ranges
Fort McClellan, Alabama



Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-118Q-DEP01	SY0010	1310	1.67	563	146000	113	4.56 *

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
BBGR-BERA-REF-SS	SY0011	2.94	0.757	35.1	48.5	37.3	6.75

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-74Q-GP66	SY0009	5.29	0.685	184	919	53.5	3.02 *

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-79Q-SS06	SY0008	7.35	0.624	74.1	1240	27.4	7.29

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-74Q-GP63+200SE	SY0004	0.724	1.02	16.5	125	25.4	4.76

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-74Q-GP52	SY0001	0.899	0.583	19.9	102	20.1	6.53

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-84Q-GP29	SY0007	2.77	0.156	44.6	338	33.5	6.36

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
BBGR-BERA-SS01	SY0002	4.92	0.444	152	526	154	4.76

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-79Q-GP31	SY0005	2.79	0.705	28	338	22.3	7.76

Sample Location	Sample ID	Antimony Conc. In Surface Soil (mg/kg - dry wt.)	Beryllium Conc. In Surface Soil (mg/kg - dry wt.)	Copper Conc. In Surface Soil (mg/kg - dry wt.)	Lead Conc. In Surface Soil (mg/kg - dry wt.)	Zinc Conc. In Surface Soil (mg/kg - dry wt.)	15-day Rye Grass Dry Weight (mg)
HR-79Q-SS09	SY0006	2.11	0.597	36.5	471	26	5.36 *

Legend

- Soil Sample Location
- BBGR Study Area
- Wooded
- Not Wooded
- Building
- Roads
- Surface Drainage Feature (Dashed where intermittent)
- Topographic Contour (25-foot Interval)
- Main Post Boundary

Note:
Shading and asterisk indicate a statistically significant difference compared to the reference sample.

1,000 0 1,000 Feet

NAD83 State Plane Coordinates

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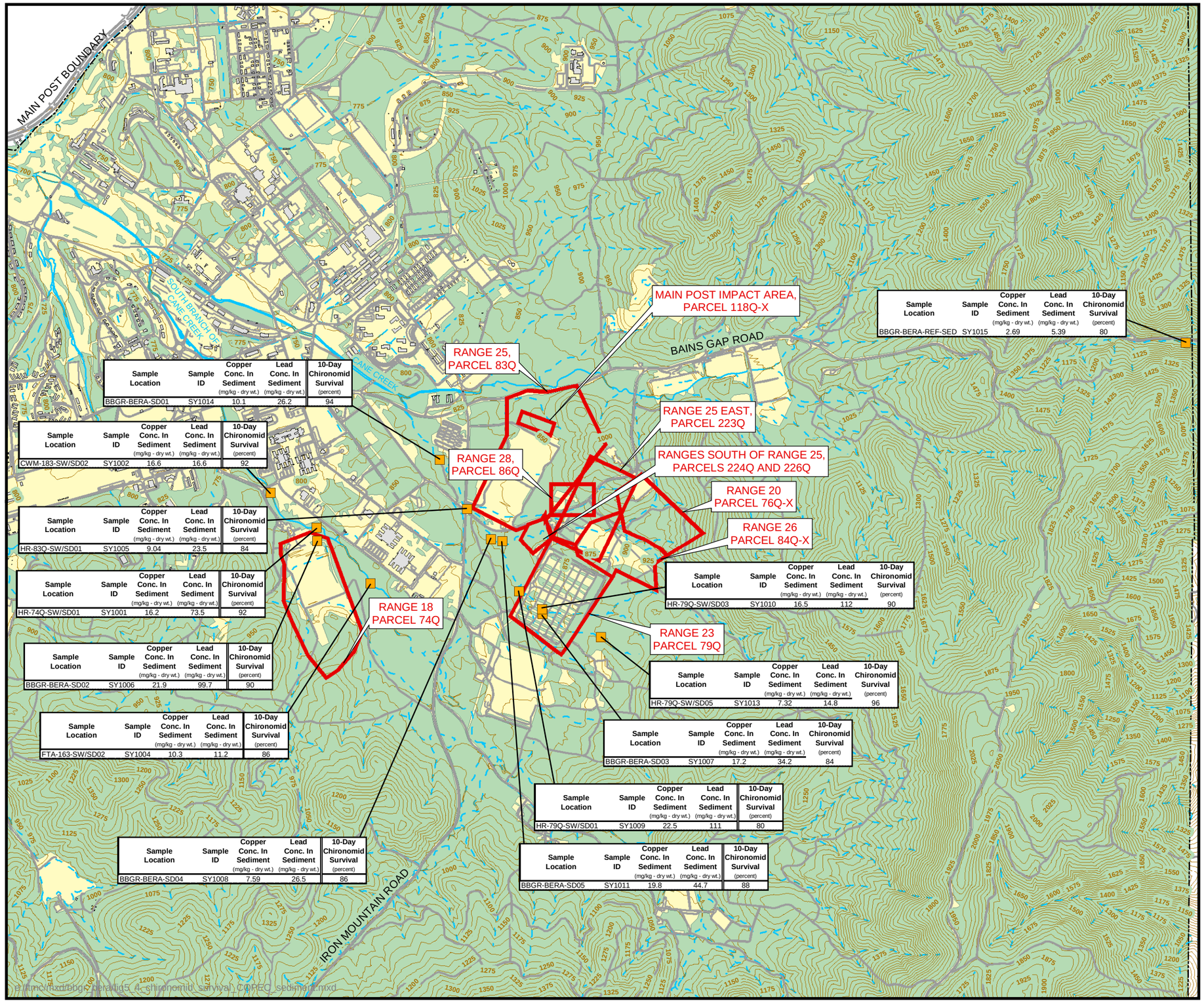
Shaw Environmental, Inc.

U.S. Army Corps of Engineers Mobile District

Contract No. DACA21-96-D-0018



Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
BBGR-BERA-REF-SED	SY1015	2.69	5.39	80

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
BBGR-BERA-SD01	SY1014	10.1	26.2	94

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
CWM-183-SW/SD02	SY1002	16.6	16.6	92

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
HR-83Q-SW/SD01	SY1005	9.04	23.5	84

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
HR-74Q-SW/SD01	SY1001	16.2	73.5	92

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
BBGR-BERA-SD02	SY1006	21.9	99.7	90

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
FTA-163-SW/SD02	SY1004	10.3	11.2	86

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
BBGR-BERA-SD04	SY1008	7.59	26.5	86

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
HR-79Q-SW/SD03	SY1010	16.5	112	90

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
HR-79Q-SW/SD05	SY1013	7.32	14.8	96

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
BBGR-BERA-SD03	SY1007	17.2	34.2	84

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
HR-79Q-SW/SD01	SY1009	22.5	111	80

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	10-Day Chironomid Survival (percent)
BBGR-BERA-SD05	SY1011	19.8	44.7	88

Figure 5-4

Chironomid Survival and COPEC Concentrations in Sediment

Baby Bains Gap Road Ranges
Fort McClellan, Alabama

Legend

- Sediment Sample Location
- BBGR Study Area
- Wooded
- Not Wooded
- Building
- Roads
- Surface Drainage Feature (Dashed where intermittent)
- Topographic Contour (25-foot Interval)
- Main Post Boundary

2,000 0 2,000 Feet

NAD83 State Plane Coordinates

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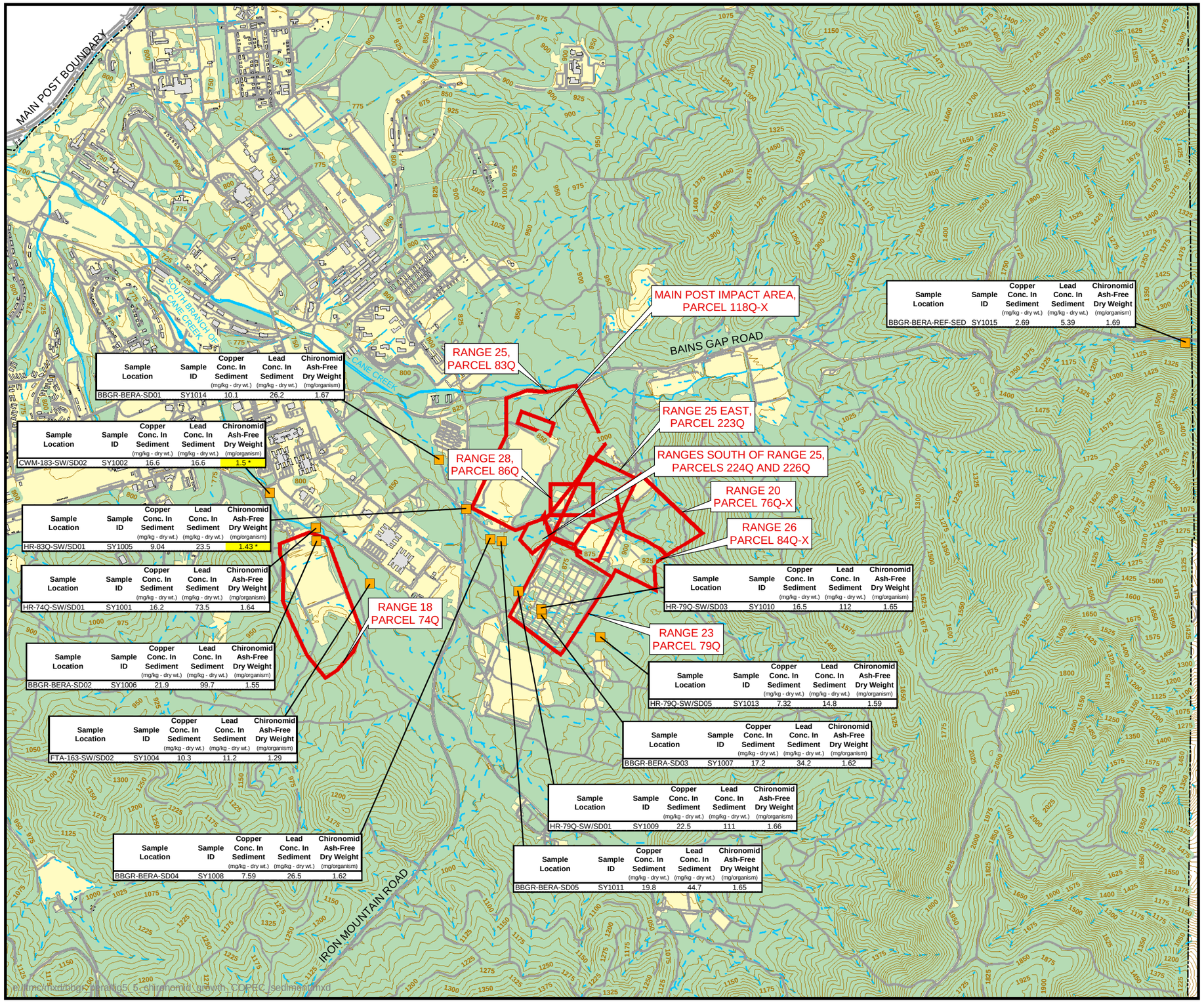
Shaw Environmental, Inc.

U.S. Army Corps of Engineers
Mobile District

Contract No. DACA21-96-D-0018



Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
BBGR-BERA-SD01	SY1014	10.1	26.2	1.67

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
CWM-183-SW/SD02	SY1002	16.6	16.6	1.5 *

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
HR-83Q-SW/SD01	SY1005	9.04	23.5	1.43 *

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
HR-74Q-SW/SD01	SY1001	16.2	73.5	1.64

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
BBGR-BERA-SD02	SY1006	21.9	99.7	1.55

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
FTA-163-SW/SD02	SY1004	10.3	11.2	1.29

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
BBGR-BERA-SD04	SY1008	7.59	26.5	1.62

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
BBGR-BERA-REF-SED	SY1015	2.69	5.39	1.69

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
HR-79Q-SW/SD03	SY1010	16.5	112	1.65

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
HR-79Q-SW/SD05	SY1013	7.32	14.8	1.59

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
BBGR-BERA-SD03	SY1007	17.2	34.2	1.62

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
HR-79Q-SW/SD01	SY1009	22.5	111	1.66

Sample Location	Sample ID	Copper Conc. In Sediment (mg/kg - dry wt.)	Lead Conc. In Sediment (mg/kg - dry wt.)	Chironomid Ash-Free Dry Weight (mg/organism)
BBGR-BERA-SD05	SY1011	19.8	44.7	1.65

Figure 5-5

Chironomid Growth and COPEC Concentrations in Sediment

Baby Bains Gap Road Ranges
Fort McClellan, Alabama

Legend

- Sediment Sample Location
- BBGR Study Area
- Wooded
- Not Wooded
- Building
- Roads
- Surface Drainage Feature (Dashed where intermittent)
- Topographic Contour (25-foot Interval)
- Main Post Boundary

Note:
Shading and asterisk indicate a statistically significant difference compared to the reference sample.

2,000 0 2,000 Feet

NAD83 State Plane Coordinates

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Shaw Environmental, Inc.

U.S. Army Corps of Engineers
Mobile District

Contract No. DACA21-96-D-0018

Figure 6-1
Antimony in Soil and Rye Grass Mean Shoot Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

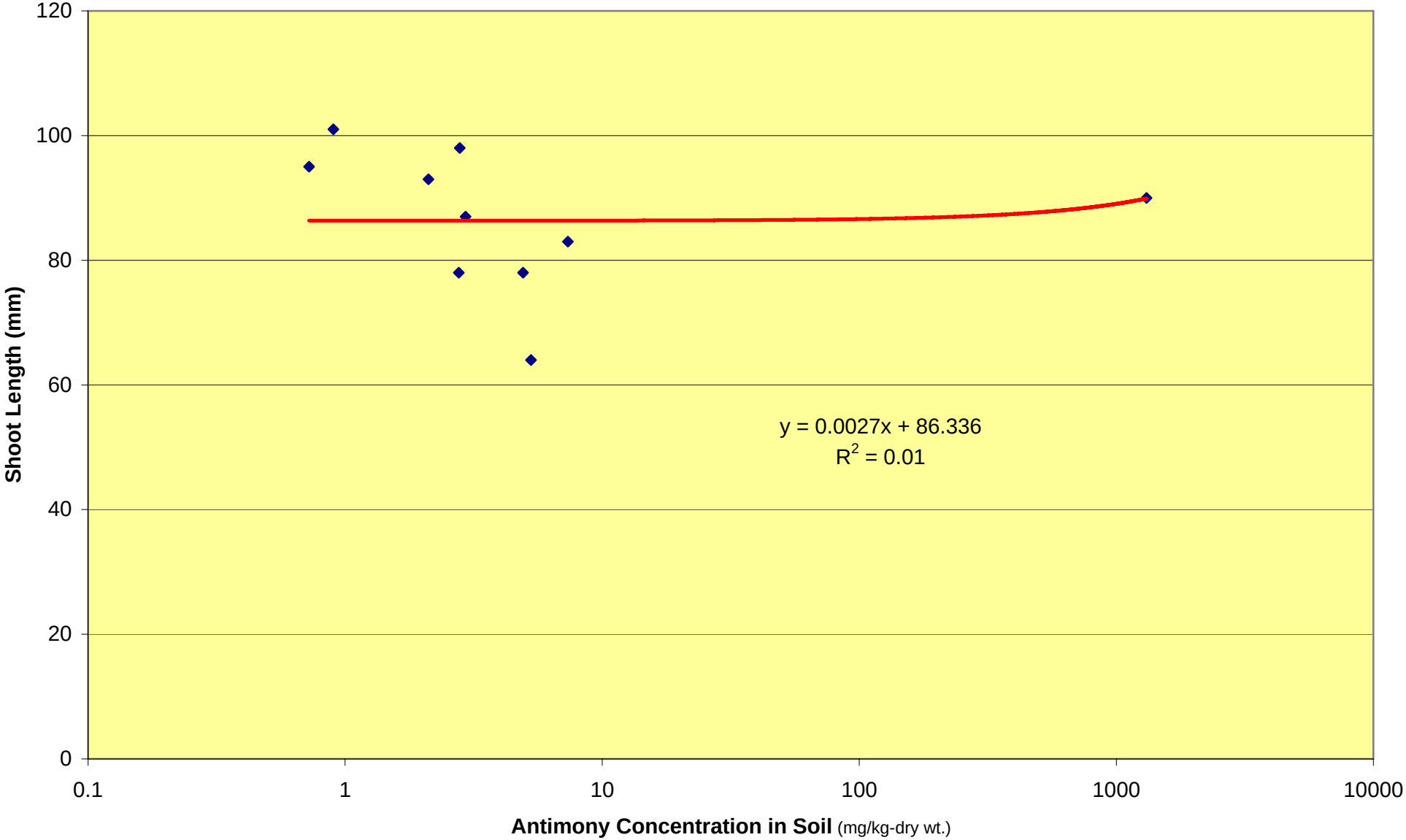


Figure 6-2
Beryllium in Soil and Rye Grass Mean Shoot Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

