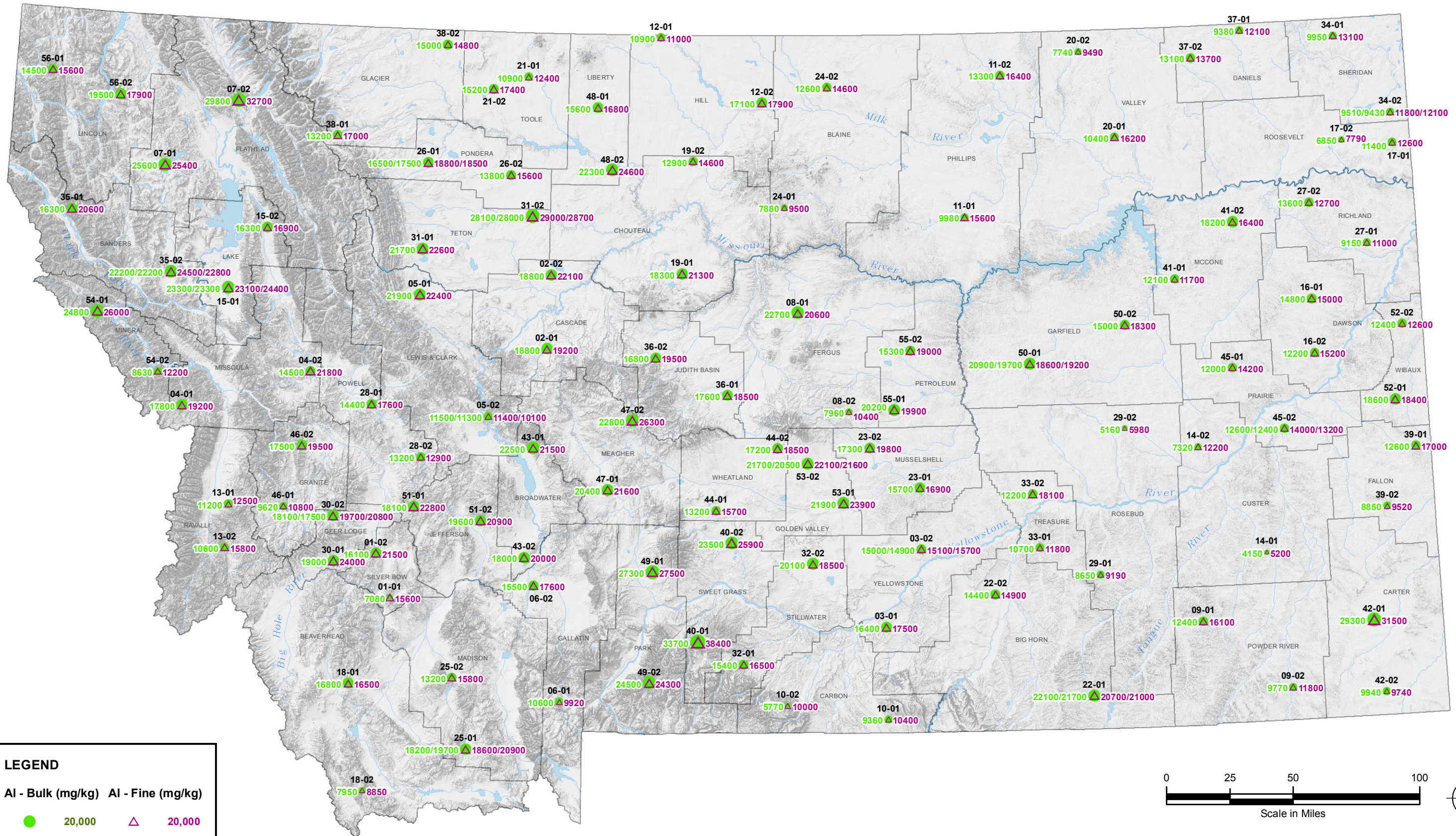


APPENDIX C

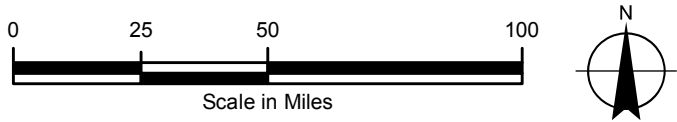
**SPATIAL DISTRIBUTION OF BACKGROUND
SOIL INORGANIC CONCENTRATIONS**



LEGEND

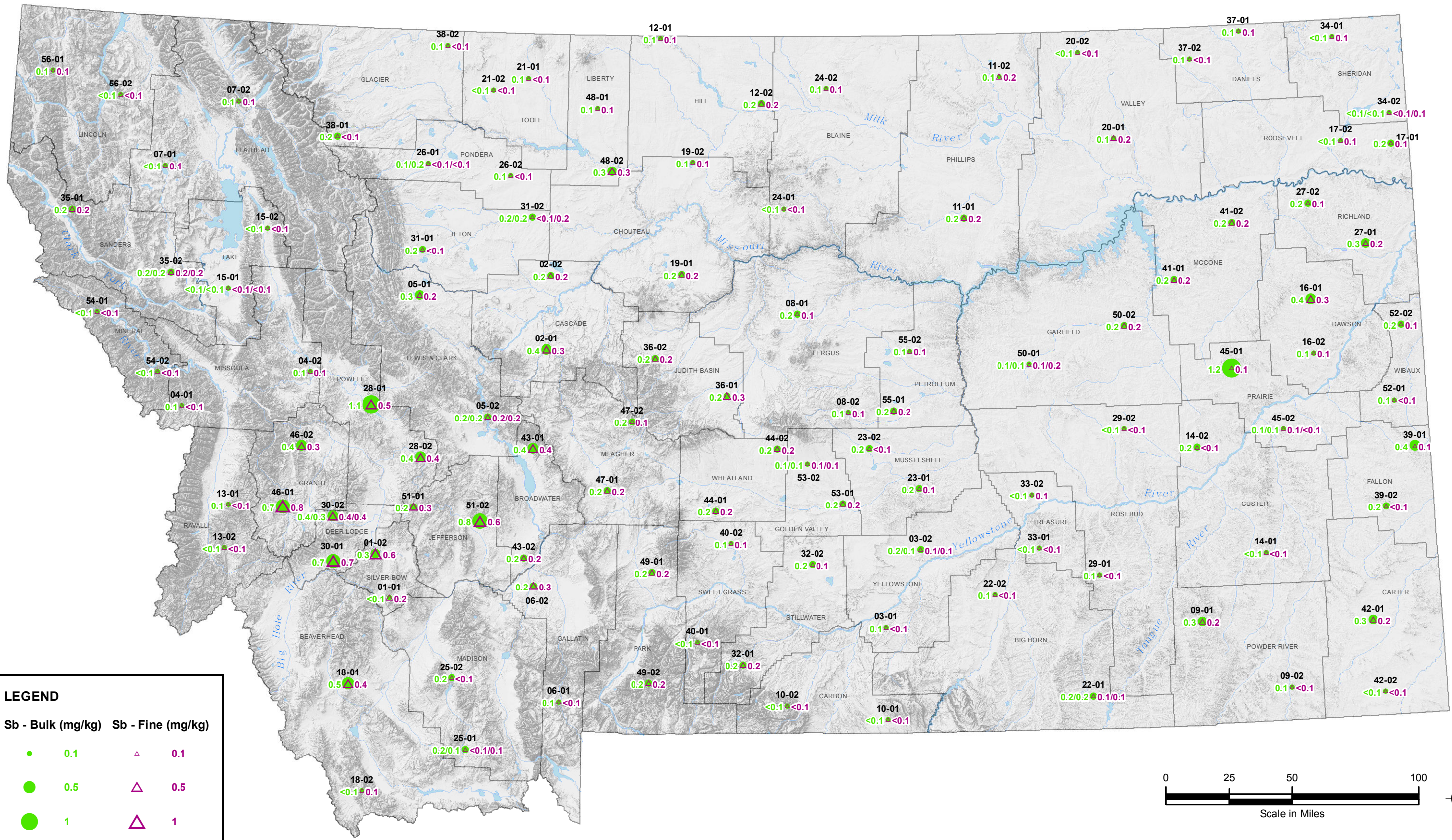
AI - Bulk (mg/kg) AI - Fine (mg/kg)

● 20,000 ▲ 20,000



NOTE: Values separated by / represent sample/field duplicate pair results.

BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS	ALUMINUM CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES	FIGURE C-1
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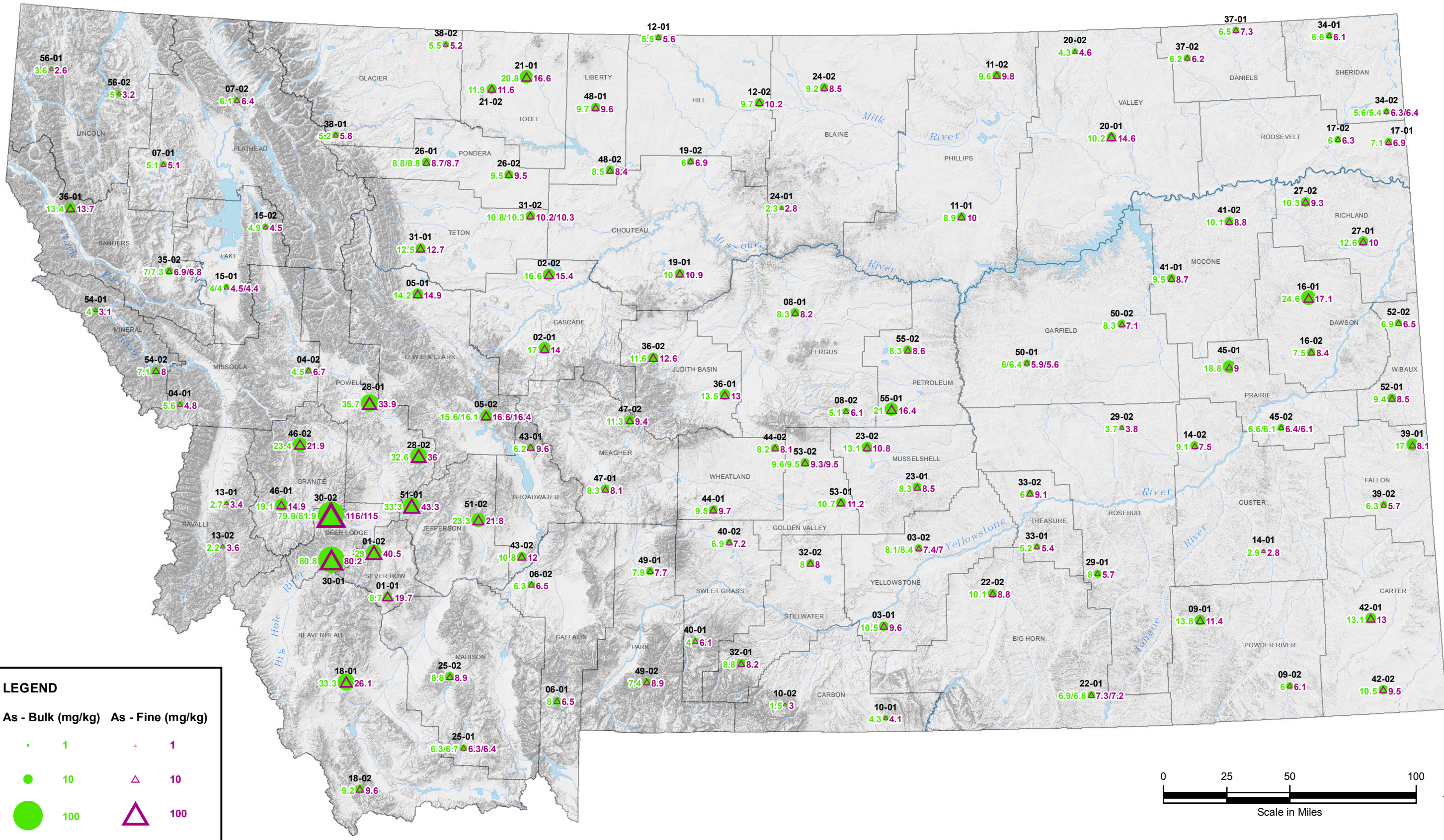
LEGEND

Sb - Bulk (mg/kg)		Sb - Fine (mg/kg)	
	0.1		0.1
	0.5		0.5
	1		1

NOTE: Values separated by / represent sample/field duplicate pair results.



BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS	ANTIMONY CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES	FIGURE C-2
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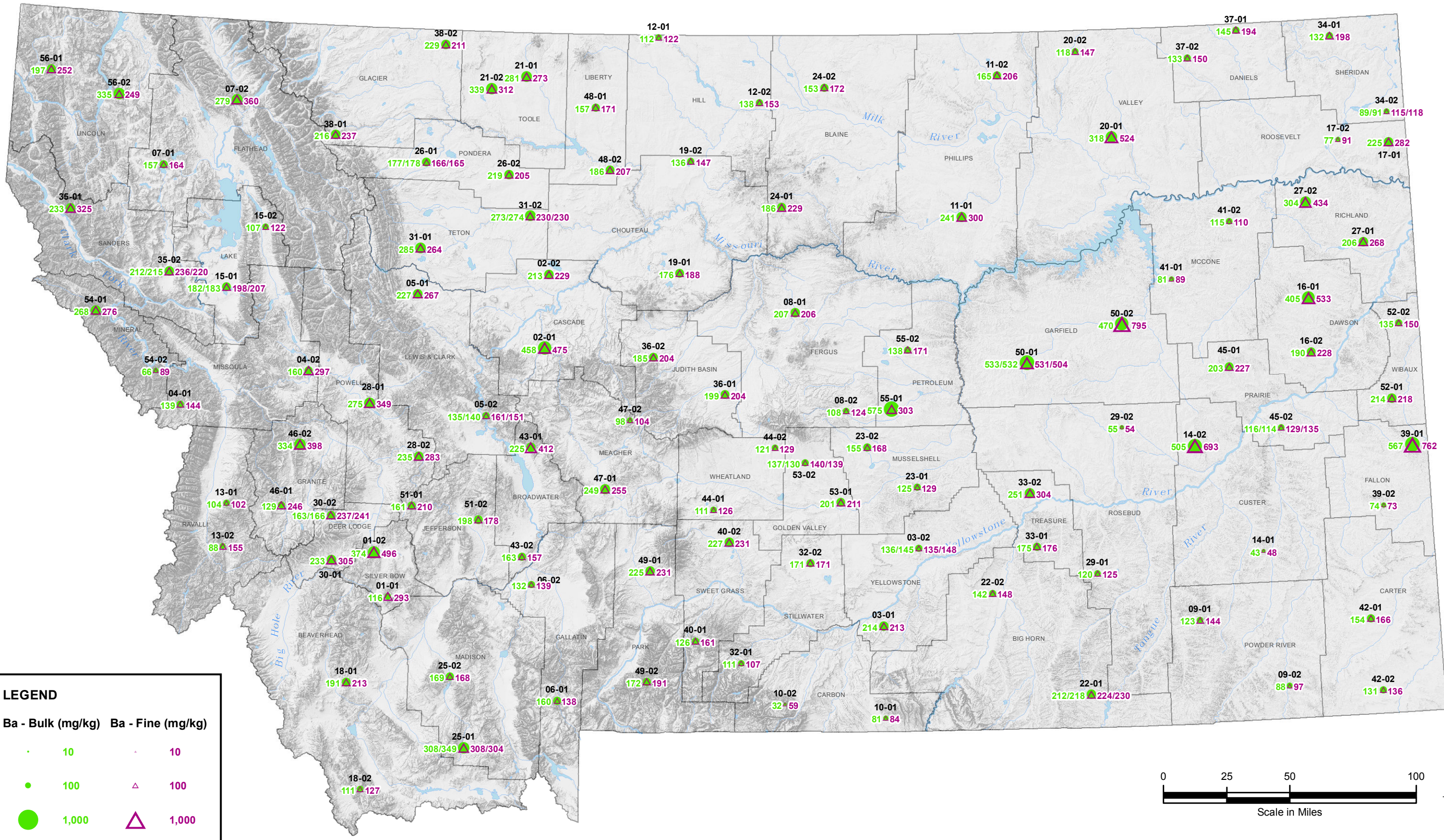


LEGEND

As - Bulk (mg/kg)		As - Fine (mg/kg)	
•	1	△	1
●	10	△	10
●	100	△	100

NOTE: Values separated by / represent sample/field duplicate pair results.

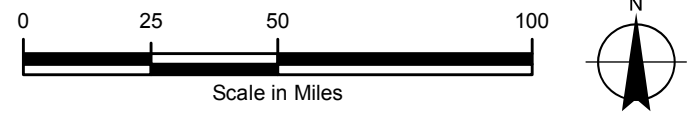
<p>BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS</p>	<p>ARSENIC CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES</p>
<p>FIGURE C-3</p>	



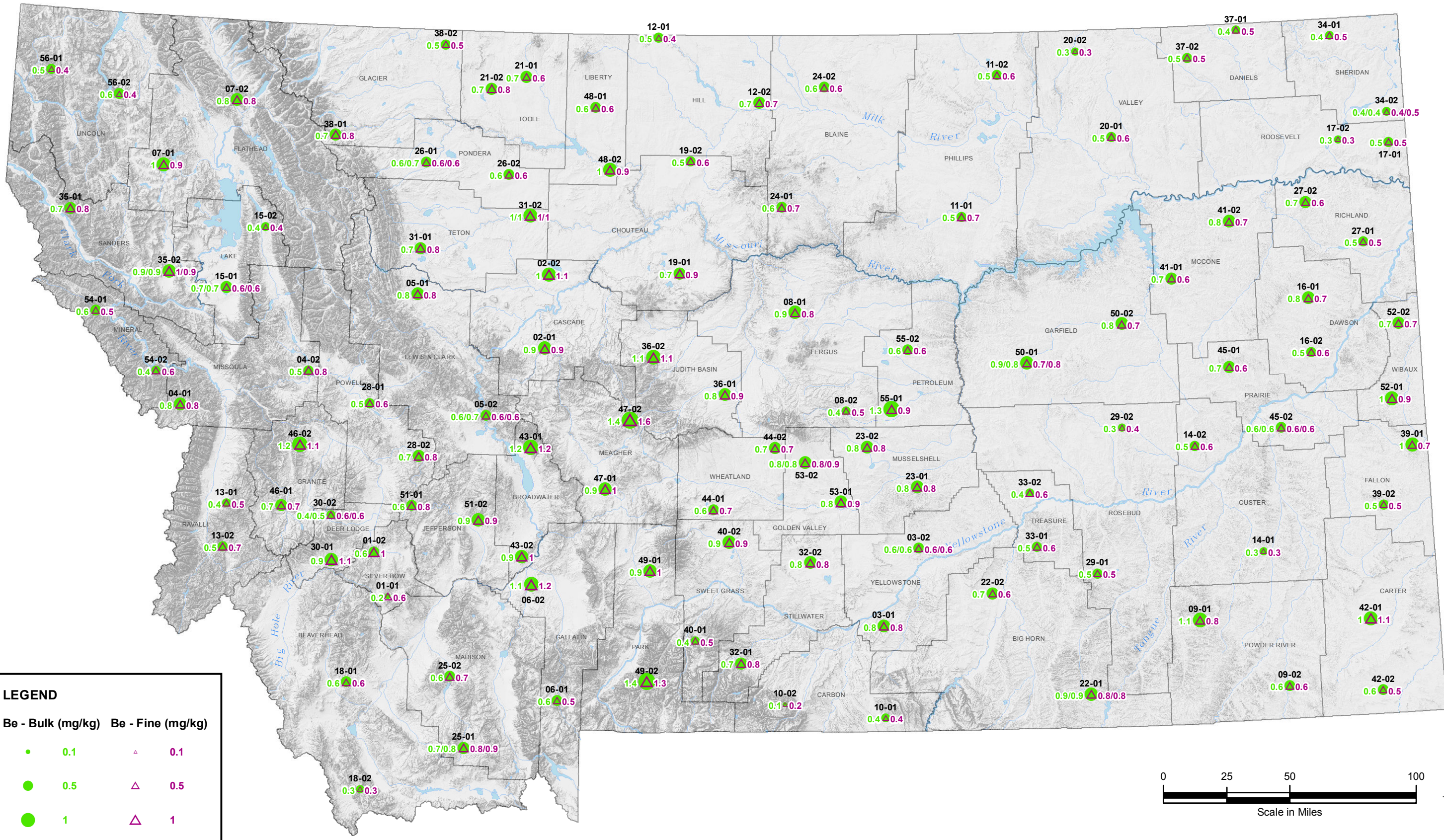
LEGEND

Ba - Bulk (mg/kg)		Ba - Fine (mg/kg)	
●	10	●	10
●	100	▲	100
●	1,000	▲	1,000

NOTE: Values separated by / represent sample/field duplicate pair results.