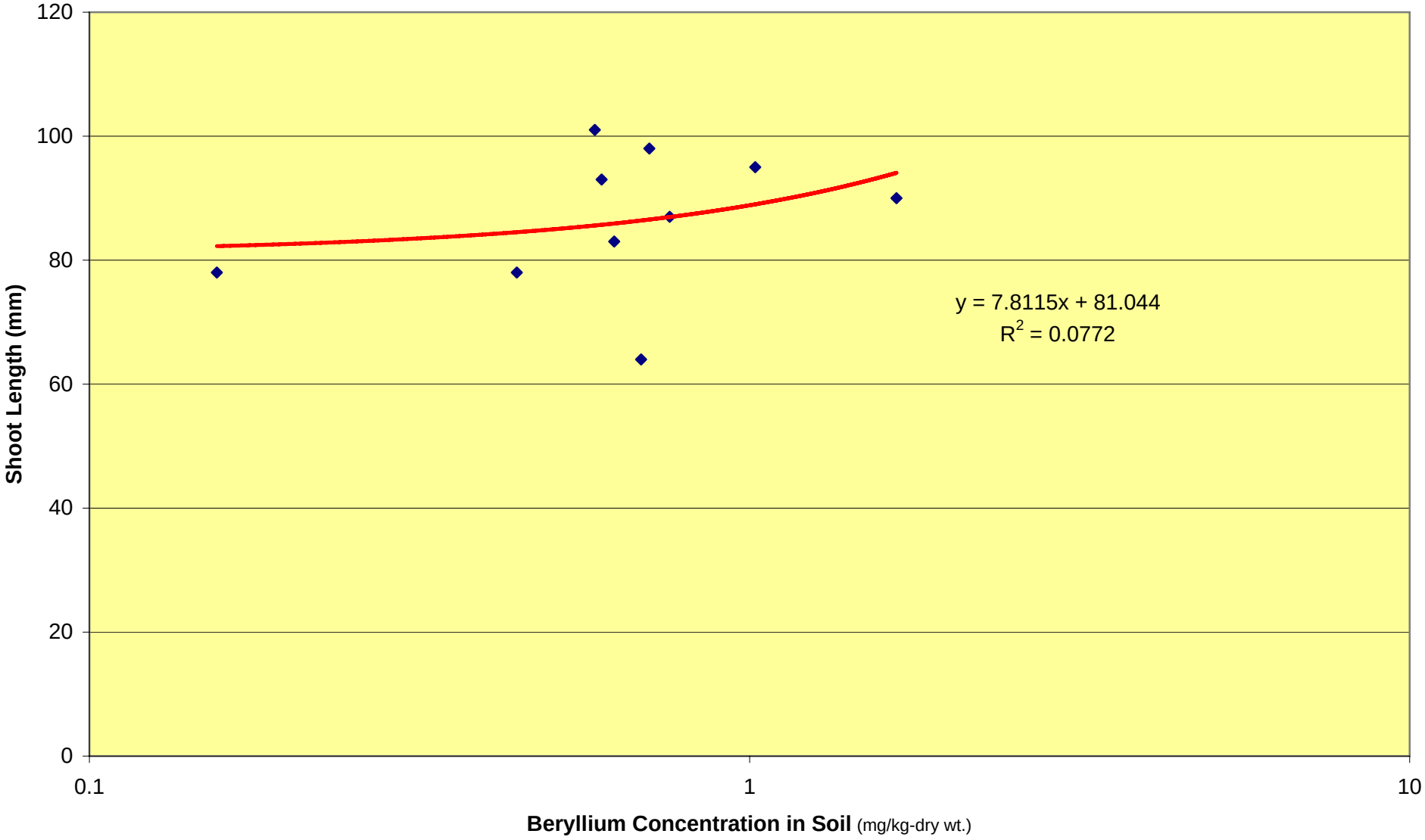


Figure 6-3
Copper in Soil and Rye Grass Mean Shoot Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

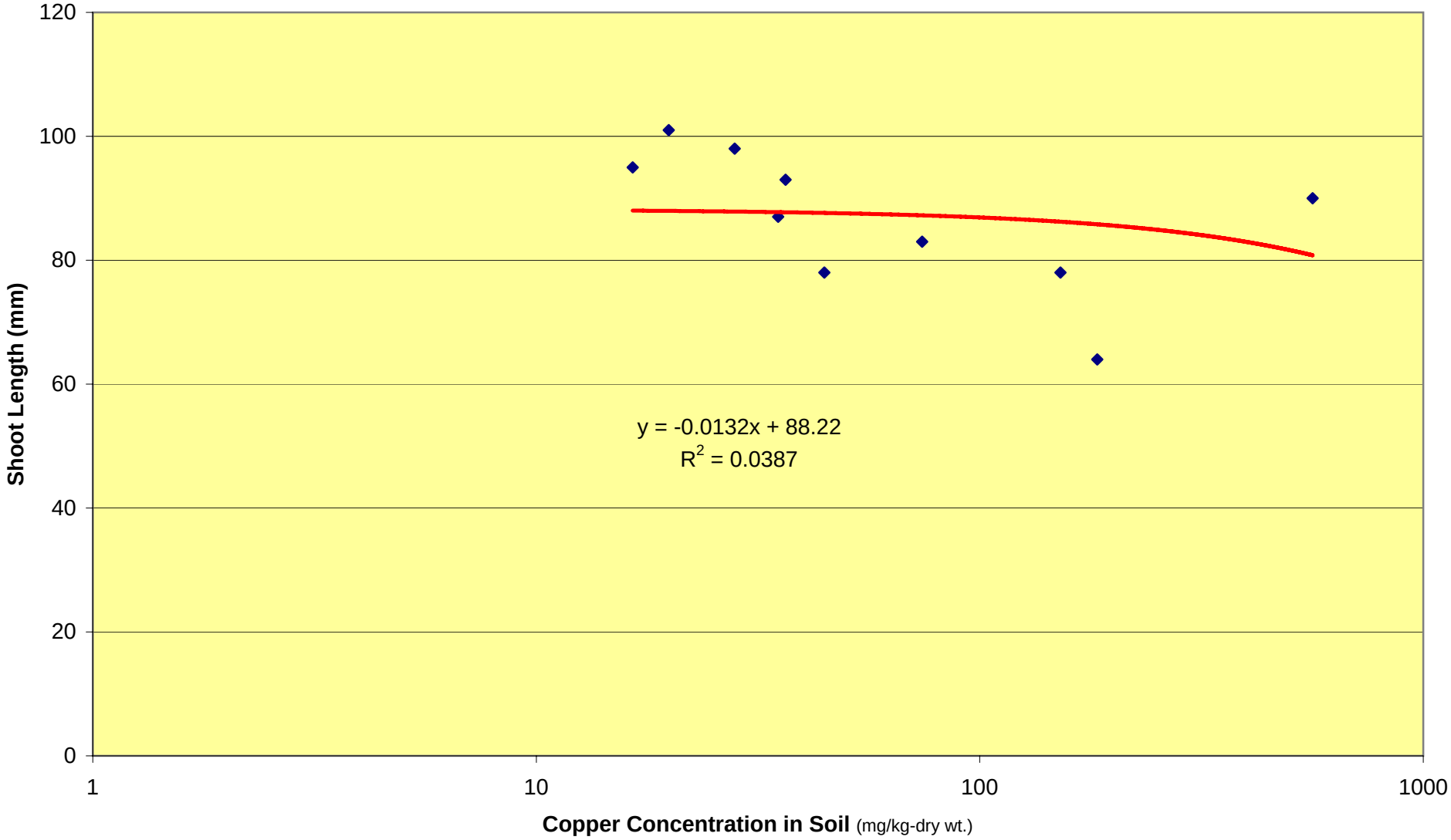


Figure 6-4
Lead in Soil and Rye Grass Mean Shoot Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

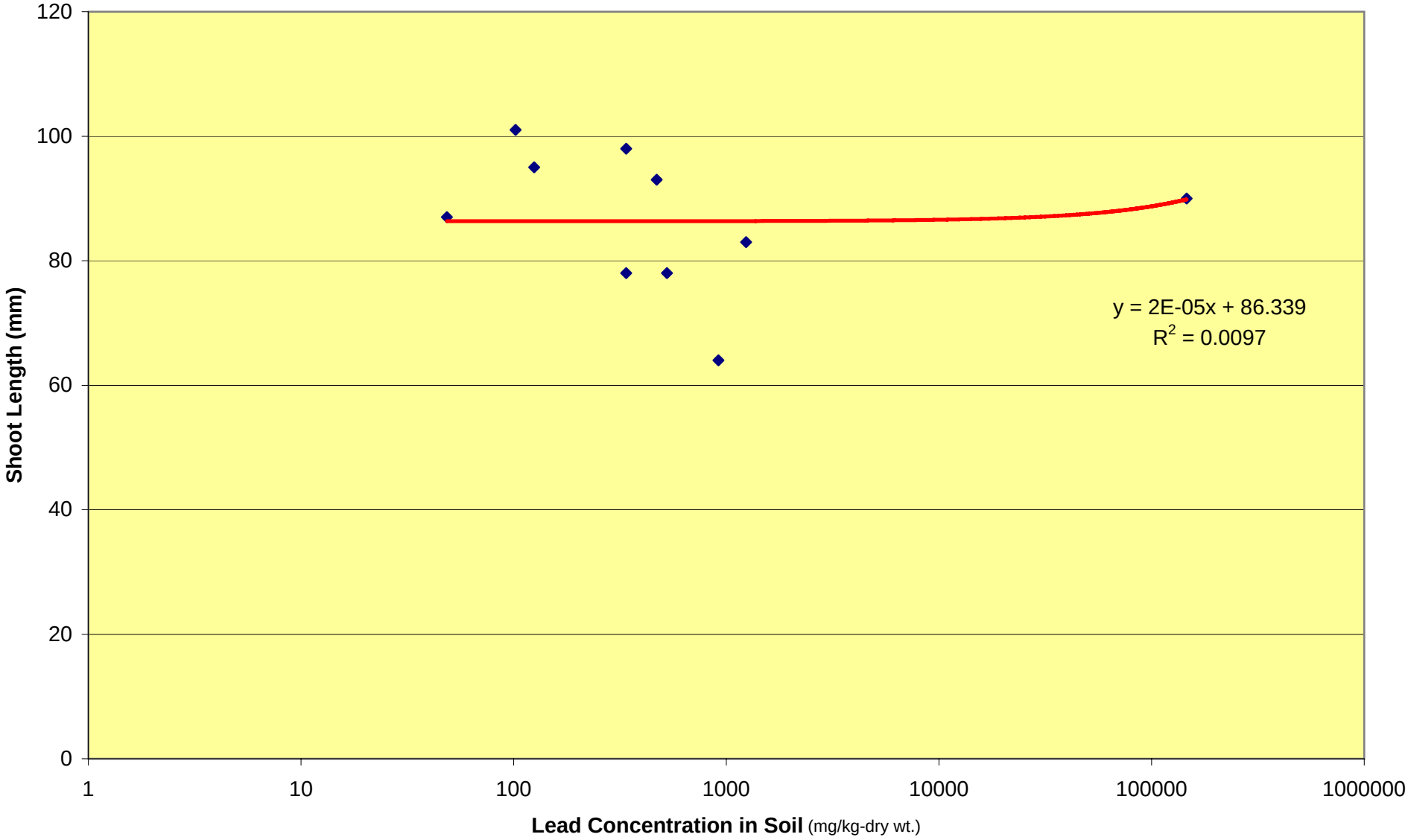


Figure 6-5
Zinc in Soil and Rye Grass Mean Shoot Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

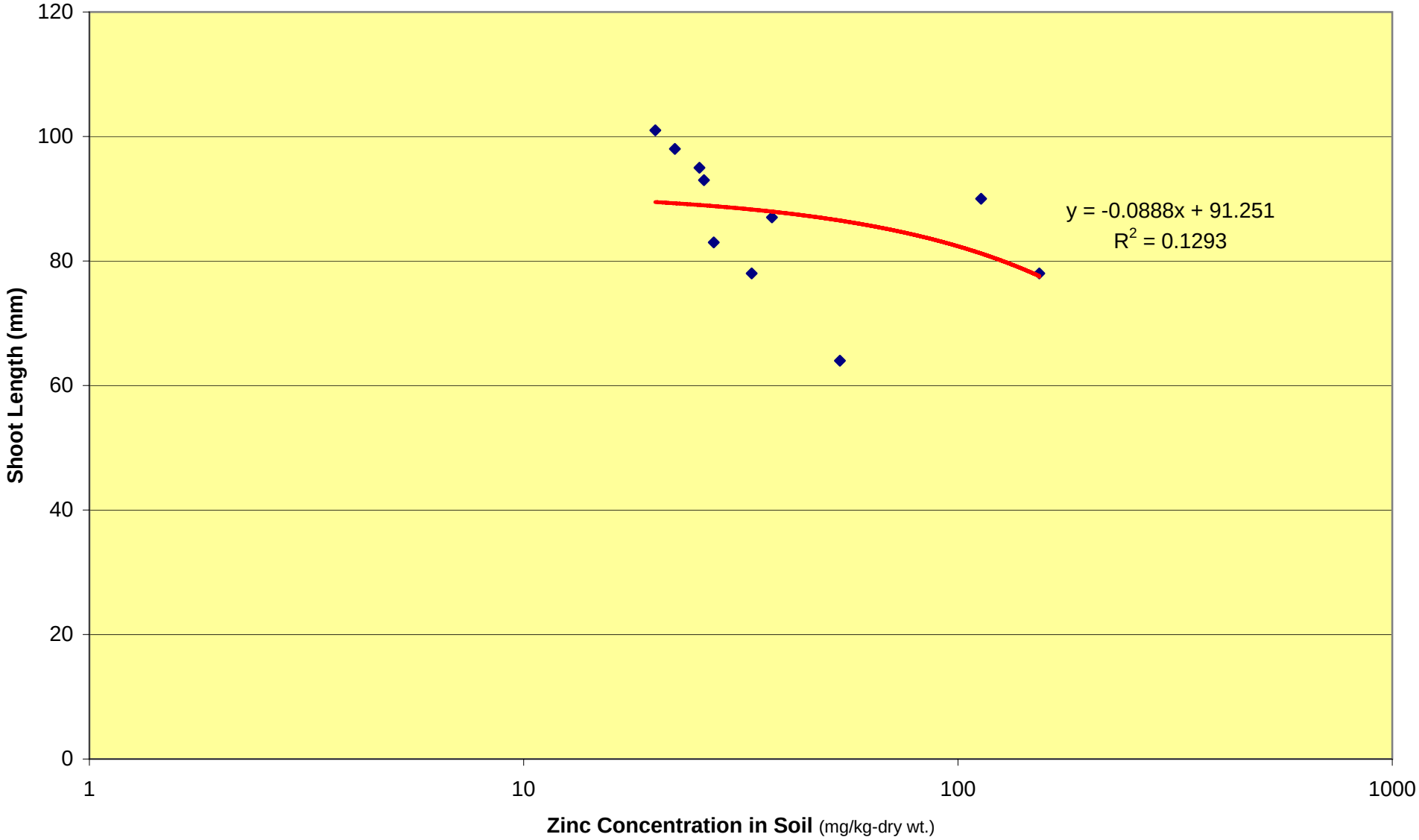


Figure 6-6
Antimony in Soil and Rye Grass Mean Root Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

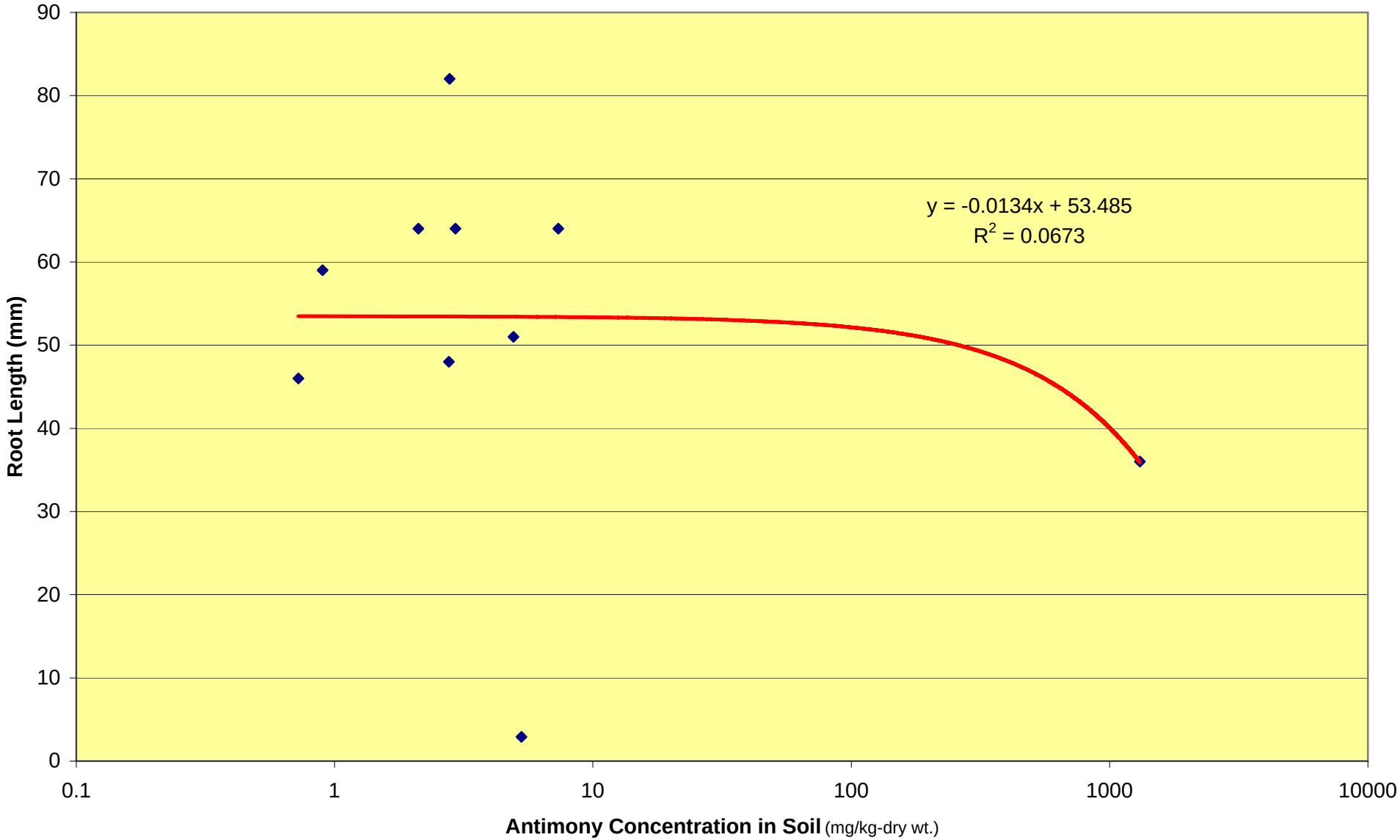


Figure 6-7
Beryllium in Soil and Rye Grass Mean Root Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

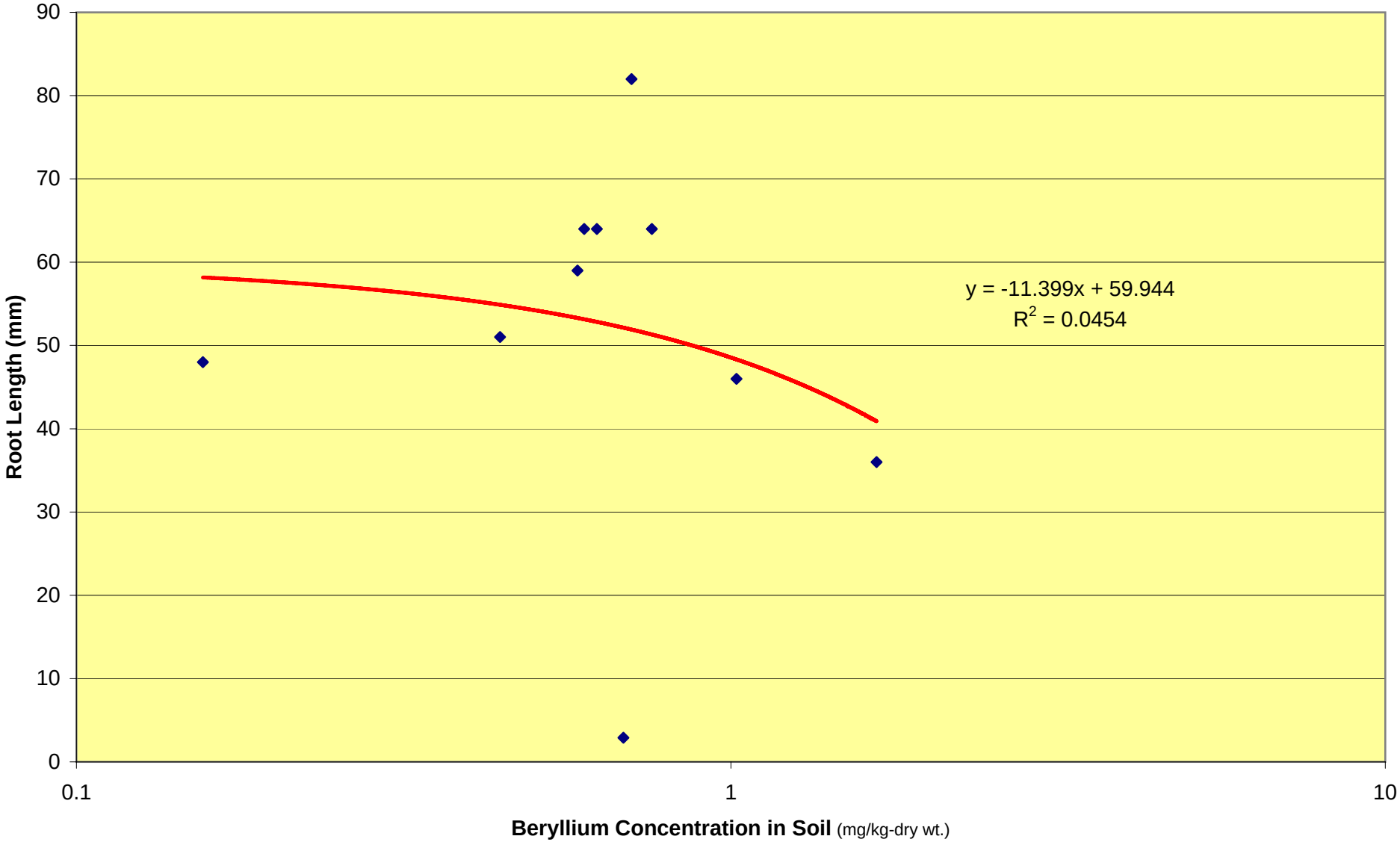


Figure 6-8
Copper in Soil and Rye Grass Mean Root Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

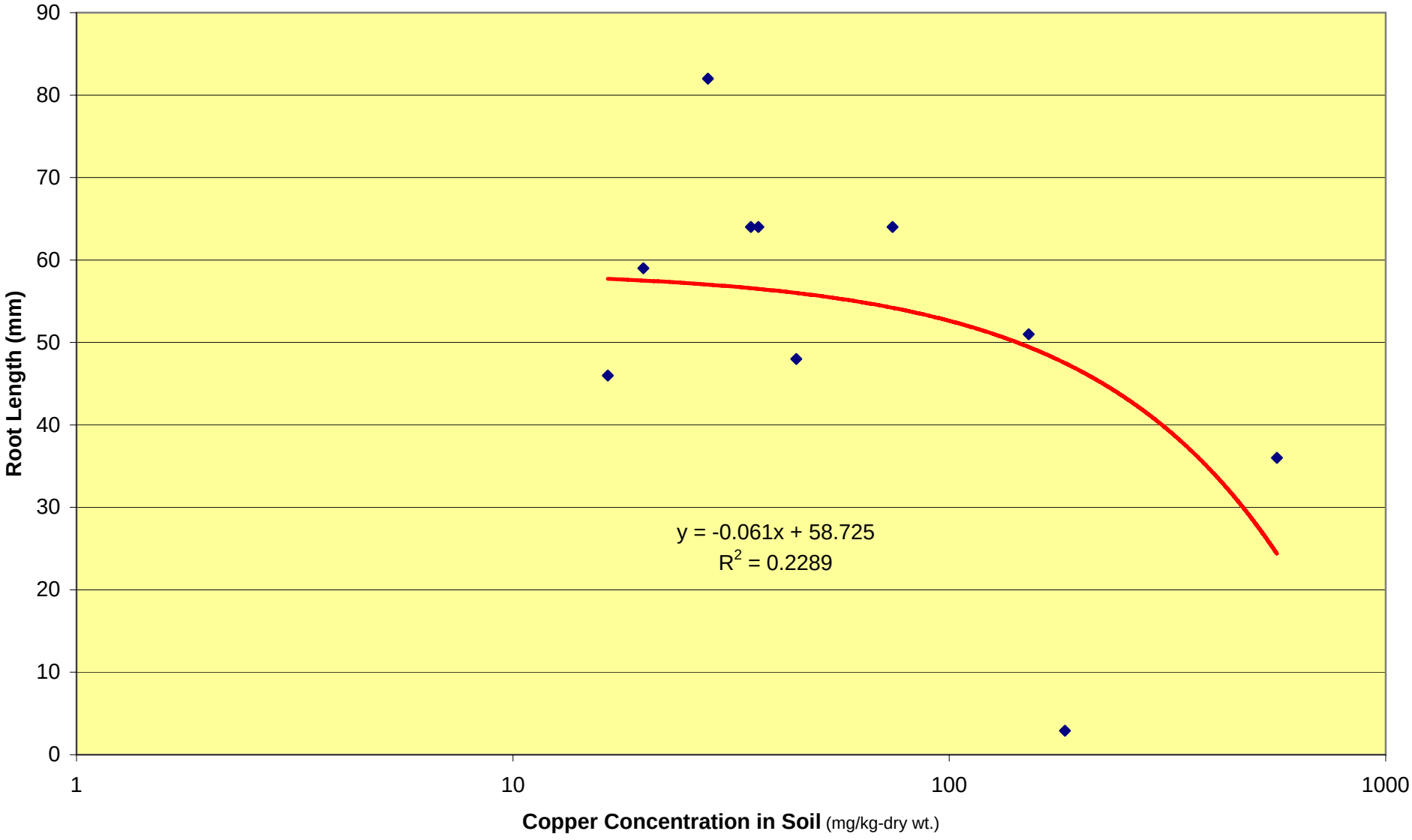


Figure 6-9
Lead in Soil and Rye Grass Mean Root Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

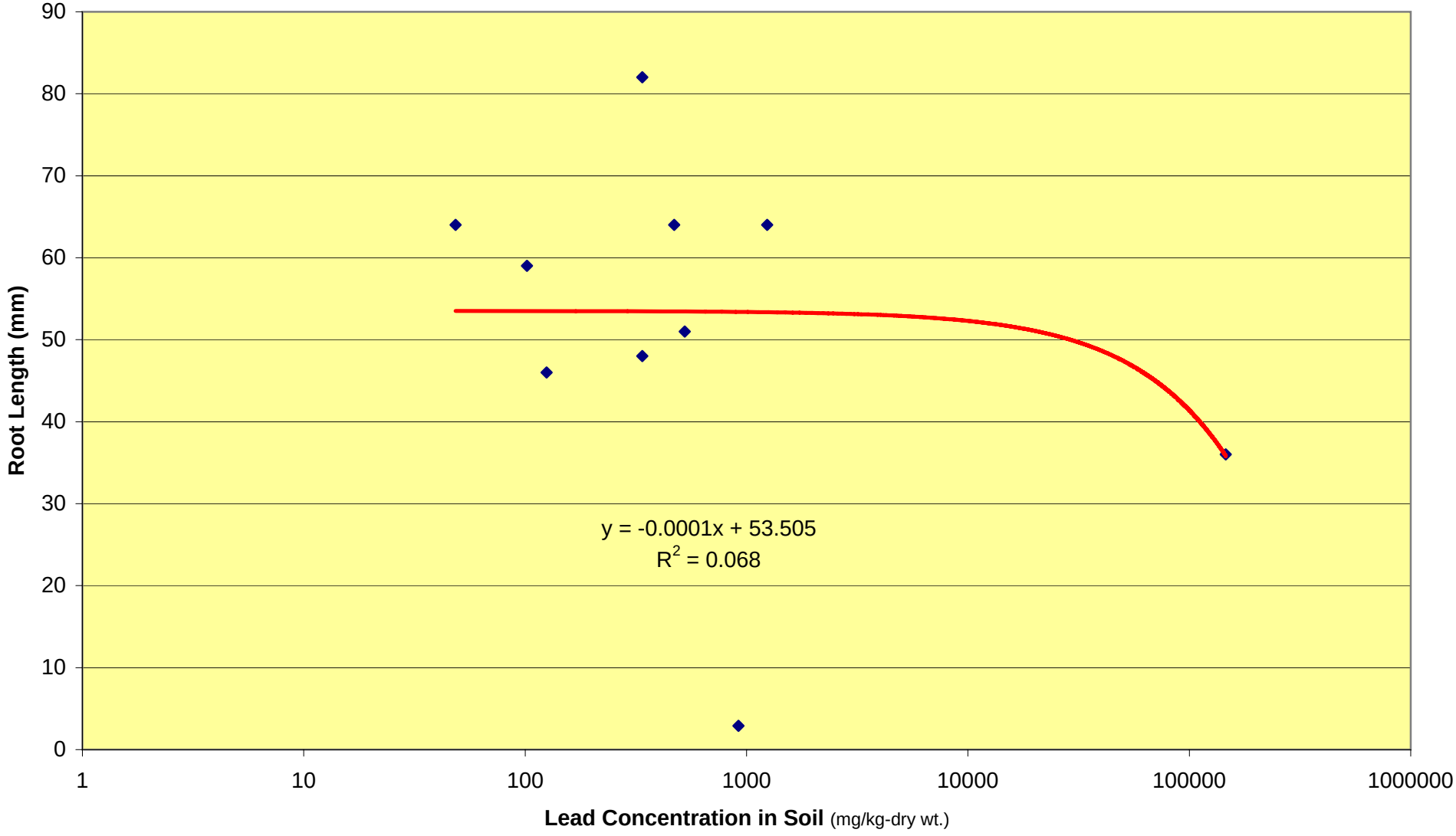


Figure 6-10
Zinc in Soil and Rye Grass Mean Root Length
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

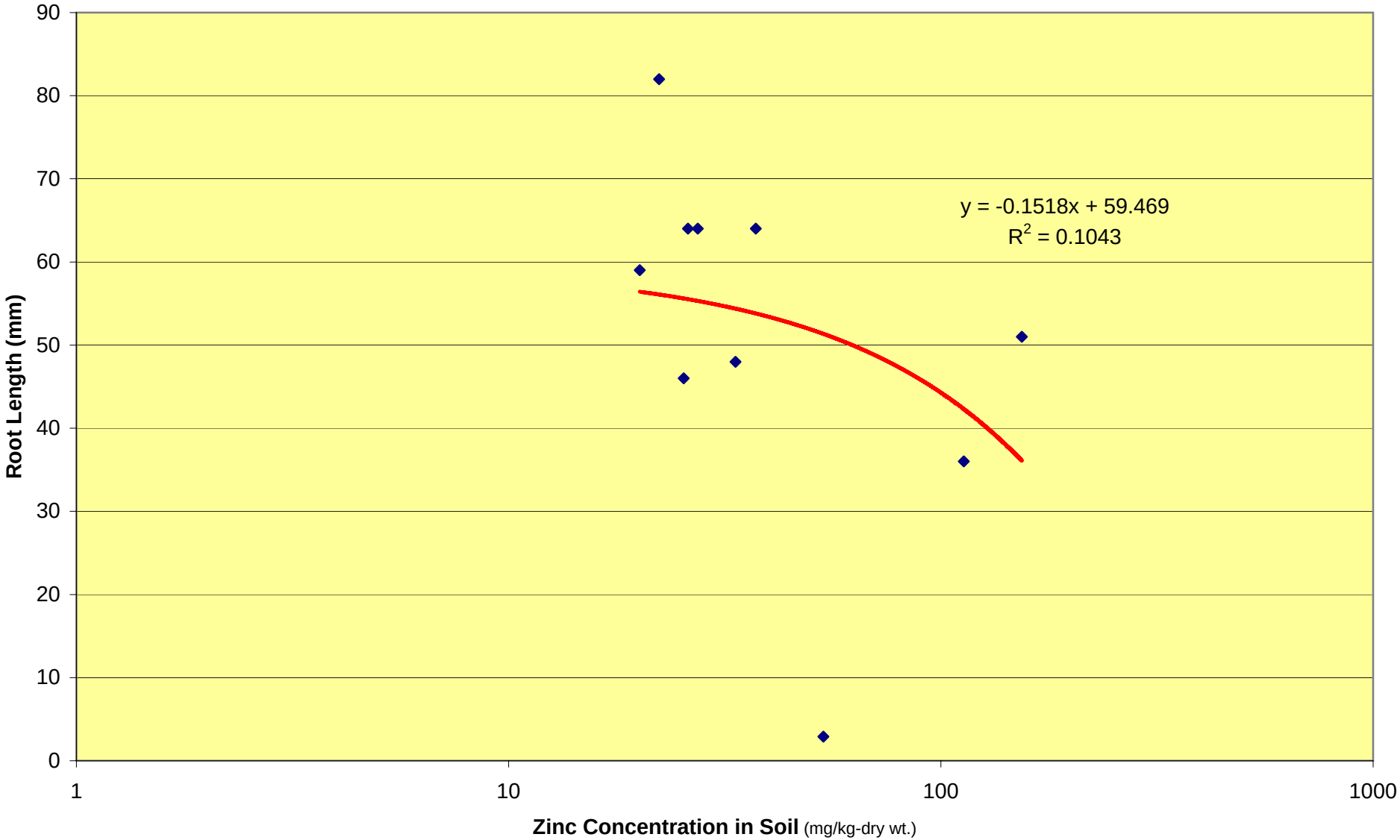


Figure 6-11
Antimony in Soil and Rye Grass Plant Weight
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