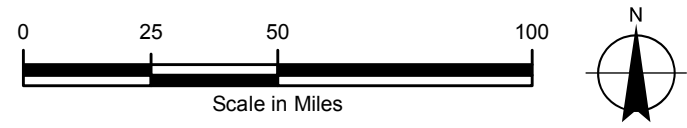
BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS	BARIUM CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES	FIGURE C-4
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LEGEND

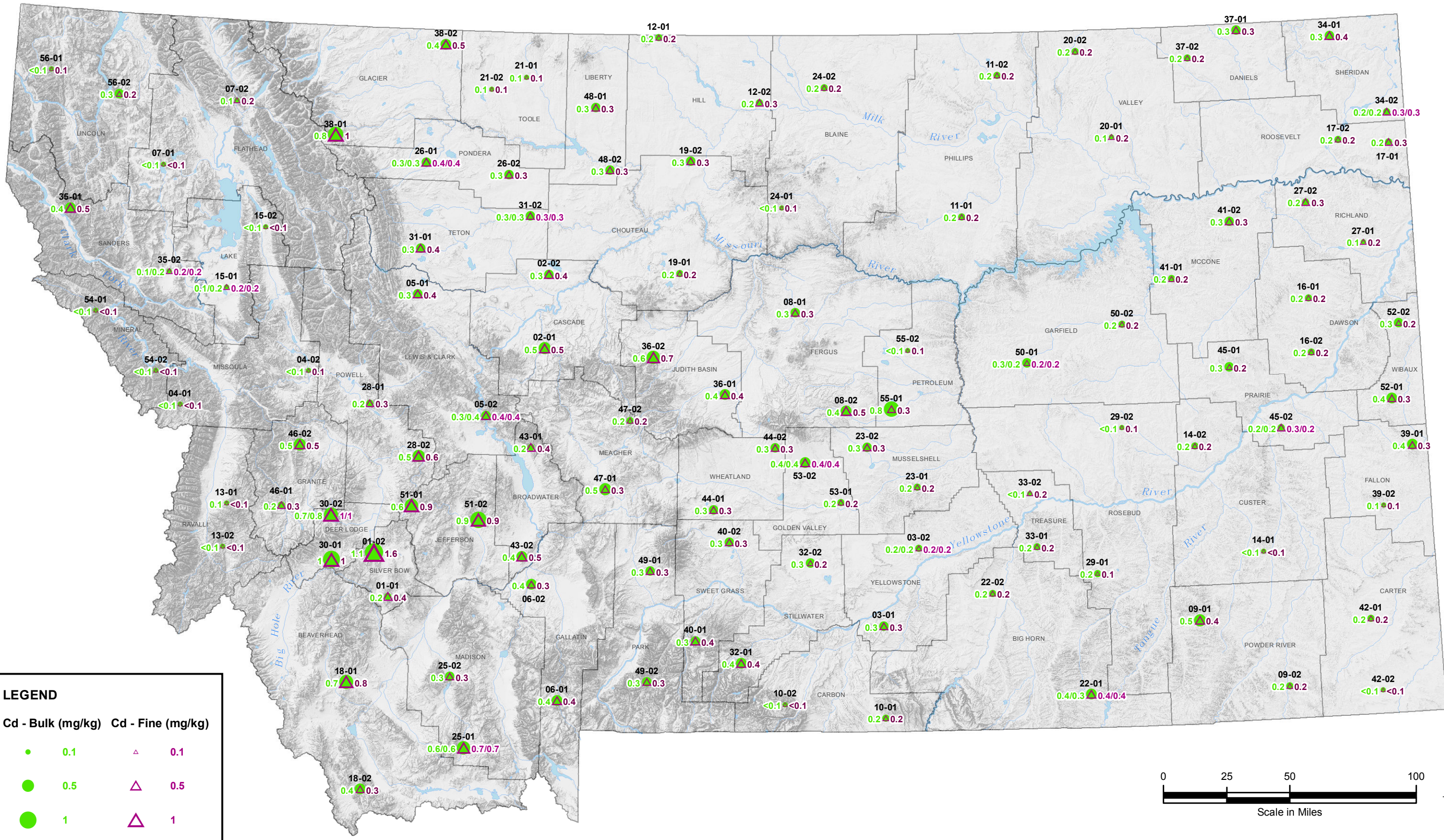
Be - Bulk (mg/kg) Be - Fine (mg/kg)

● 0.1	▲ 0.1
● 0.5	▲ 0.5
● 1	▲ 1



NOTE: Values separated by / represent sample/field duplicate pair results.

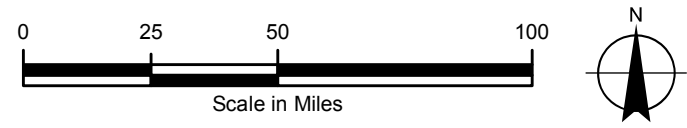
BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS	BERYLLIUM CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES	FIGURE C-5
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LEGEND

Cd - Bulk (mg/kg)		Cd - Fine (mg/kg)	
●	0.1	▲	0.1
●	0.5	▲	0.5
●	1	▲	1

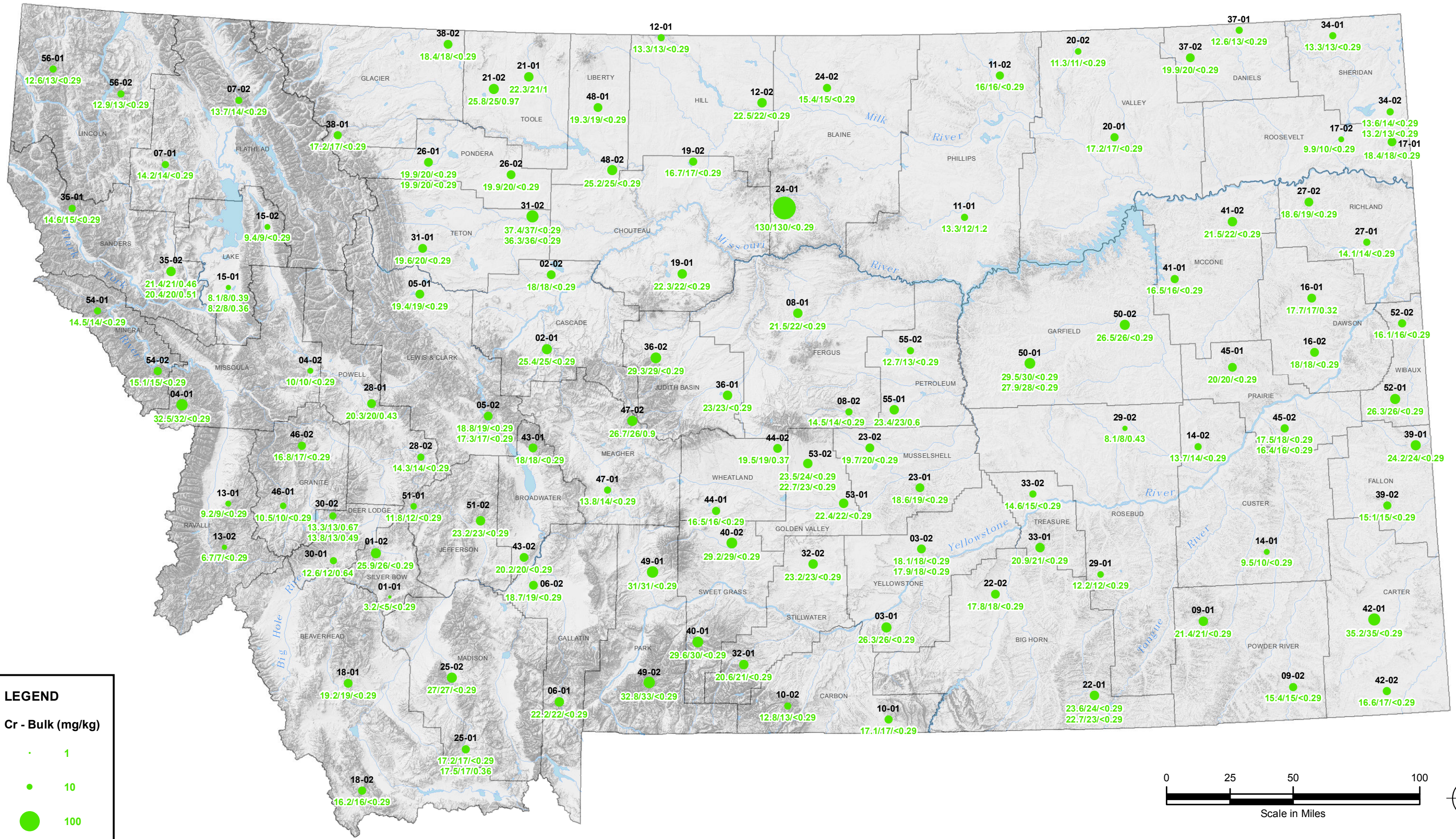
NOTE: Values separated by / represent sample/field duplicate pair results.



BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS

CADMIUM CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES

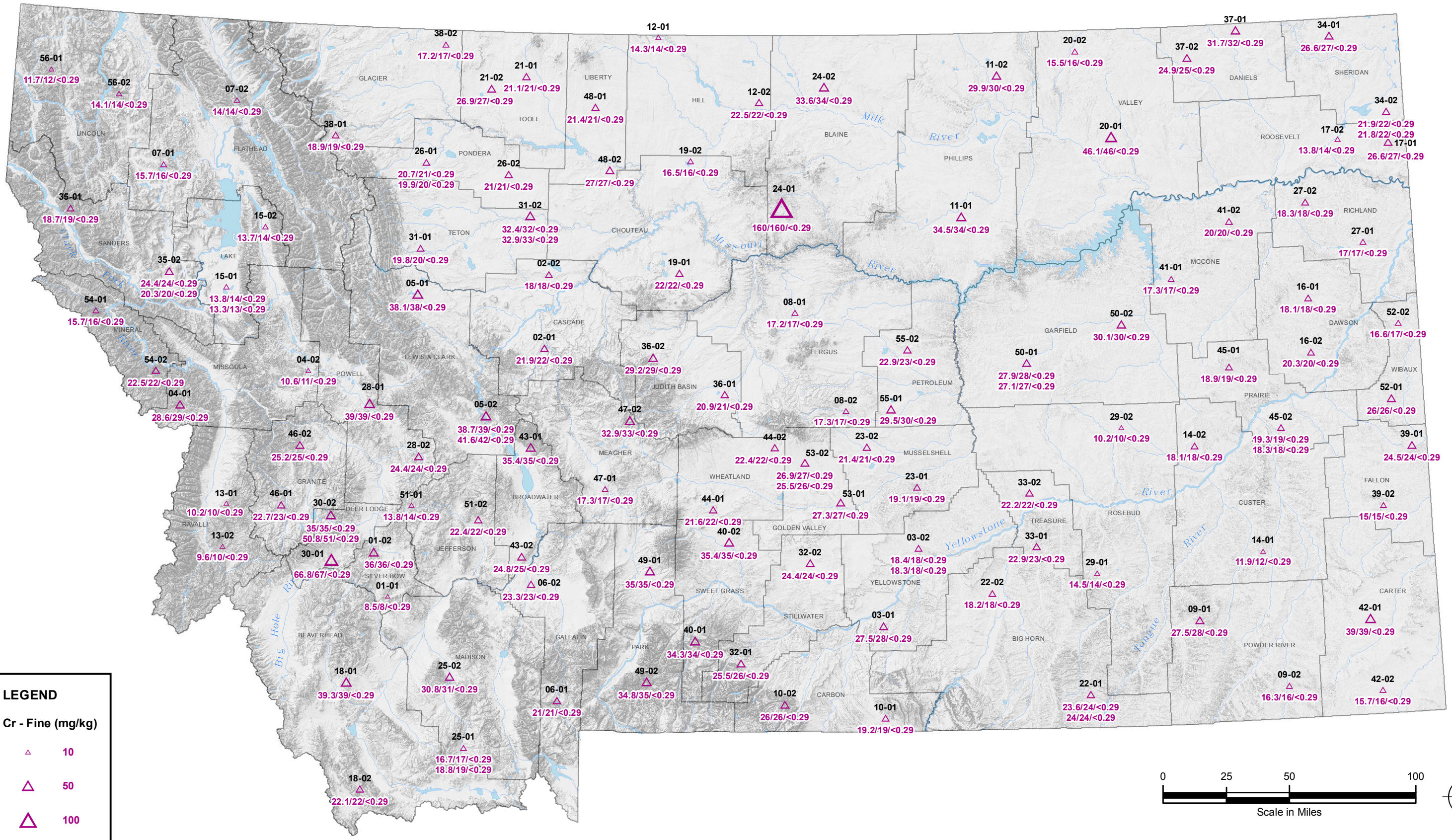
FIGURE C-6



**BACKGROUND CONCENTRATIONS OF
INORGANIC CONSTITUENTS IN
MONTANA SURFACE SOILS**

**CHROMIUM CONCENTRATIONS (mg/kg)
(Total Cr, Cr (III), Cr (VI))
BULK SAMPLES**

**FIGURE
C-7**

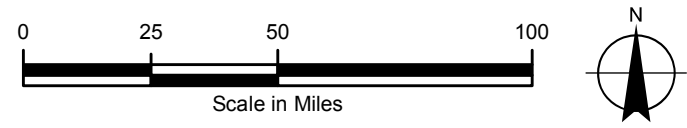


LEGEND

Cr - Fine (mg/kg)

△	10
△	50
△	100

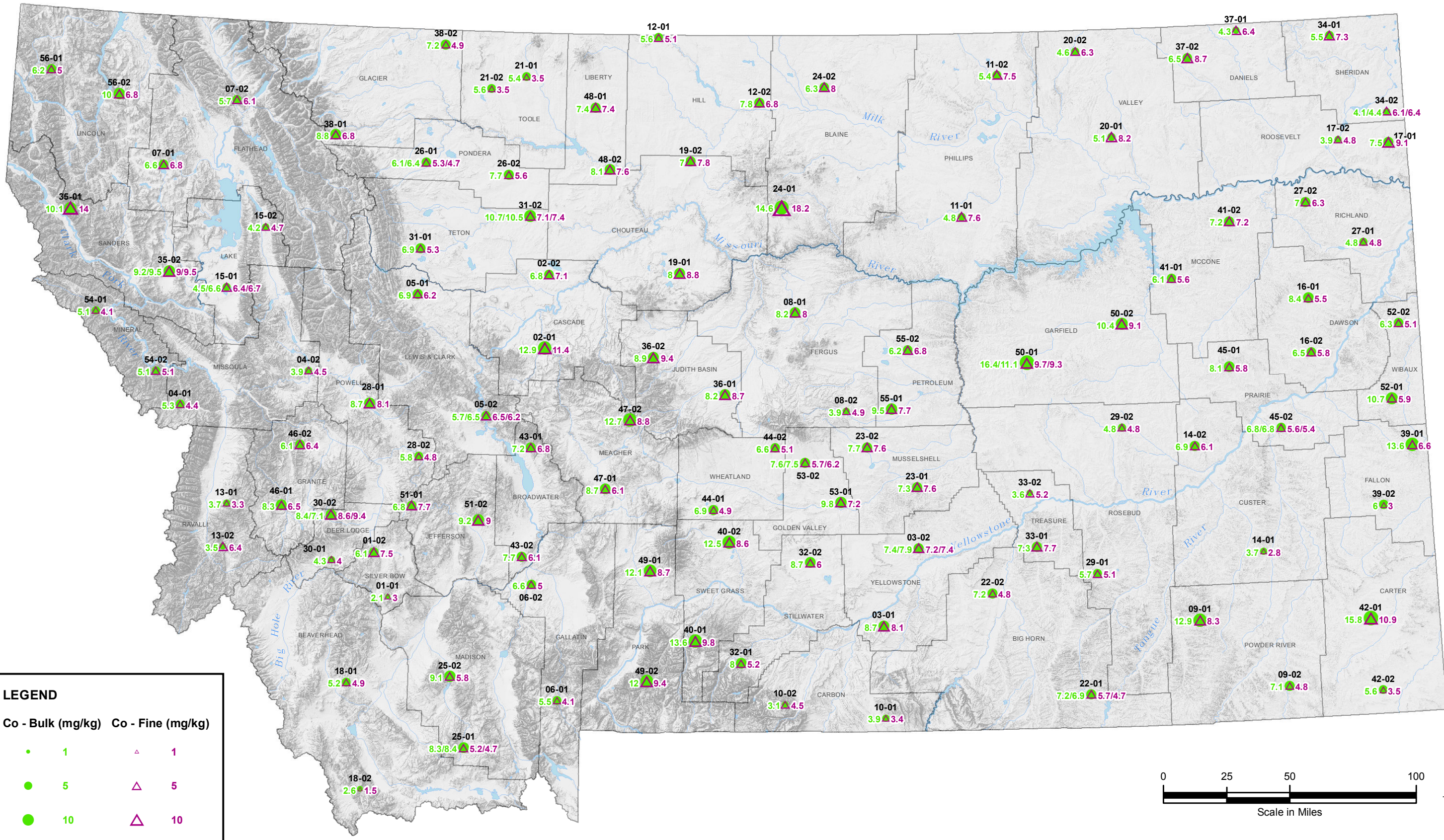
NOTE: Results shown as Total Cr / Cr (III) / Cr (VI).
 Field duplicate results shown on second line.
 Symbol sizes proportional to Total Cr result.



**BACKGROUND CONCENTRATIONS OF
 INORGANIC CONSTITUENTS IN
 MONTANA SURFACE SOILS**

**CHROMIUM CONCENTRATIONS (mg/kg)
 (Total Cr, Cr (III), Cr (VI))
 FINE FRACTION SAMPLES**

**FIGURE
 C-8**



LEGEND

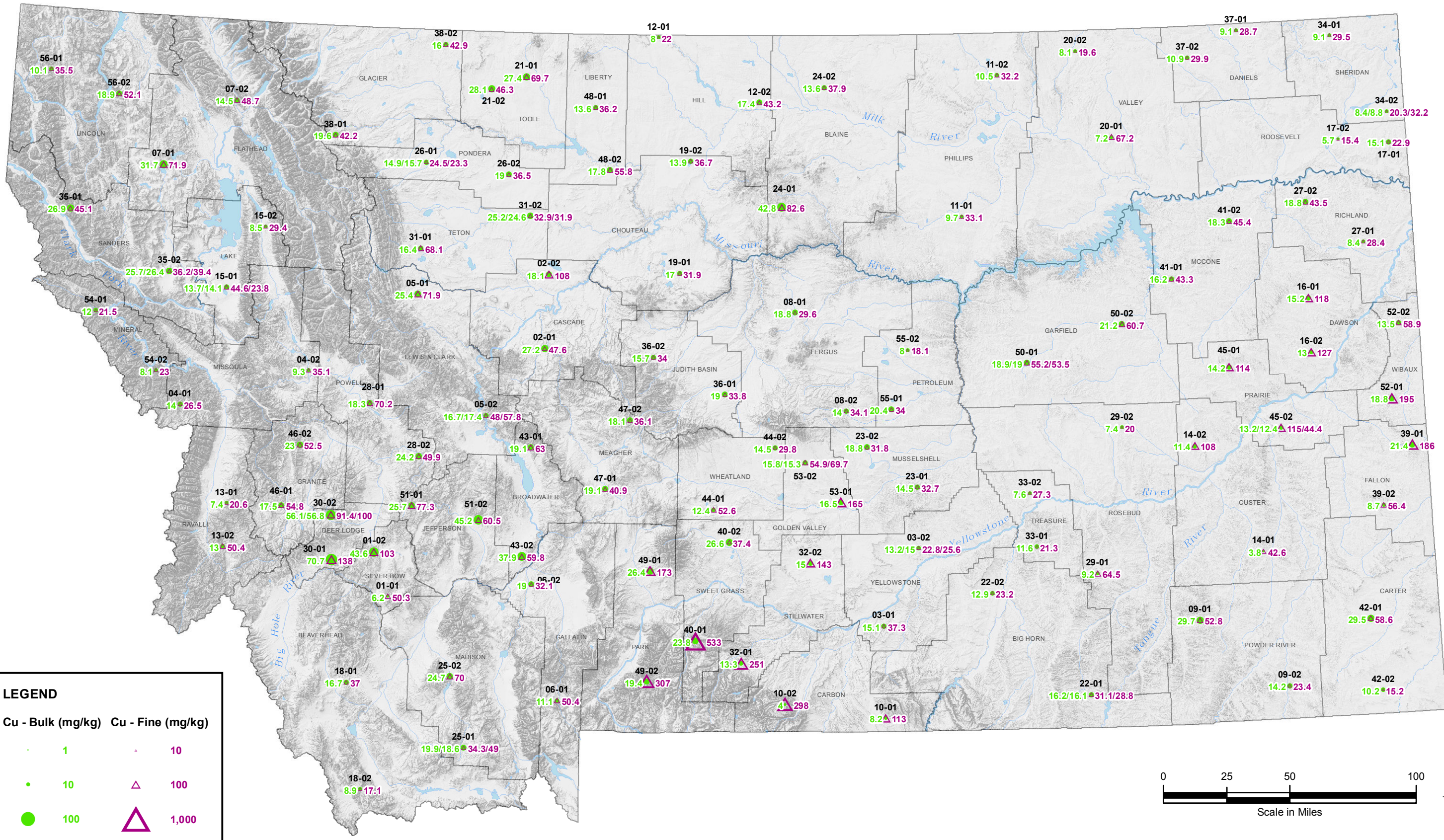
Co - Bulk (mg/kg)	Co - Fine (mg/kg)
● 1	▲ 1
● 5	▲ 5
● 10	▲ 10

NOTE: Values separated by / represent sample/field duplicate pair results.

BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS

COBALT CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES

FIGURE C-9



LEGEND

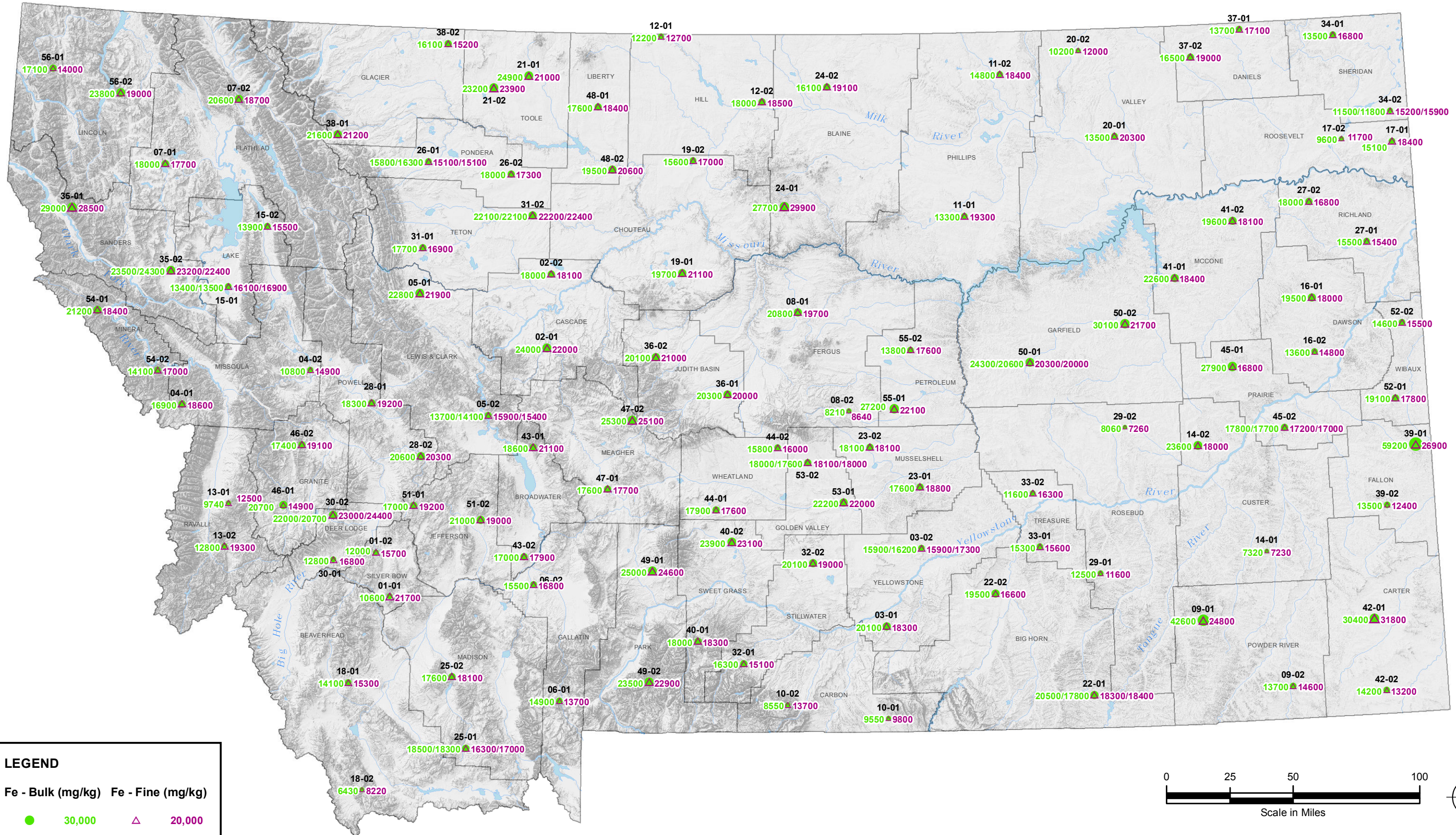
Cu - Bulk (mg/kg)		Cu - Fine (mg/kg)	
●	1	●	10
●	10	△	100
●	100	△	1,000

NOTE: Values separated by / represent sample/field duplicate pair results.

BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS

COPPER CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES

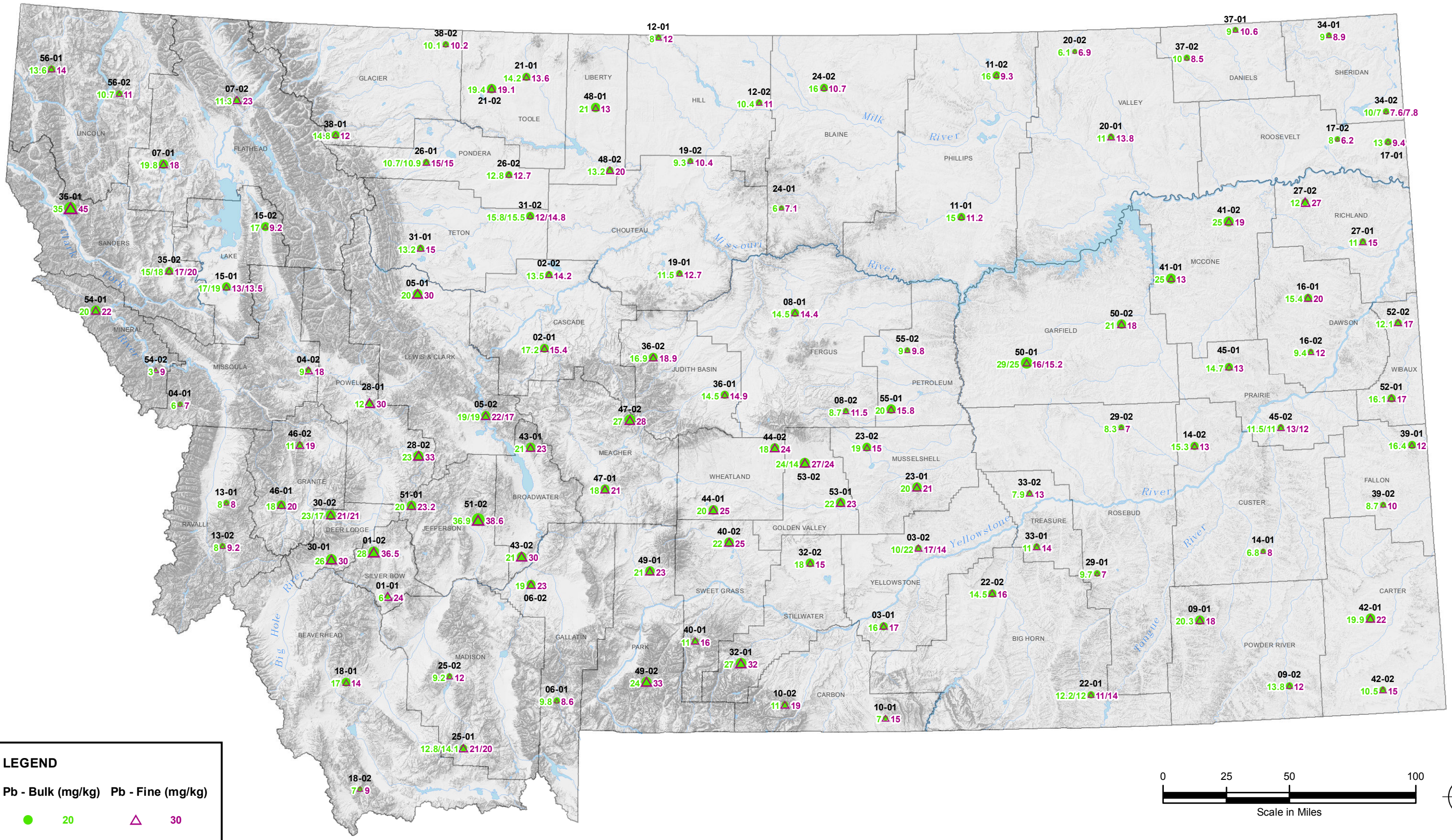
FIGURE C-10



**BACKGROUND CONCENTRATIONS OF
 INORGANIC CONSTITUENTS IN
 MONTANA SURFACE SOILS**

**IRON CONCENTRATIONS (mg/kg)
 BULK AND FINE FRACTION SAMPLES**

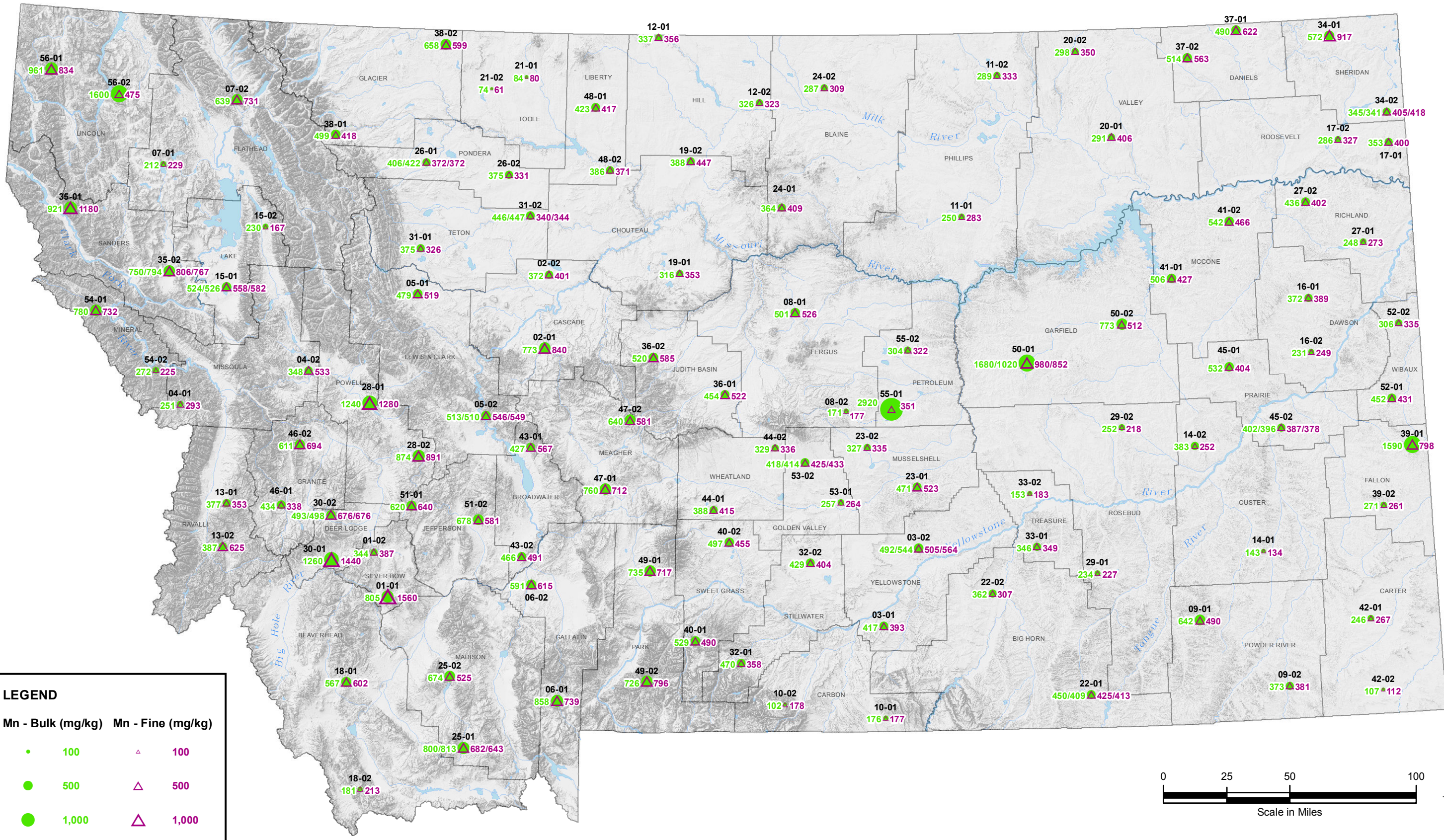
**FIGURE
 C-11**



BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS

LEAD CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES

FIGURE C-12

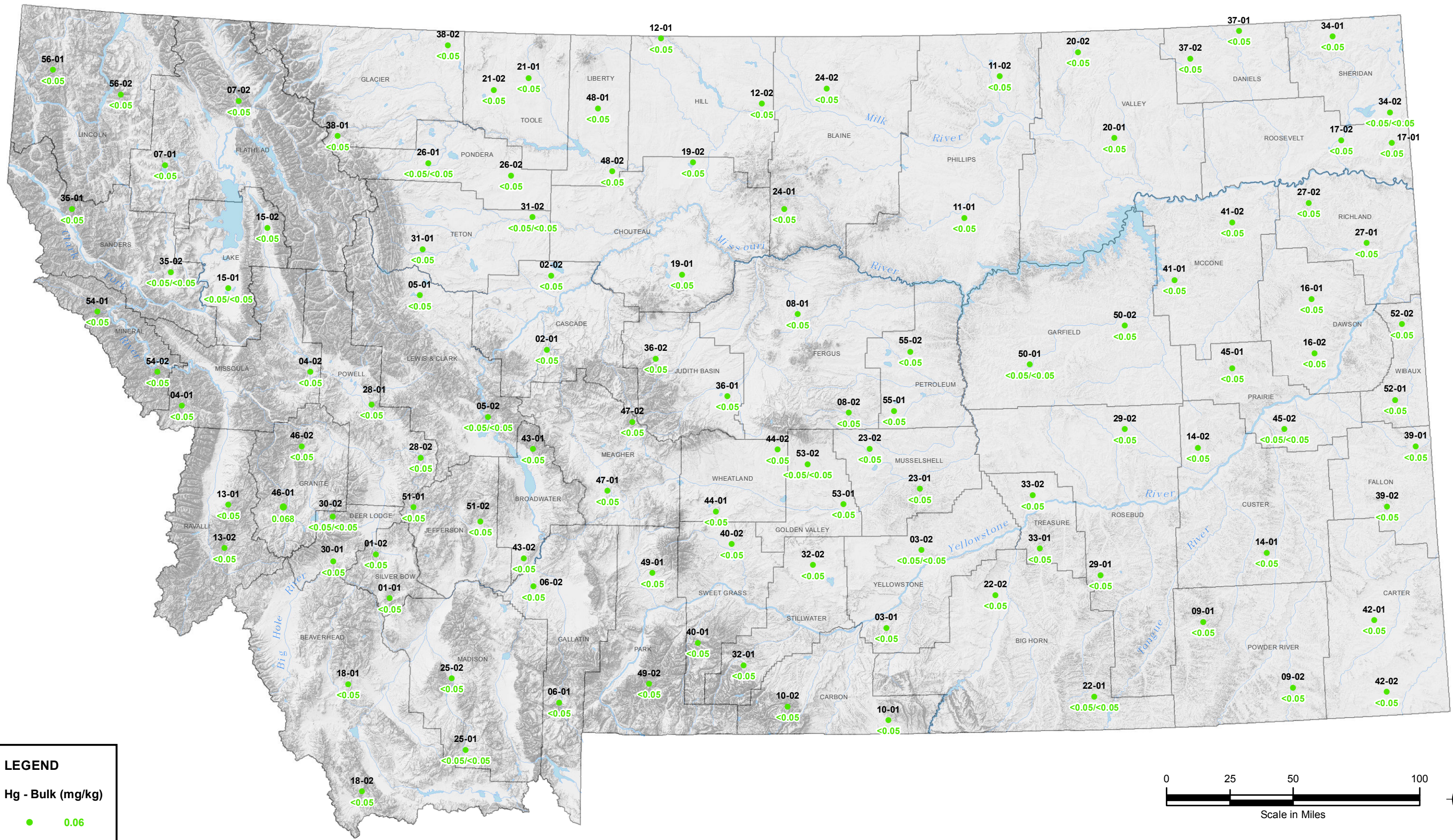


LEGEND

Mn - Bulk (mg/kg)	Mn - Fine (mg/kg)
● 100	▲ 100
● 500	▲ 500
● 1,000	▲ 1,000

NOTE: Values separated by / represent sample/field duplicate pair results.

BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS	MANGANESE CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES	FIGURE
	C-13	



LEGEND

Hg - Bulk (mg/kg)

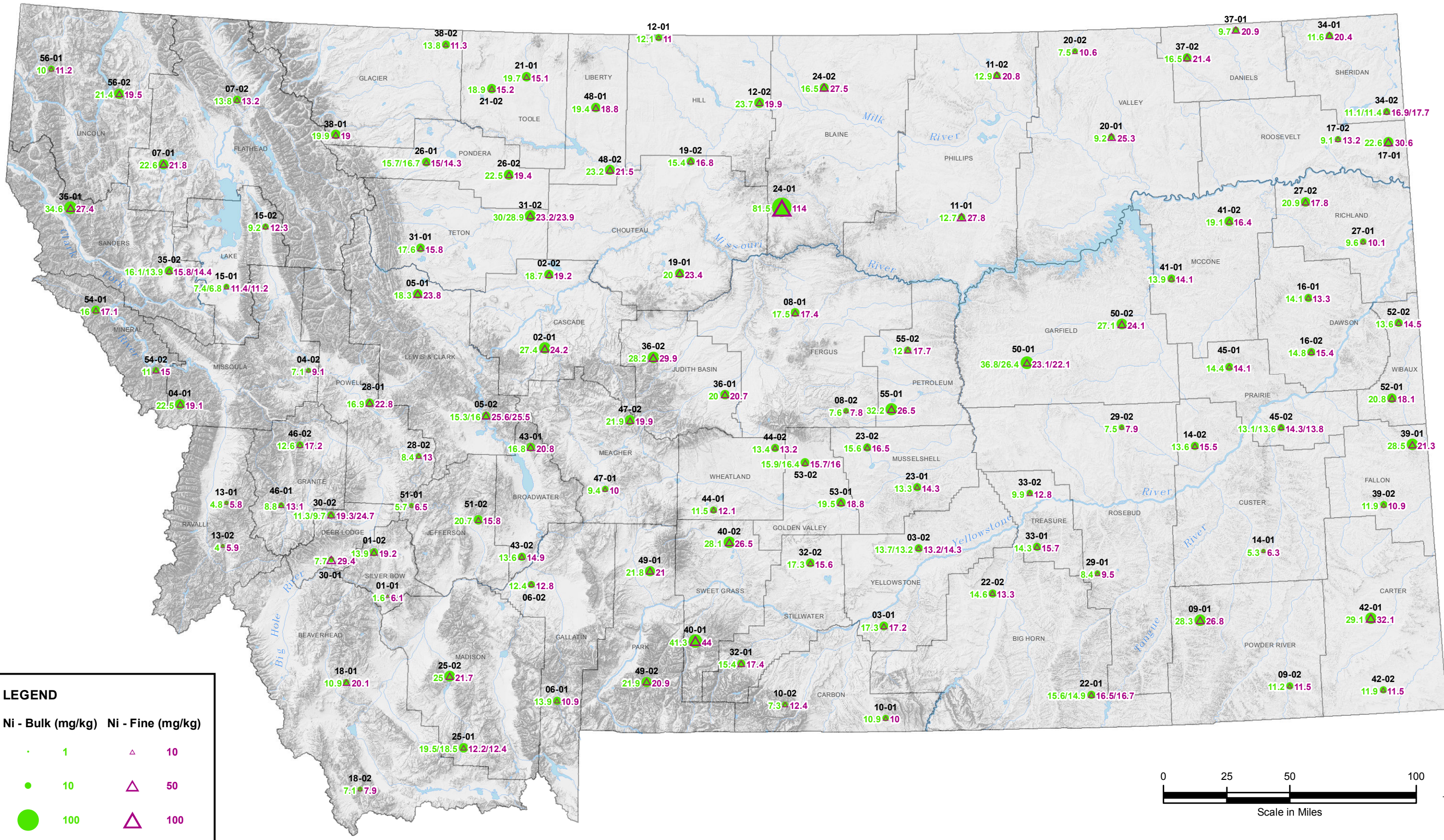
● 0.06

NOTE: Values separated by / represent sample/field duplicate pair results.