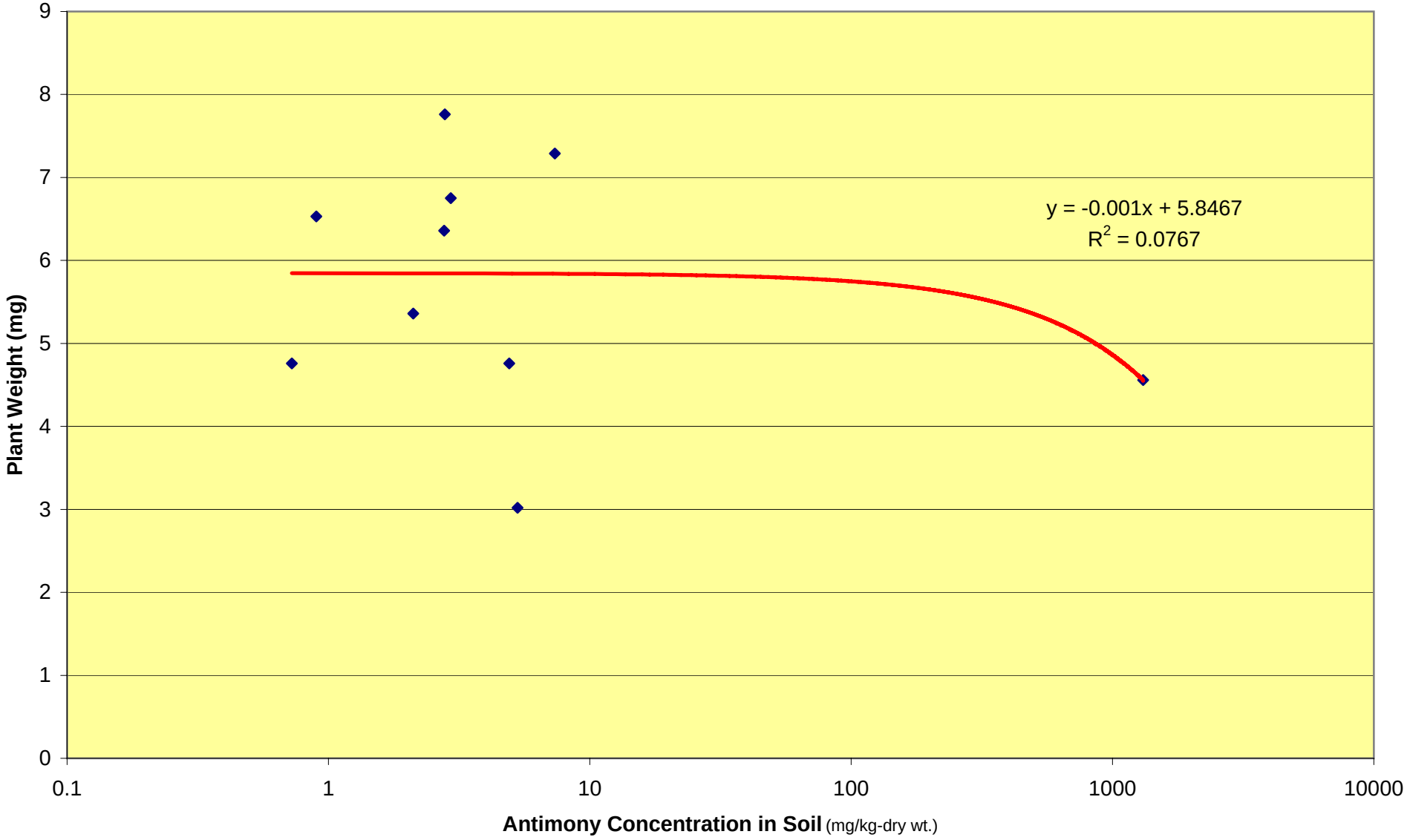


Figure 6-12
Beryllium in Soil and Rye Grass Plant Weight
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

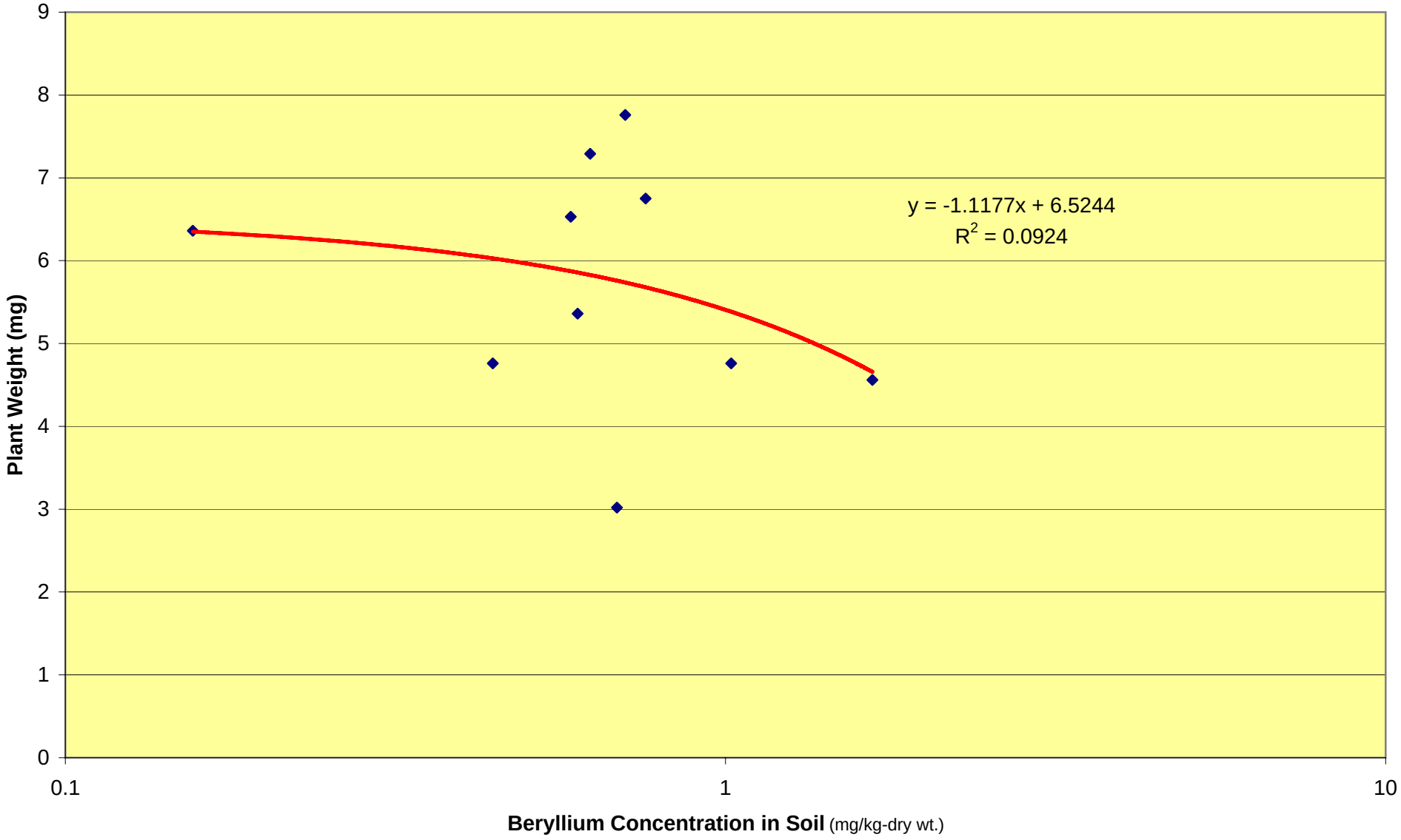


Figure 6-13
Copper in Soil and Rye Grass Plant Weight
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

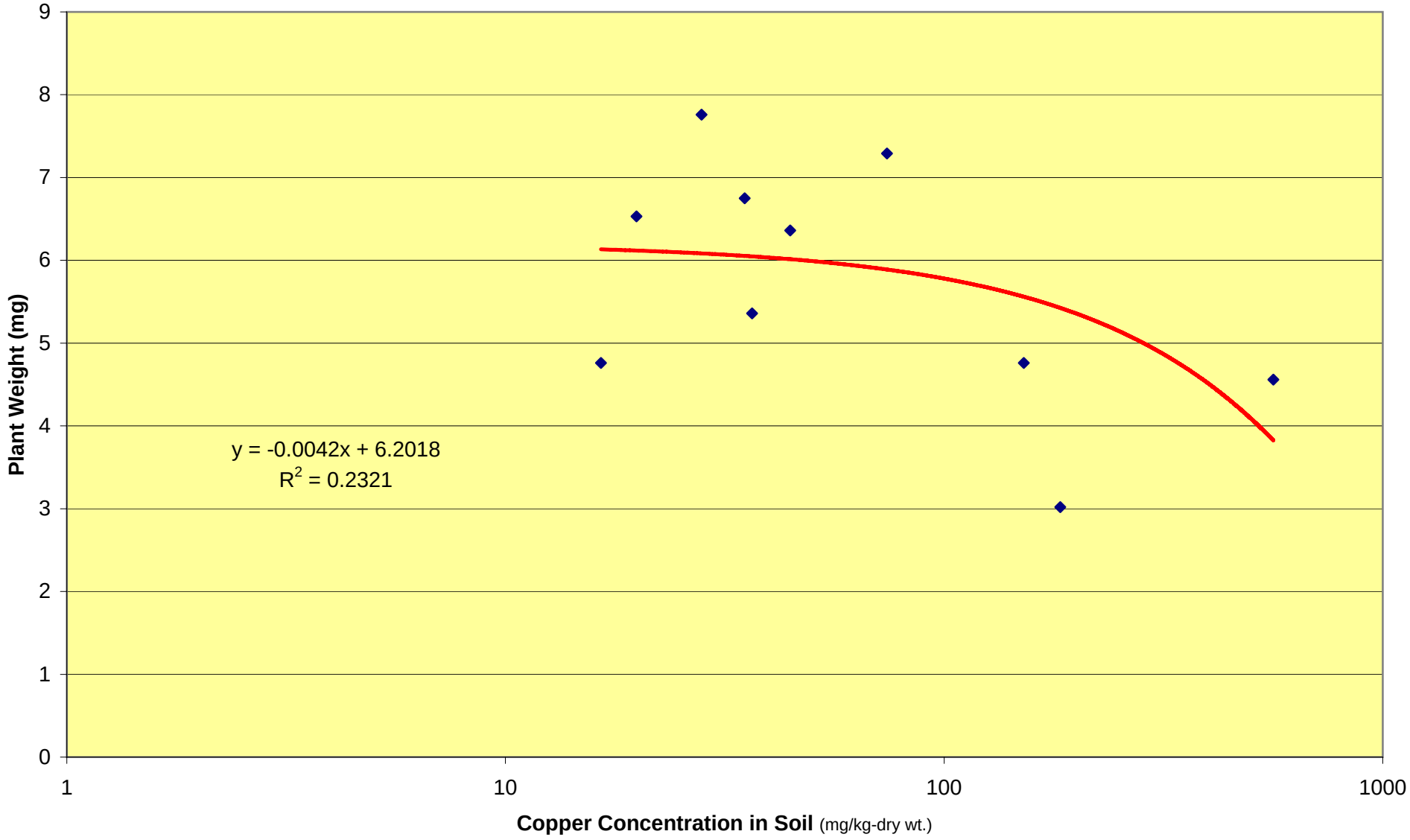


Figure 6-14
Lead in Soil and Rye Grass Plant Weight
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

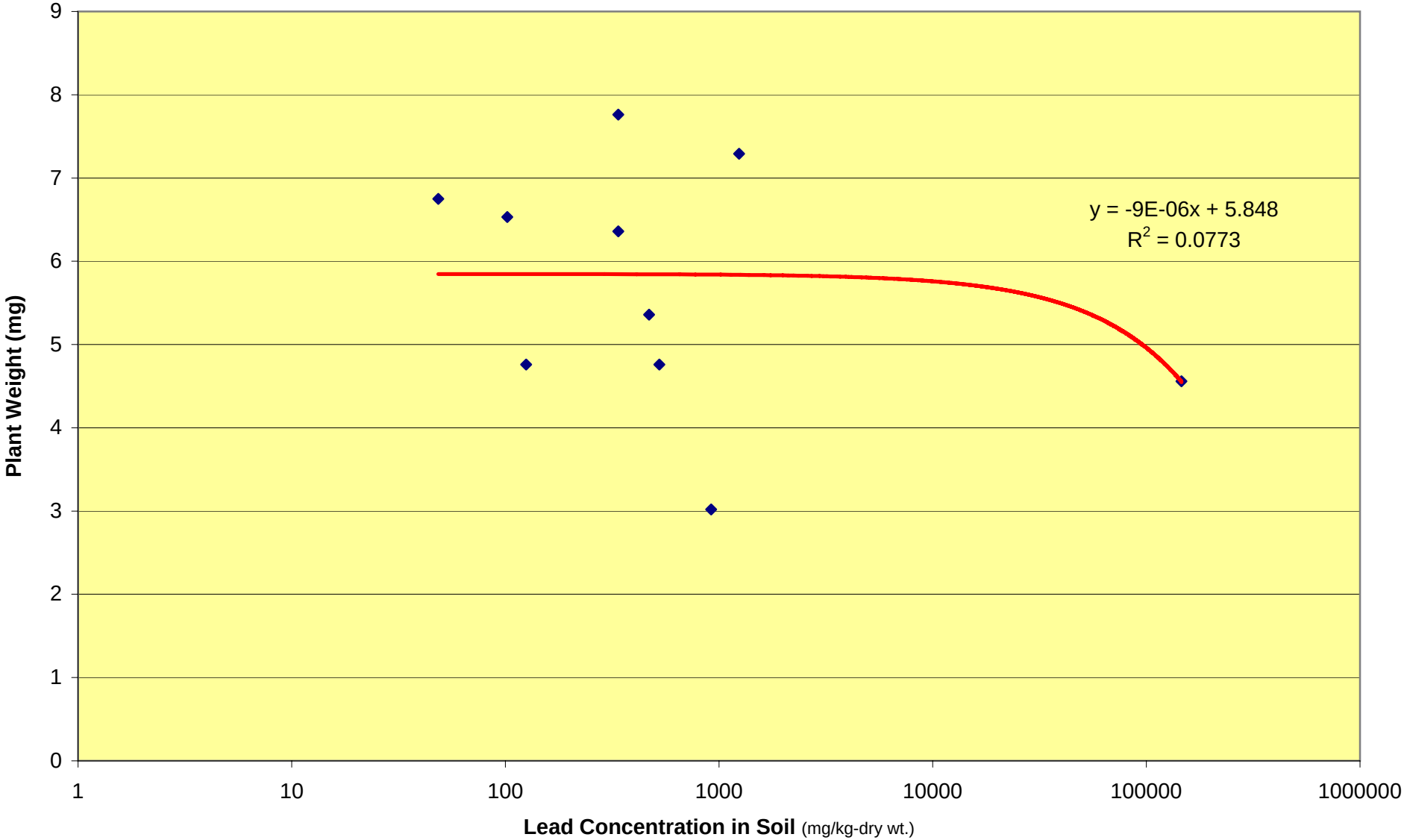


Figure 6-15
Zinc in Soil and Rye Grass Plant Weight
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

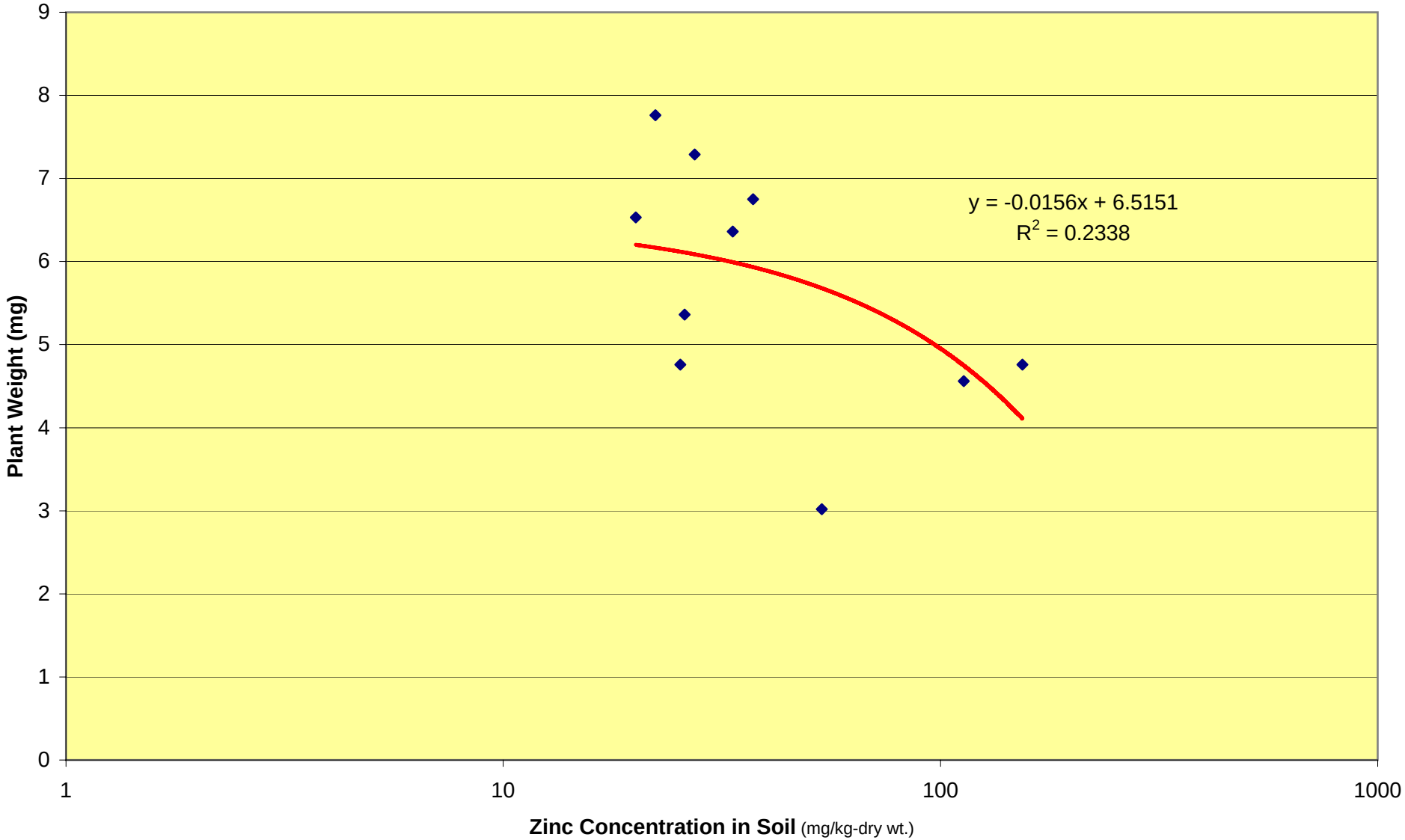
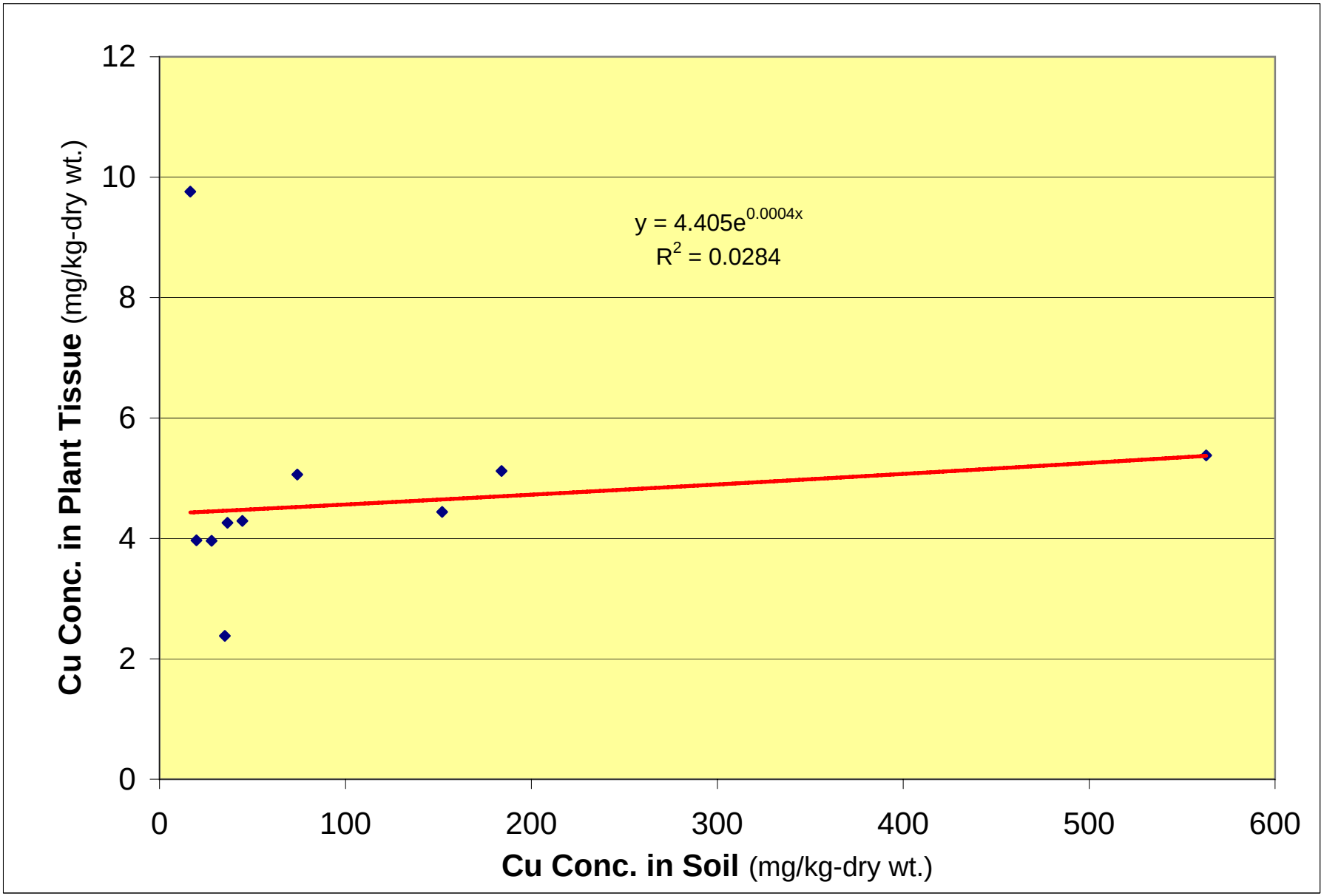
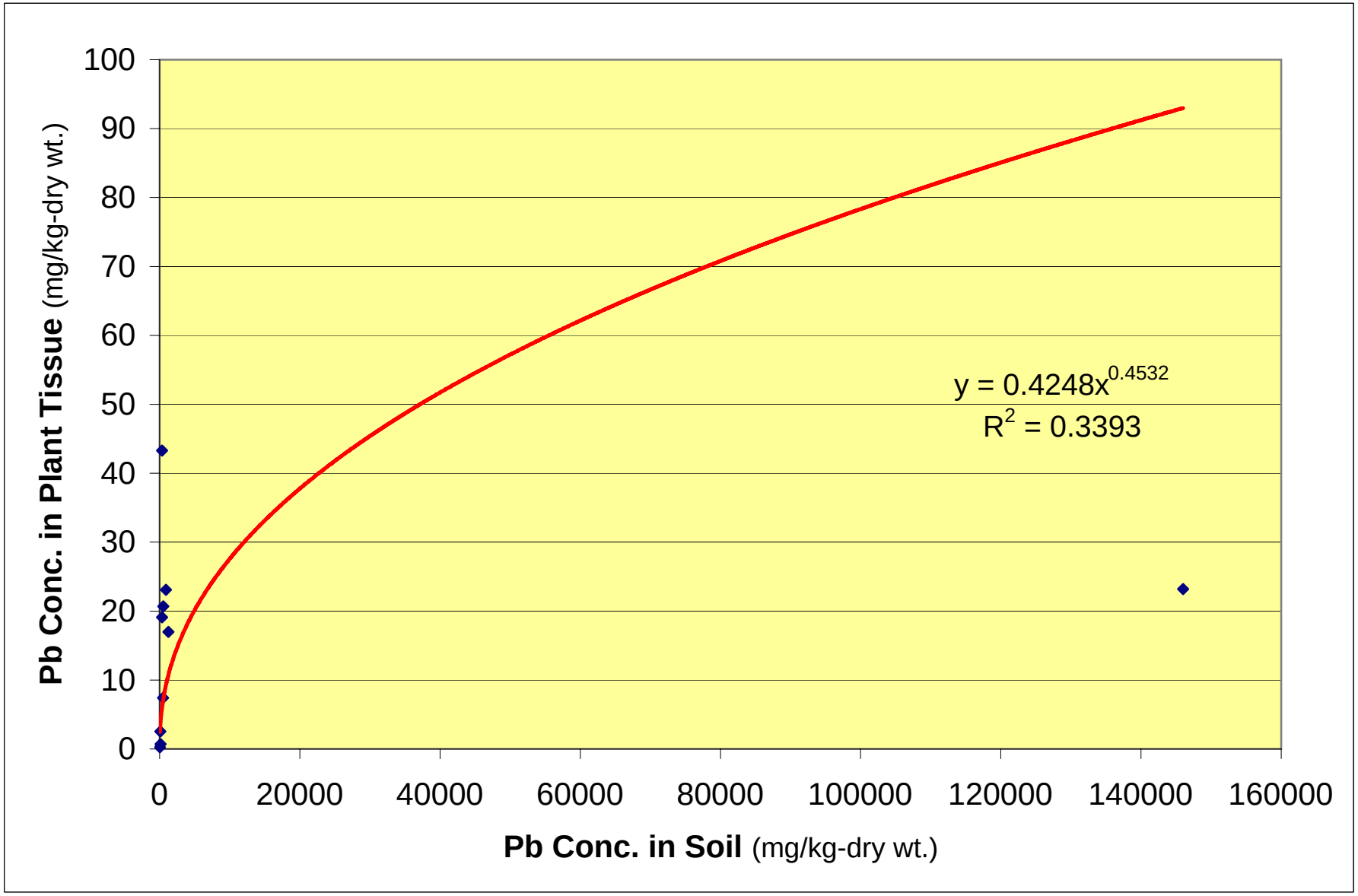


Figure 6-16
Soil-to-Plant BAF (Copper)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



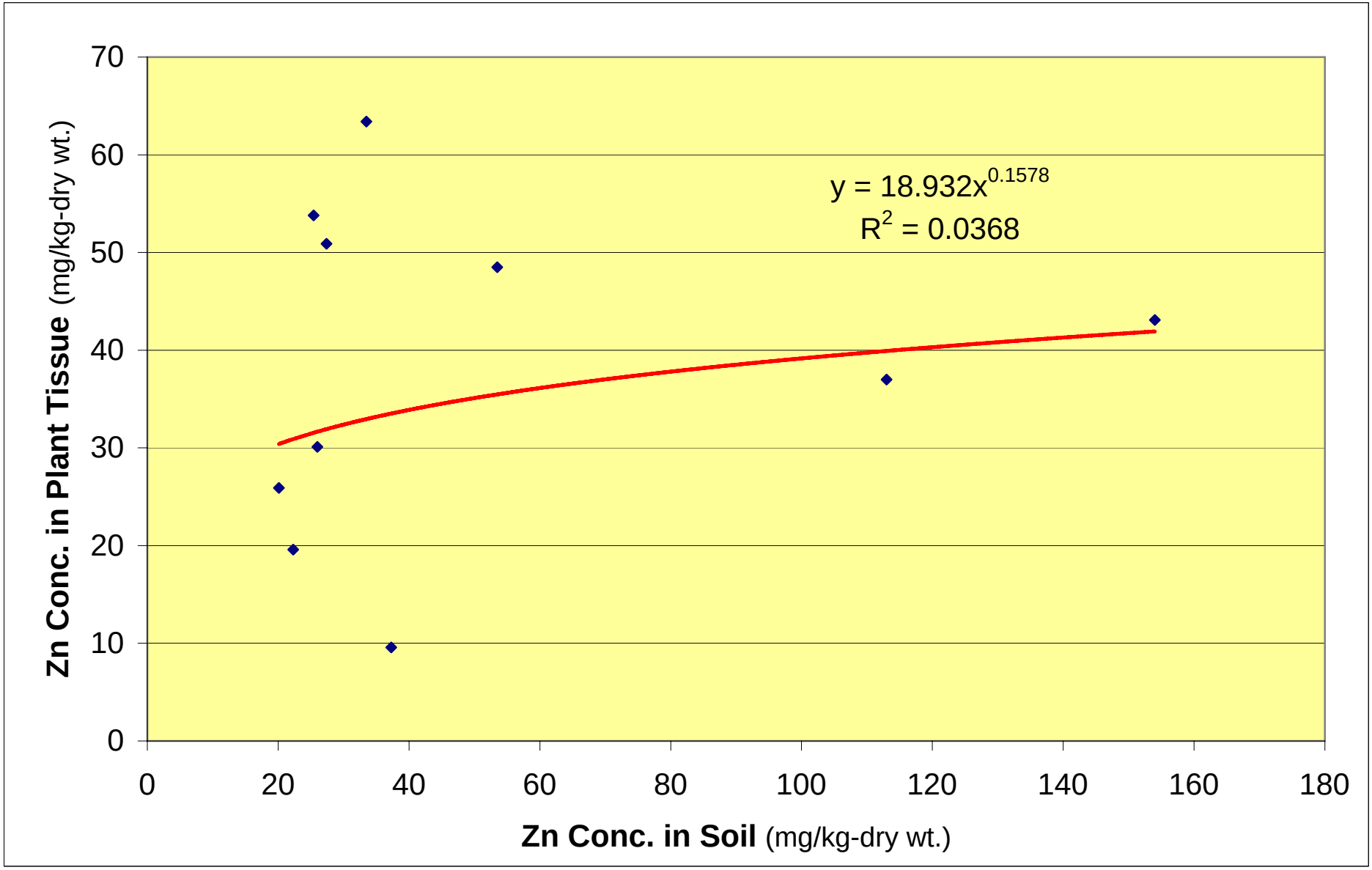
Figures 6-16 thru 6-22_SS-ConcTox.xls plant BAF-Cu Chart 1 (8/3/2007)

Figure 6-17
Soil-to-Plant BAF (Lead)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



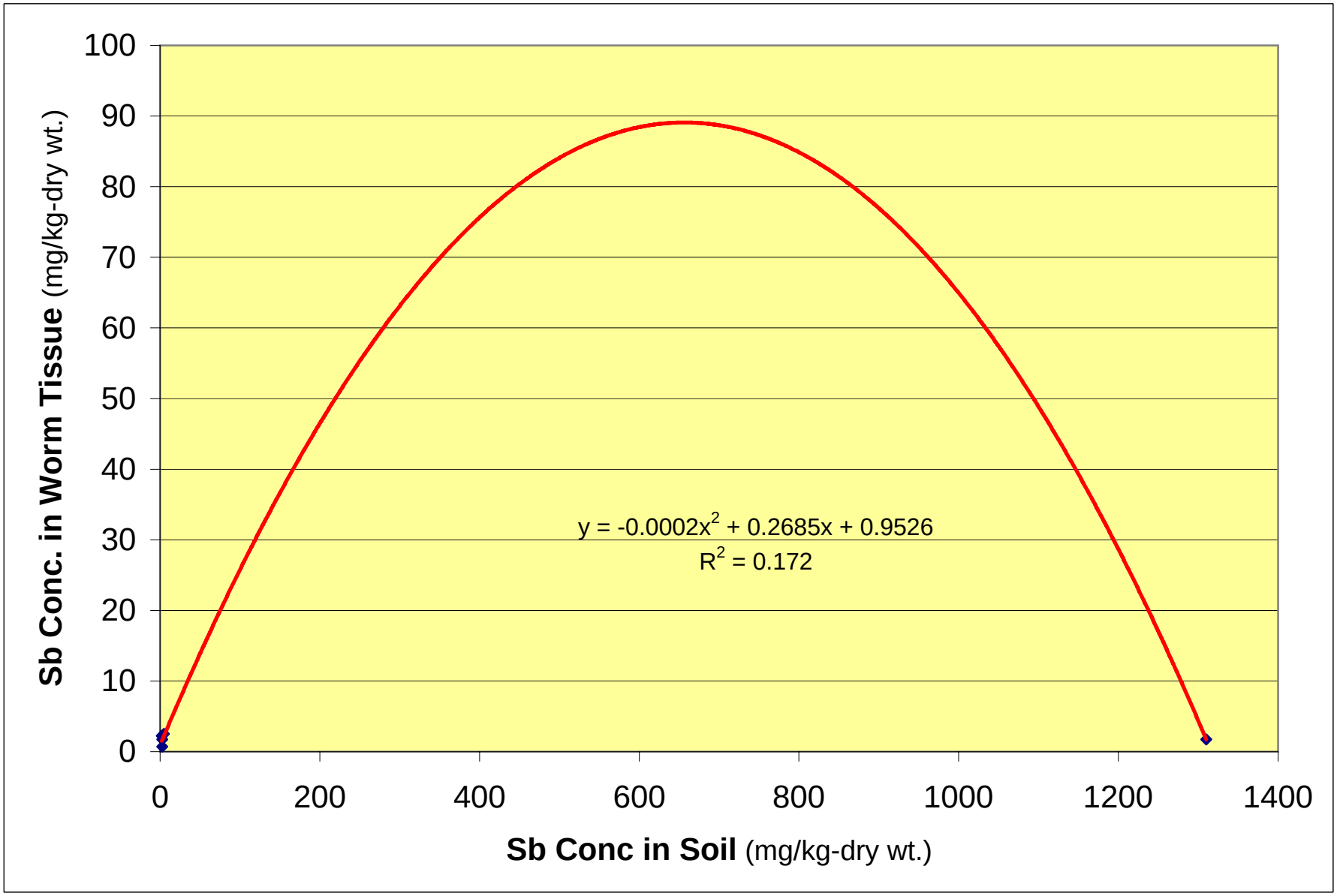
Figures 6-16 thru 6-22_SS-ConcTox.xls plant BAF-Pb Chart 1 (8/3/2007)

Figure 6-18
Soil-to-Plant BAF (Zinc)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