**BACKGROUND CONCENTRATIONS OF
INORGANIC CONSTITUENTS IN
MONTANA SURFACE SOILS**

**MERCURY CONCENTRATIONS (mg/kg)
BULK SAMPLES**

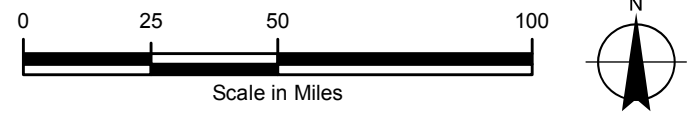
**FIGURE
C-14**



LEGEND

Ni - Bulk (mg/kg)		Ni - Fine (mg/kg)	
● (smallest)	1	△ (smallest)	10
● (medium)	10	△ (medium)	50
● (largest)	100	△ (largest)	100

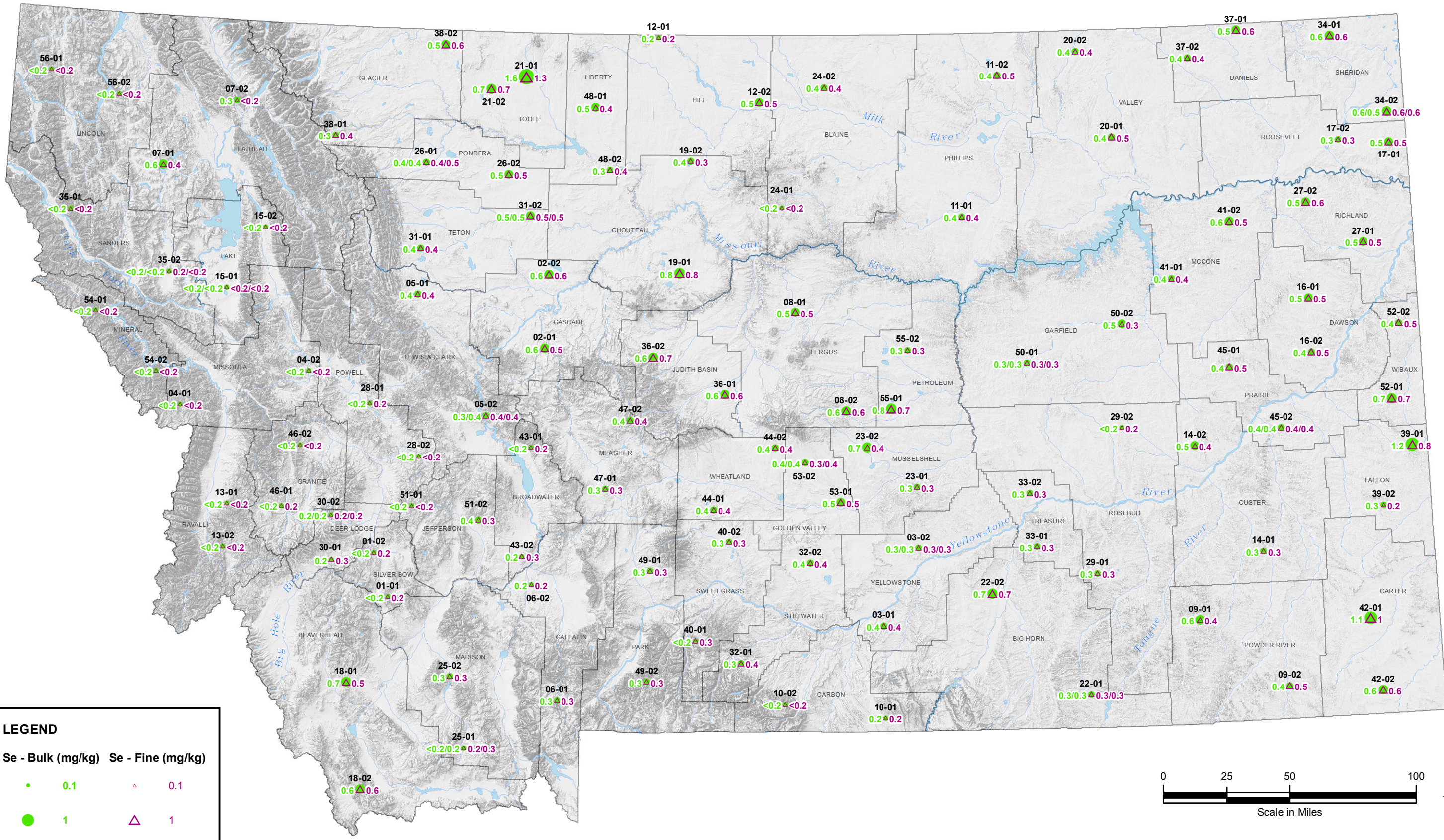
NOTE: Values separated by / represent sample/field duplicate pair results.



BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS

NICKEL CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES

FIGURE C-15

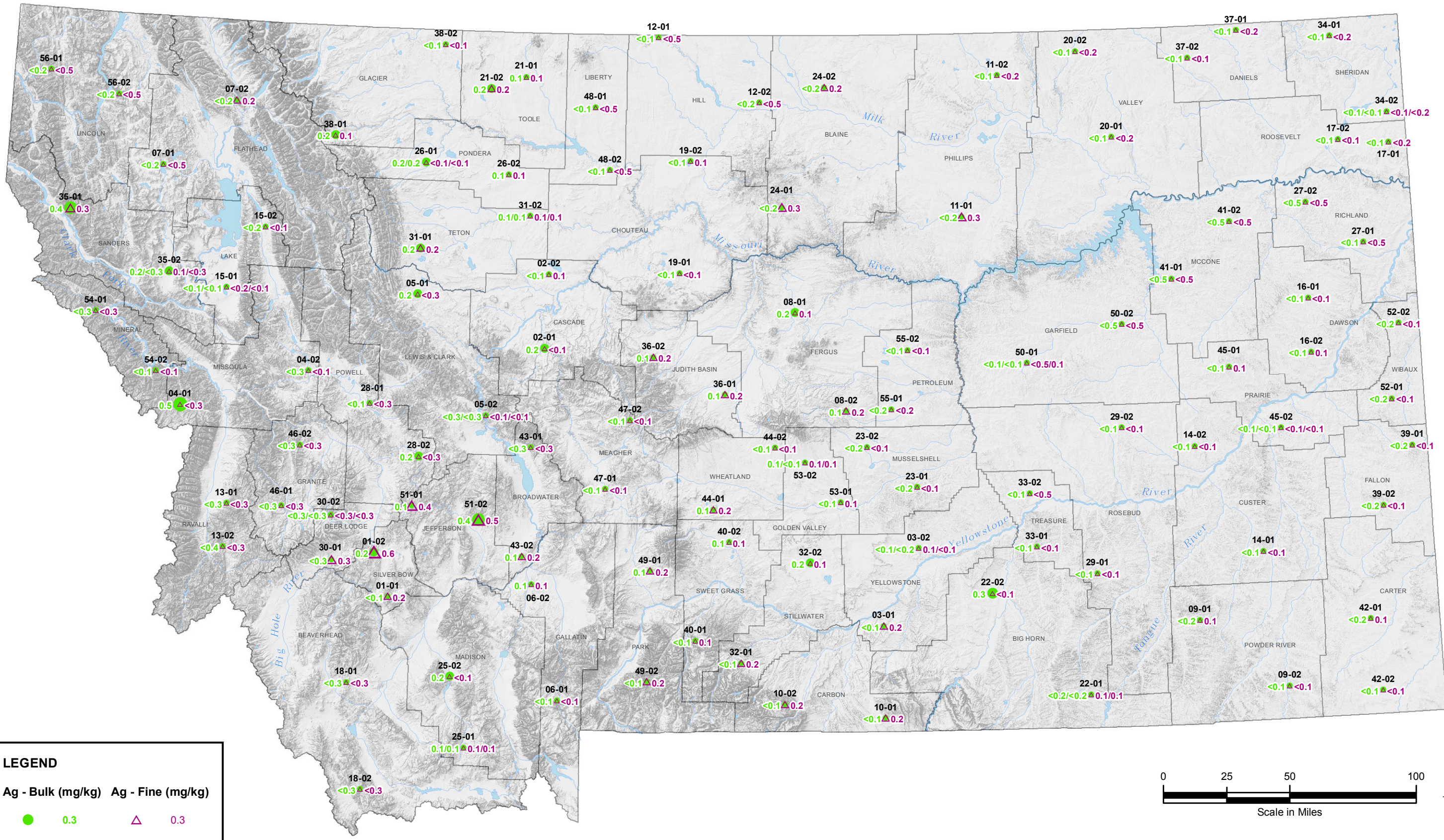


LEGEND

Se - Bulk (mg/kg)	Se - Fine (mg/kg)
● 0.1	▲ 0.1
● 1	▲ 1

NOTE: Values separated by / represent sample/field duplicate pair results.

BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS	SELENIUM CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES	FIGURE
	C-16	



LEGEND

Ag - Bulk (mg/kg) Ag - Fine (mg/kg)

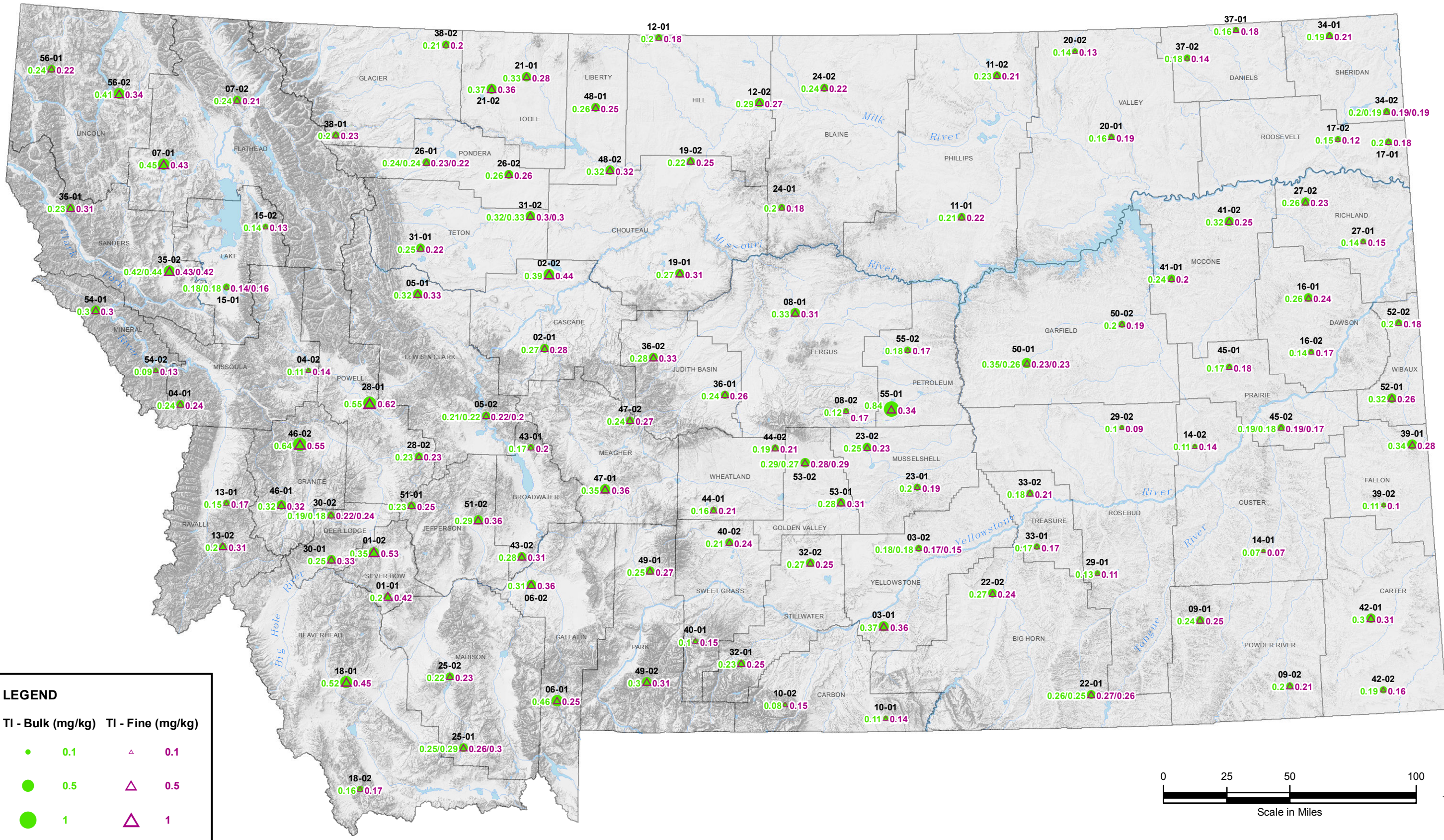
● 0.3 ▲ 0.3

NOTE: Values separated by / represent sample/field duplicate pair results.

BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS

SILVER CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES

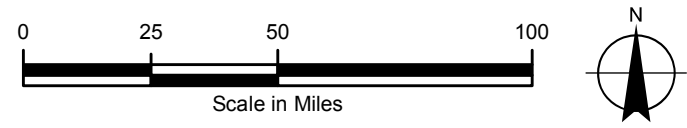
FIGURE C-17



LEGEND

TI - Bulk (mg/kg)		TI - Fine (mg/kg)	
●	0.1	▲	0.1
●	0.5	▲	0.5
●	1	▲	1

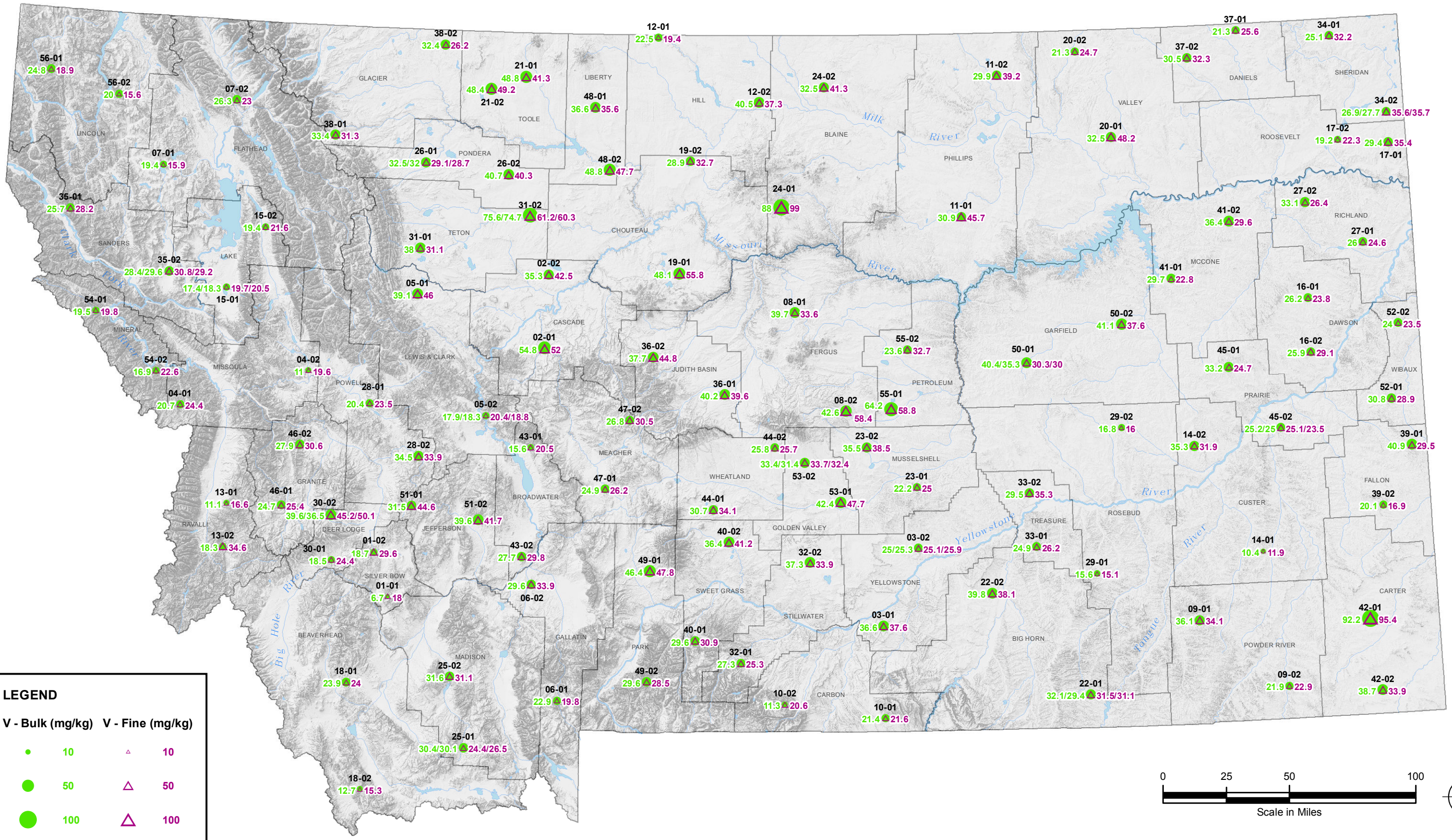
NOTE: Values separated by / represent sample/field duplicate pair results.



BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS

THALLIUM CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES

FIGURE C-18



LEGEND

V - Bulk (mg/kg) V - Fine (mg/kg)

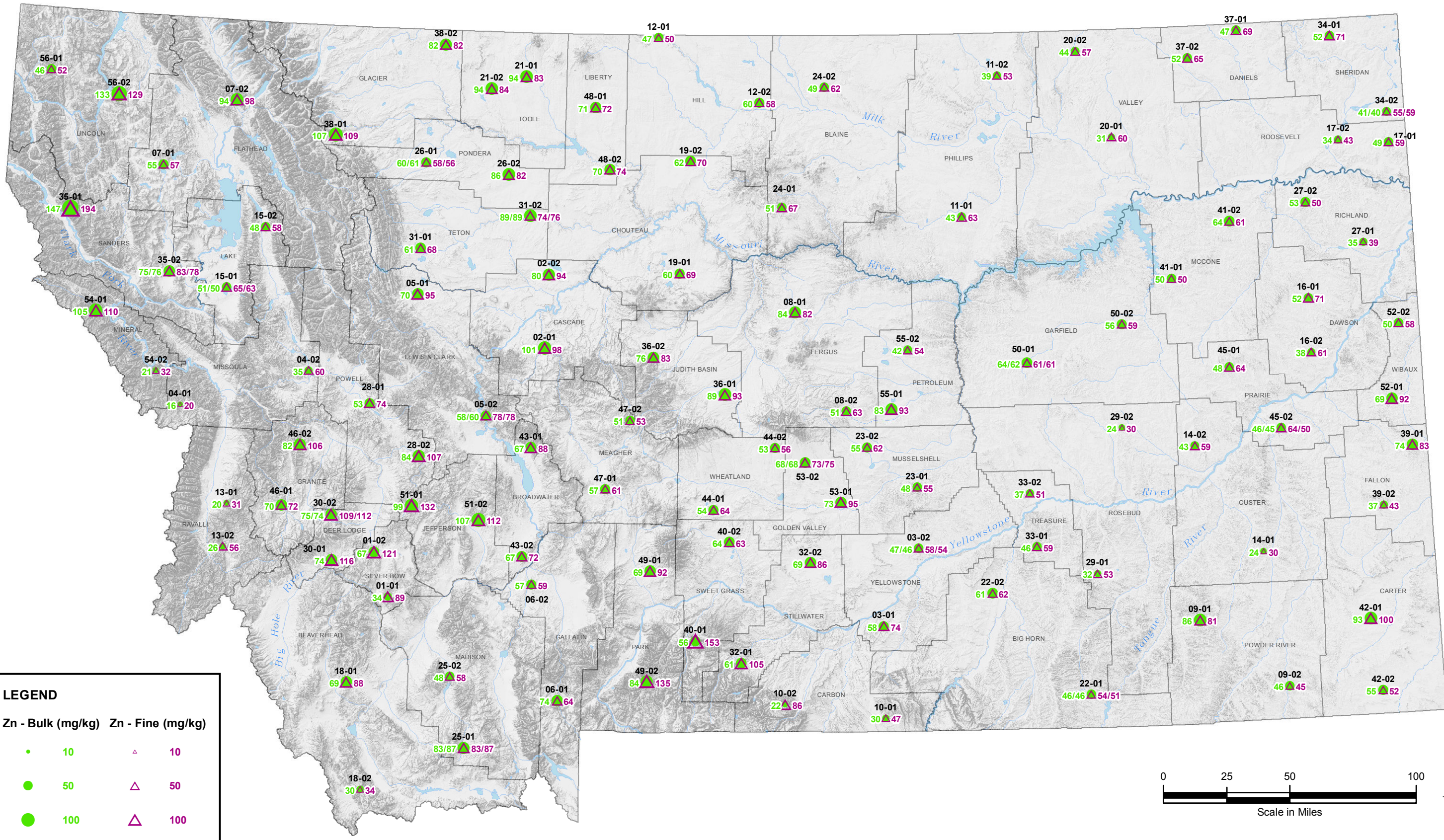
● 10	▲ 10
● 50	▲ 50
● 100	▲ 100

NOTE: Values separated by / represent sample/field duplicate pair results.

**BACKGROUND CONCENTRATIONS OF
INORGANIC CONSTITUENTS IN
MONTANA SURFACE SOILS**

**VANADIUM CONCENTRATIONS (mg/kg)
BULK AND FINE FRACTION SAMPLES**

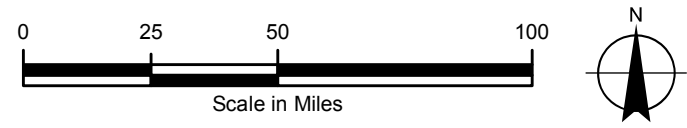
**FIGURE
C-19**



LEGEND

Zn - Bulk (mg/kg)		Zn - Fine (mg/kg)	
●	10	▲	10
●	50	▲	50
●	100	▲	100

NOTE: Values separated by / represent sample/field duplicate pair results.



BACKGROUND CONCENTRATIONS OF INORGANIC CONSTITUENTS IN MONTANA SURFACE SOILS	ZINC CONCENTRATIONS (mg/kg) BULK AND FINE FRACTION SAMPLES	FIGURE
	C-20	