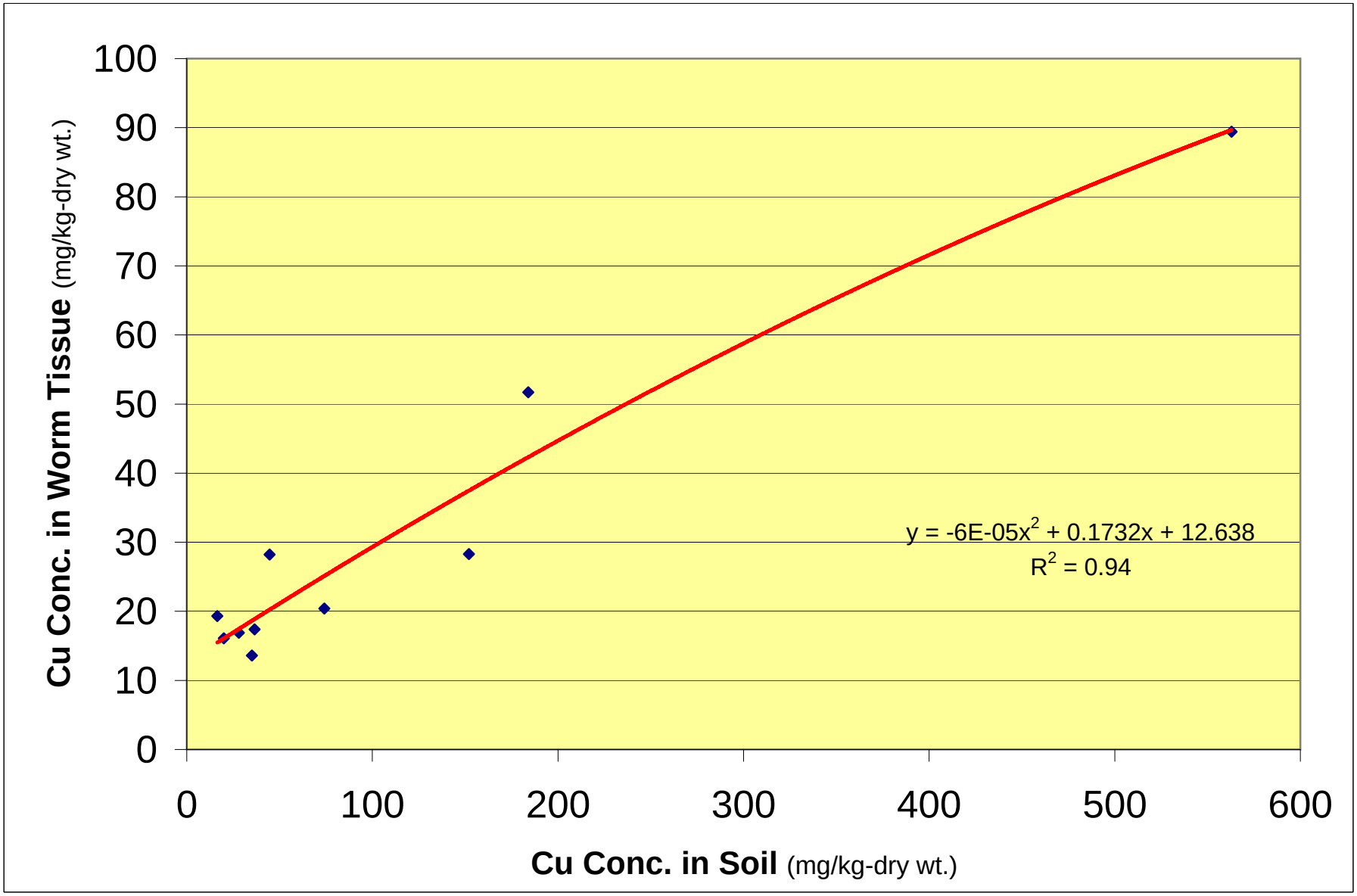
Figures 6-16 thru 6-22_SS-ConcTox.xls plant BAF-Zn Chart 1 (8/3/2007)

Figure 6-19
Soil-to-Earthworm BAF (Antimony)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



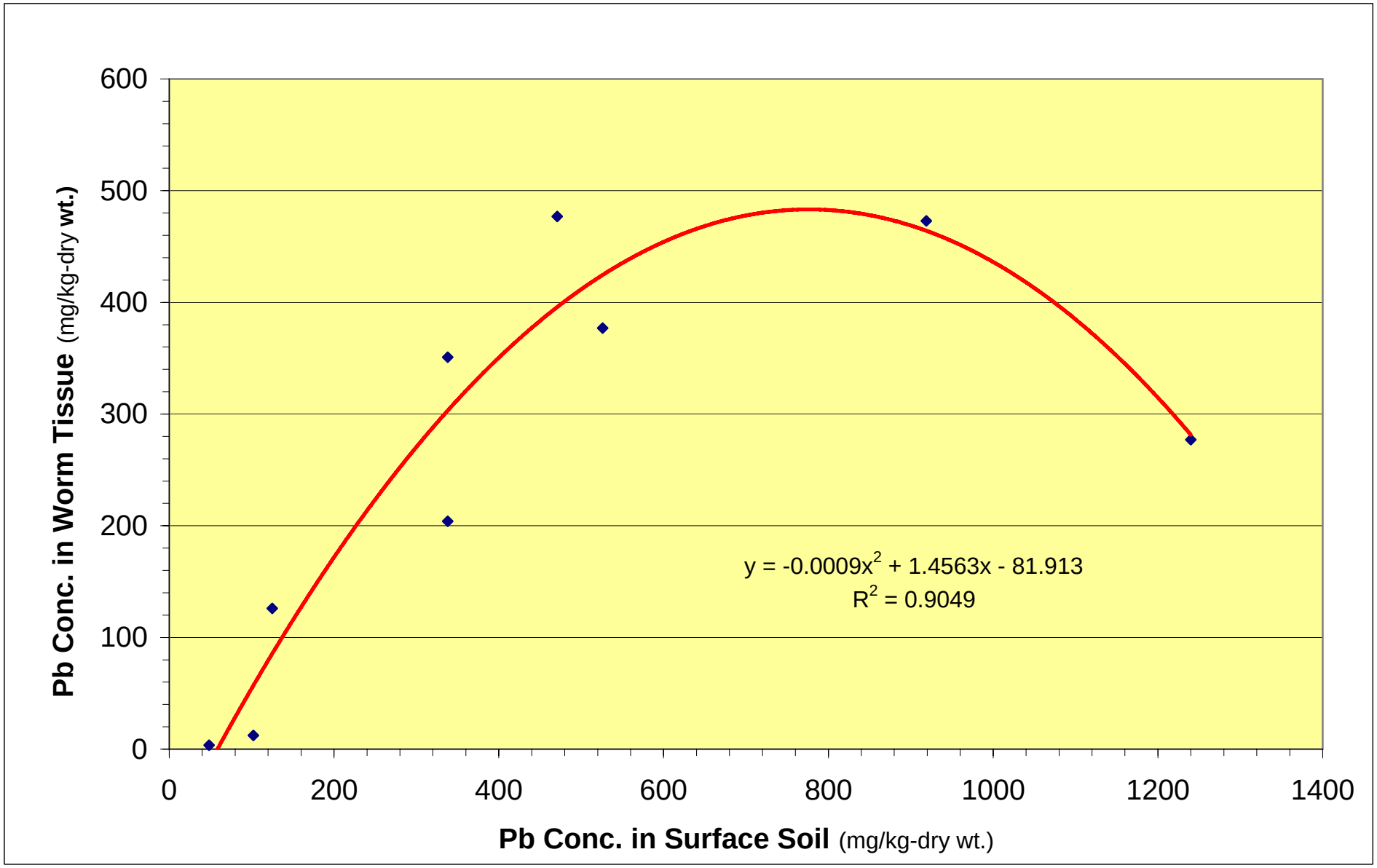
Figures 6-16 thru 6-22_SS-ConcTox.xls worm BAF-Sb Chart 1 (8/3/2007)

Figure 6-20
Soil-to-Earthworm BAF (Copper)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



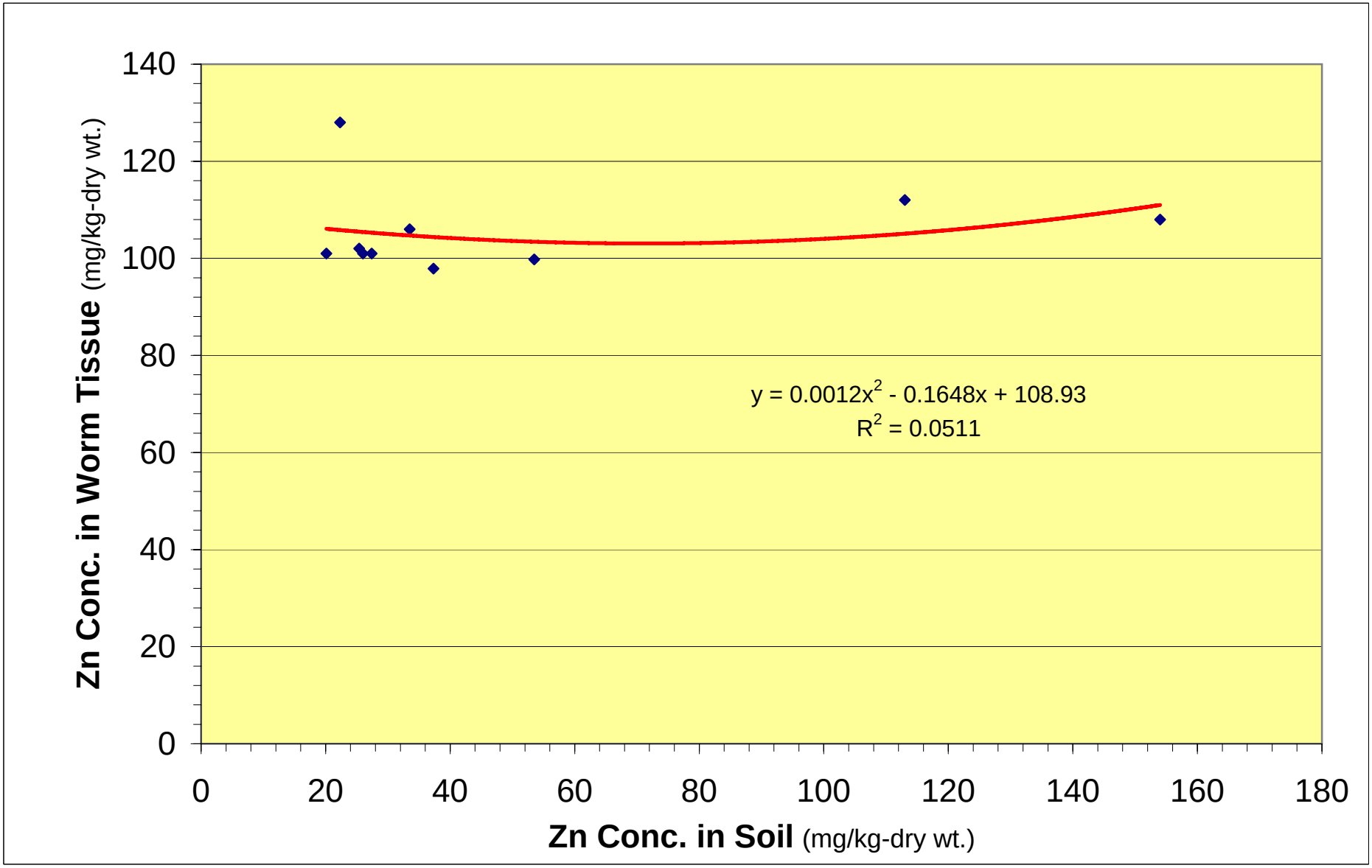
Figures 6-16 thru 6-22_SS-ConcTox.xls worm BAF-Cu Chart 1 (8/3/2007)

Figure 6-21
Soil-to-Earthworm BAF (Lead)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



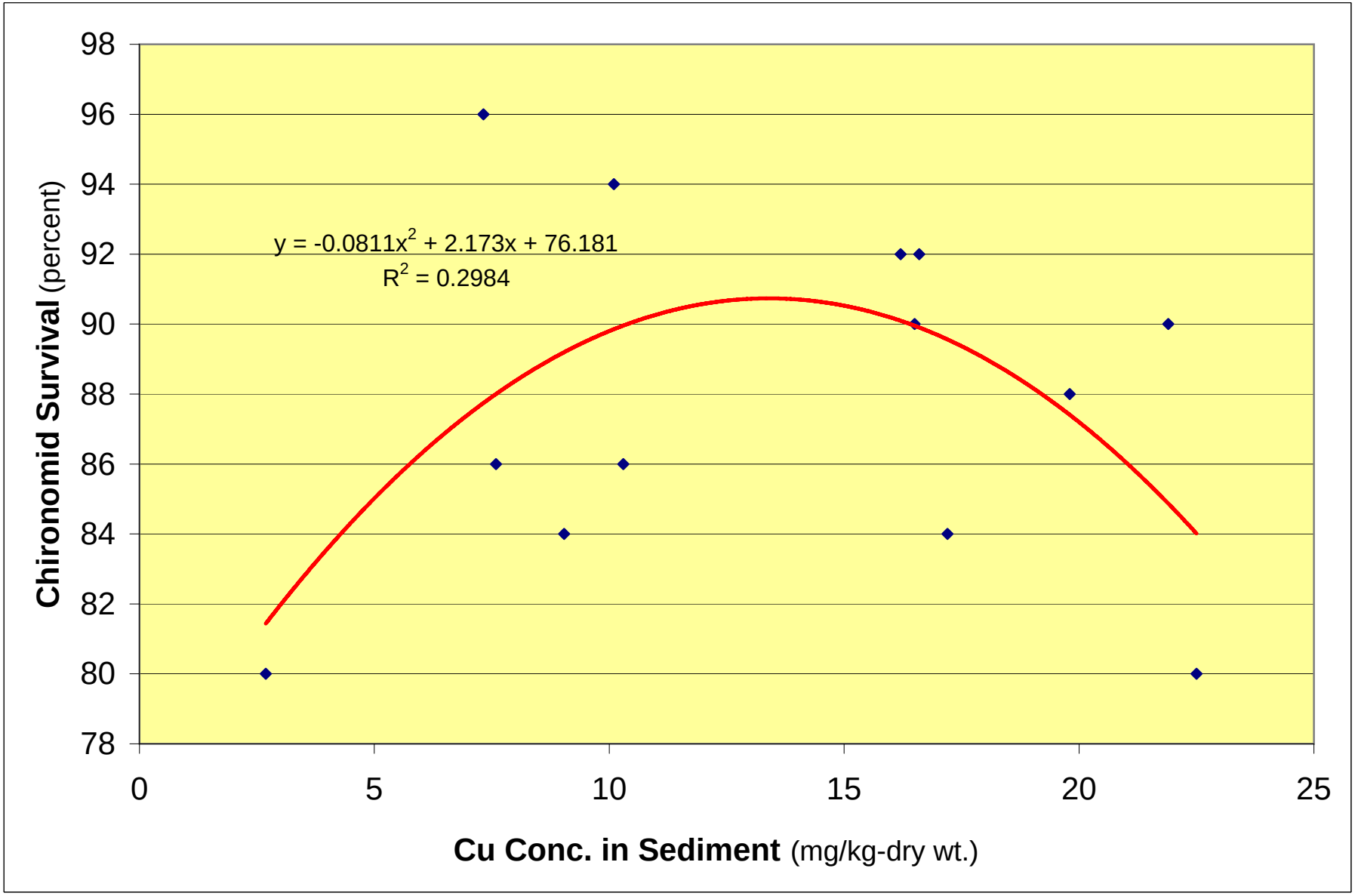
Figures 6-16 thru 6-22_SS-ConcTox.xls worm BAF-Pb Chart 2 (8/3/2007)

Figure 6-22
Soil-to-Earthworm BAF (Zinc)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



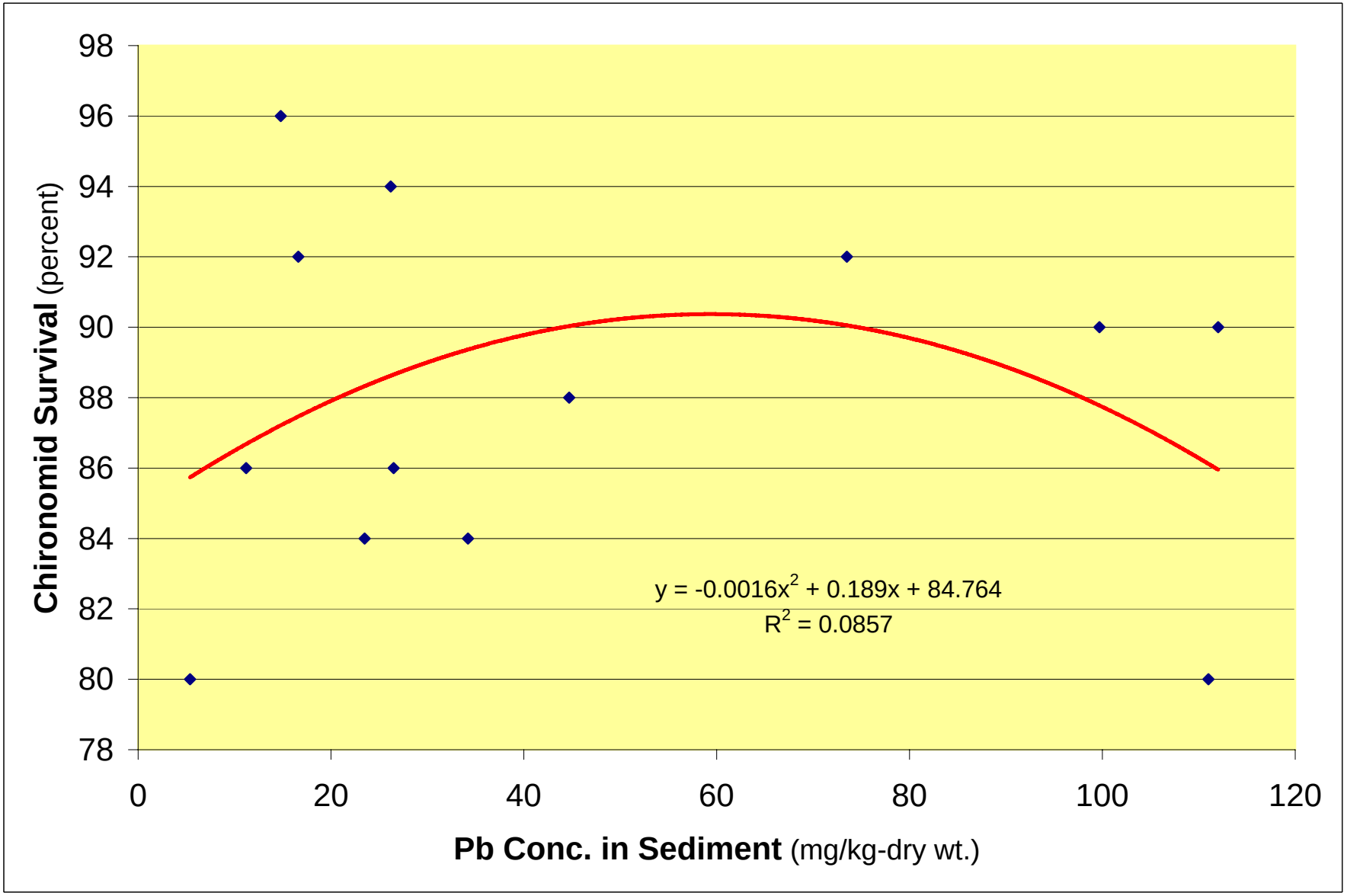
Figures 6-16 thru 6-22_SS-ConcTox.xls worm BAF-Zn Chart 1 (8/3/2007)

Figure 6-23
Copper in Sediment and Chironomid Survival
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



Figures 6-23 thru 6-28_SD-ConcTox.xls Chiron-Cu-survival Chart 1 (8/3/2007)

Figure 6-24
Lead in Sediment and Chironomid Survival
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



Figures 6-23 thru 6-28_SD-ConcTox.xls Chiron-Pb-survival Chart 1 (8/3/2007)

Figure 6-25
Copper in Sediment and Chironomid Growth
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

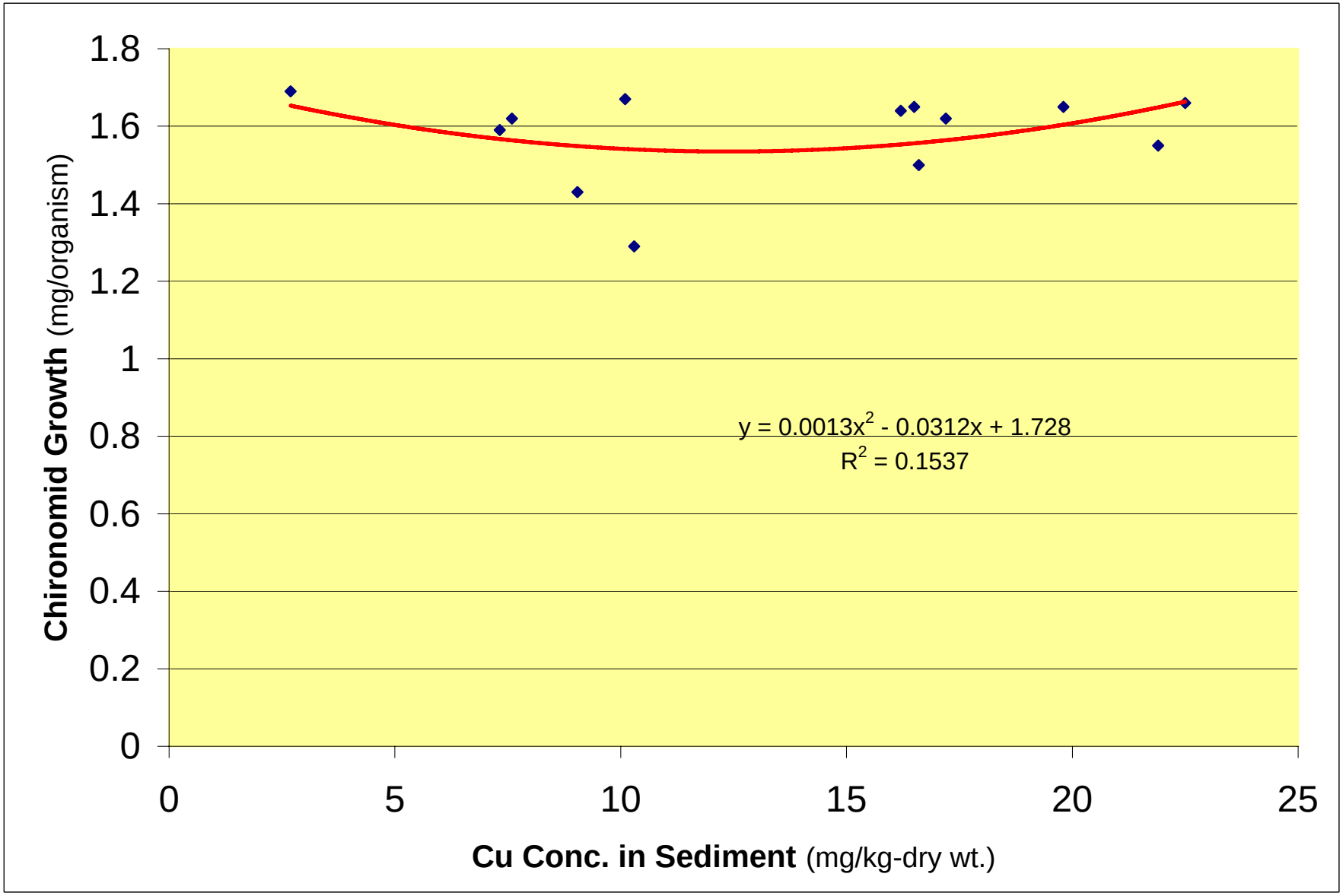
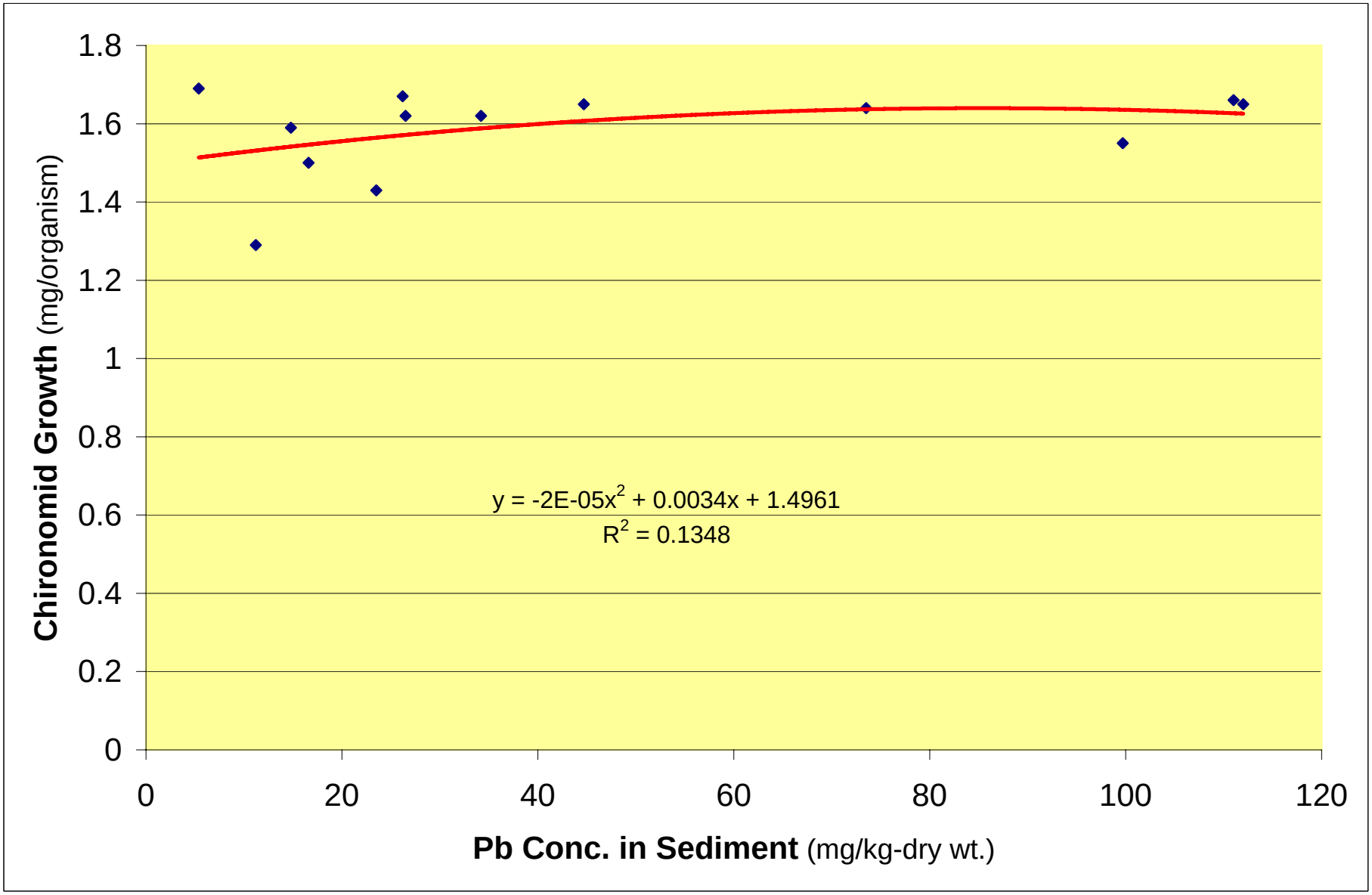
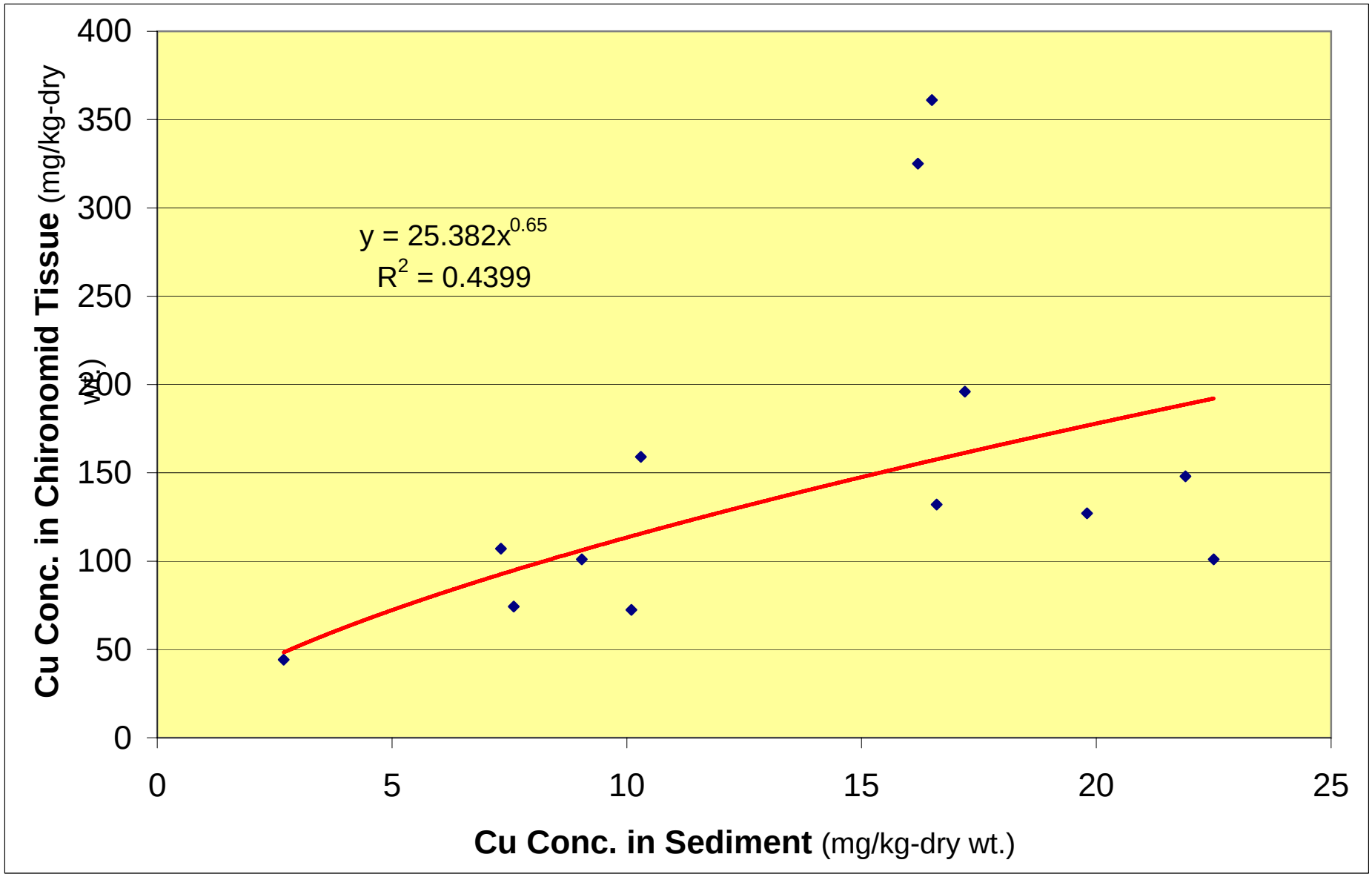


Figure 6-26
Lead in Sediment and Chironomid Growth
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



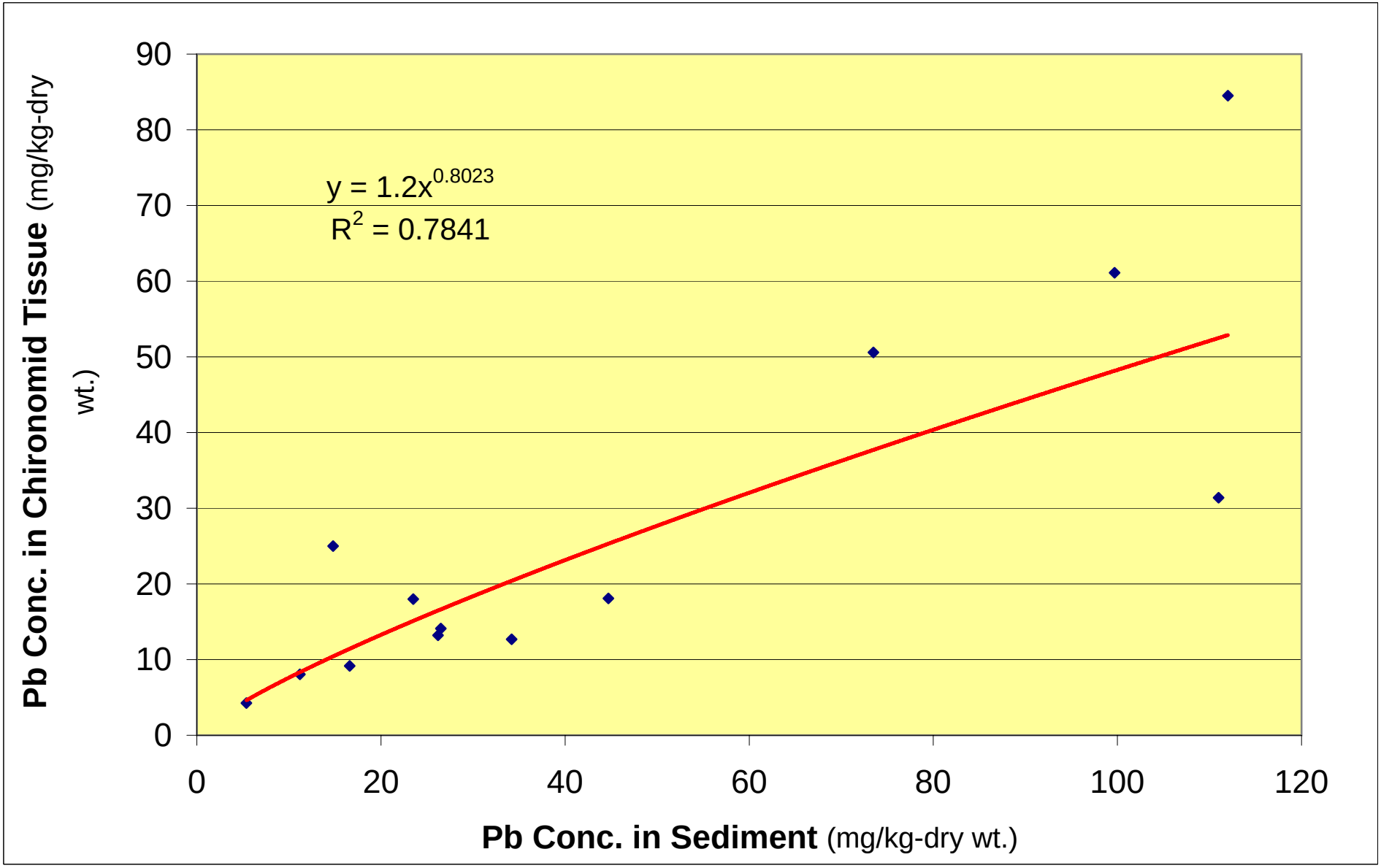
Figures 6-23 thru 6-28_SD-ConcTox.xls Chiron-Pb-growth Chart 1 (8/3/2007)

Figure 6-27
Sediment-to-Midge BAF (Copper)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



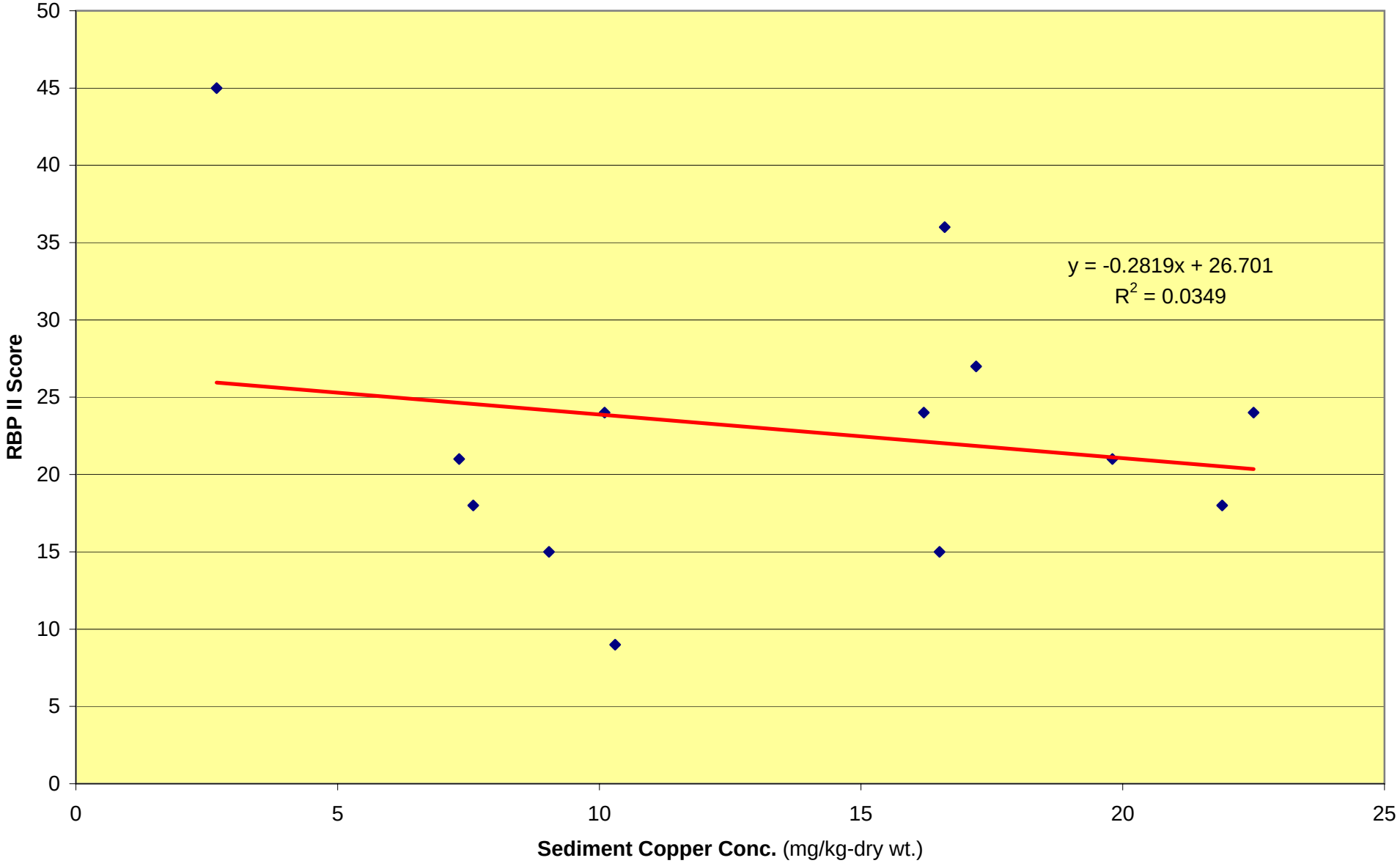
Figures 6-23 thru 6-28_SD-ConcTox.xls chiron BAF-Cu Chart 1 (8/3/2007)

Figure 6-28
Sediment-to-Midge BAF (Lead)
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



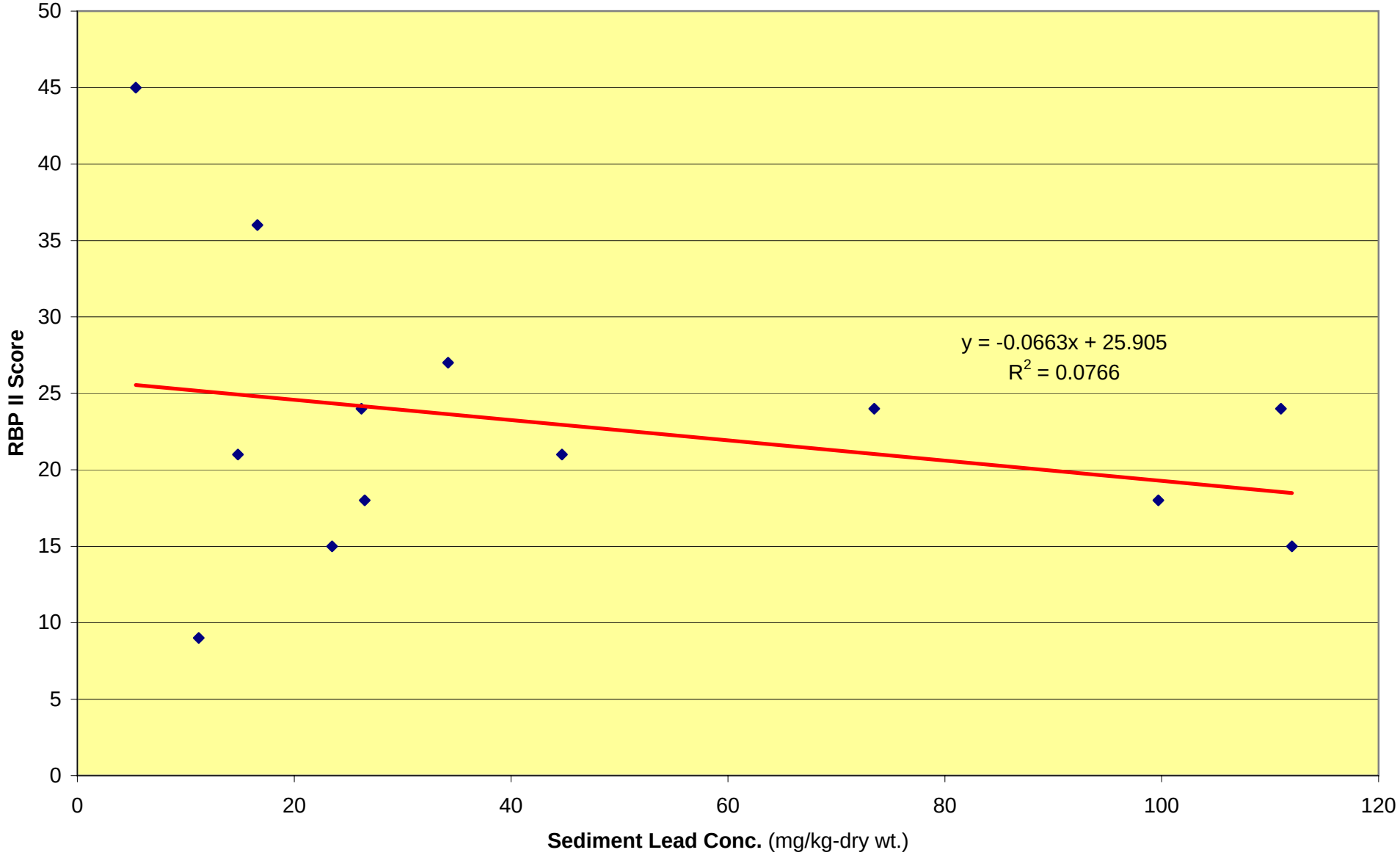
Figures 6-23 thru 6-28_SD-ConcTox.xls chiron BAF-Pb Chart 1 (8/3/2007)

Figure 6-29
Copper Concentrations and RBP II Scores
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



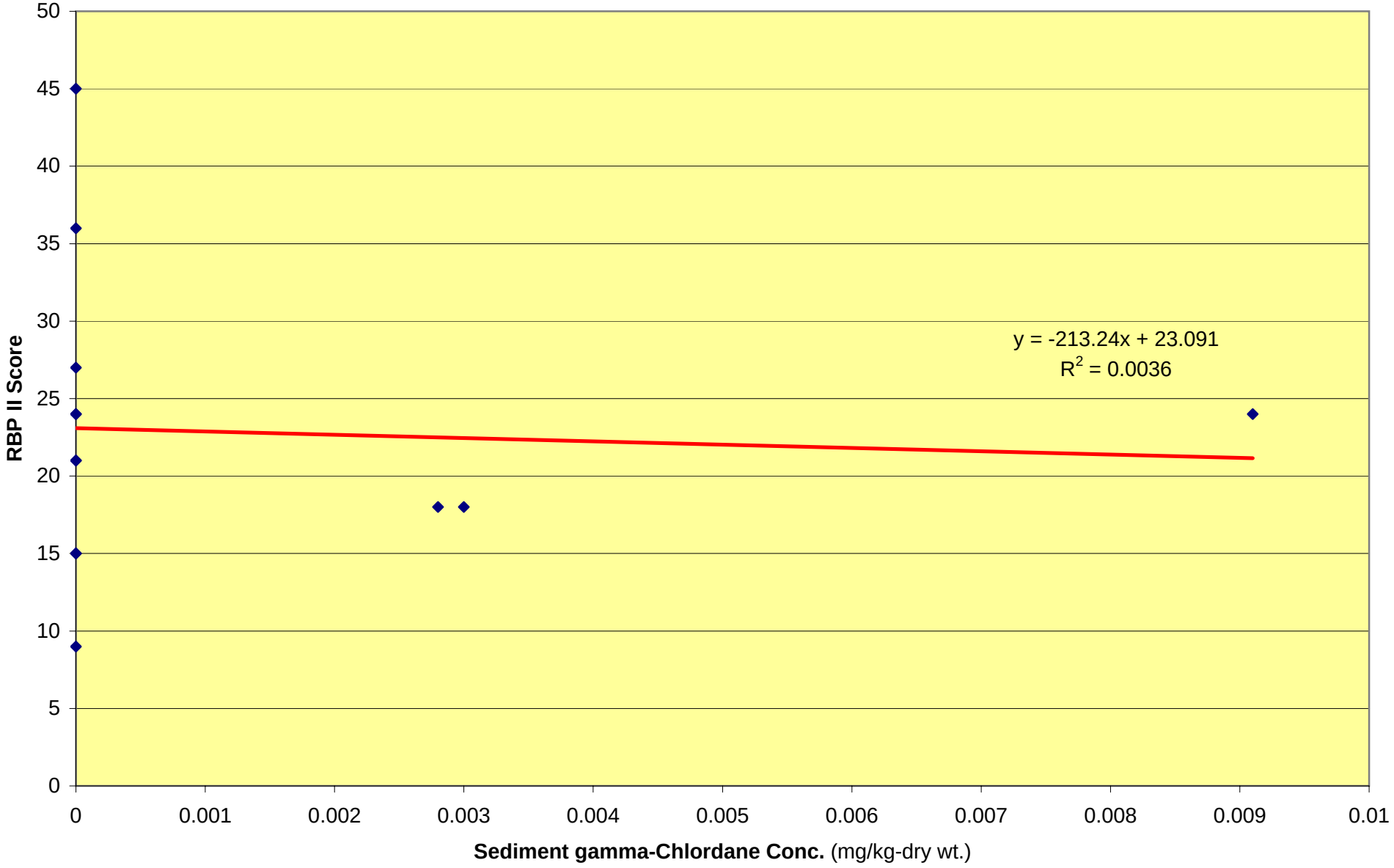
Figures 6-29, 30, 31_BBGR RBP and COPEC graphs.xls Figure 6-29 (8/3/2007)

Figure 6-30
Lead Concentrations and RBP II Scores
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



Figures 6-29, 30, 31_BBGR RBP and COPEC graphs.xls Figure 6-30 (8/3/2007)

Figure 6-31
Gamma-Chlordane Concentrations and RBP II Scores
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama



Figures 6-29, 30, 31_BBGR RBP and COPEC graphs.xls Figure 6-31 (8/3/2007)

Figure 6-32
Habitat Assessment Scores and RBP II Scores
Baby Bains Gap Road Ranges BERA
Fort McClellan, Calhoun County, Alabama

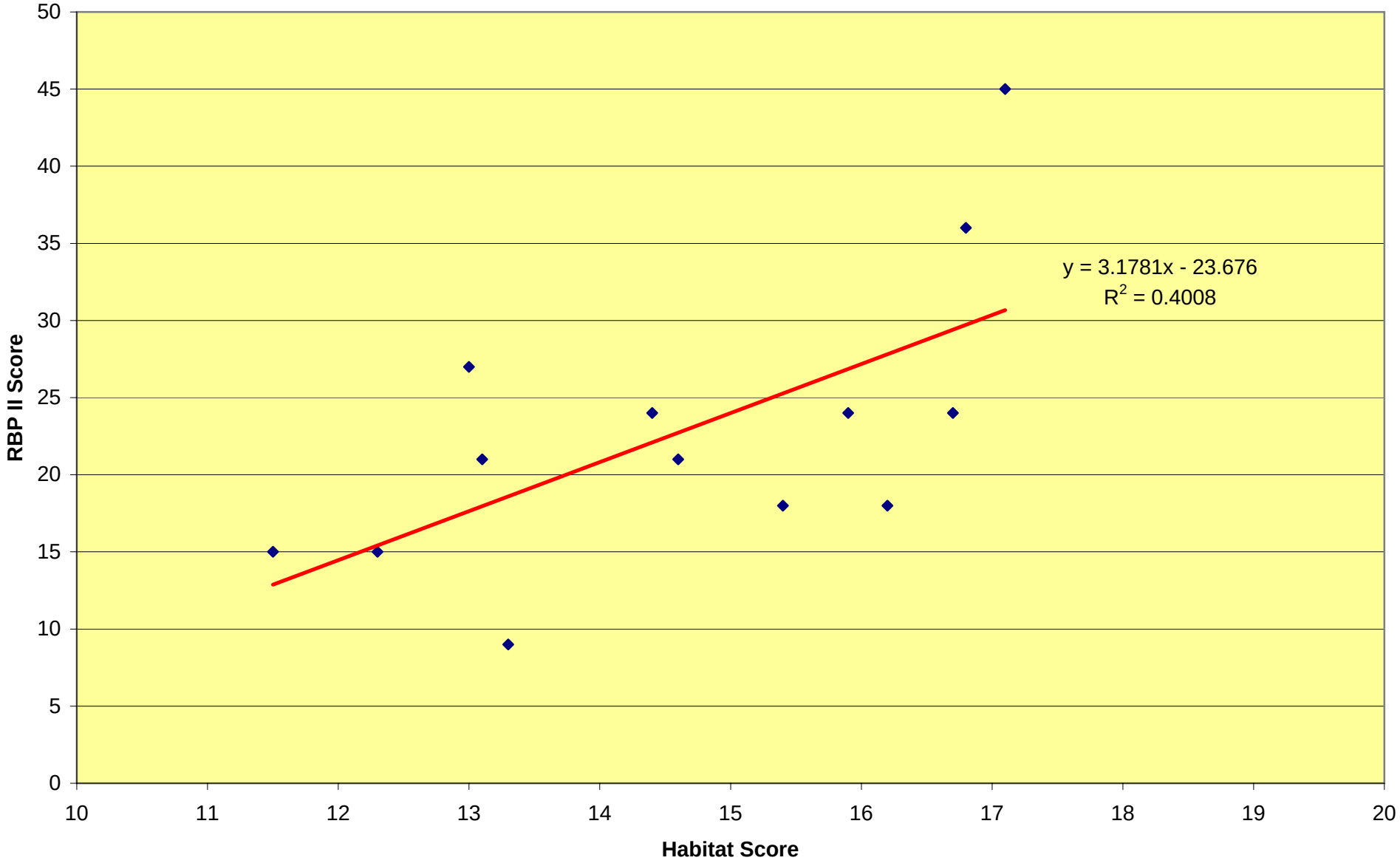


Figure 6-32_BBGR RBP and habitat graph.xls Figure 6-32 (8/3/2007)