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Chapter IV, Overview of Archaeology

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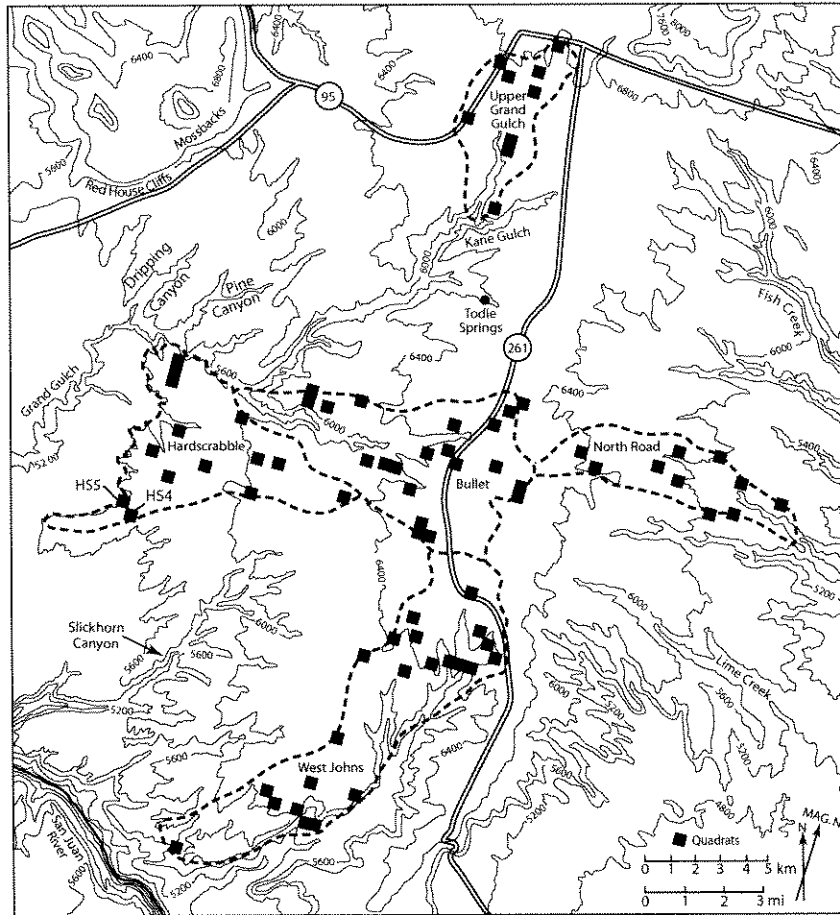


Figure IV-1

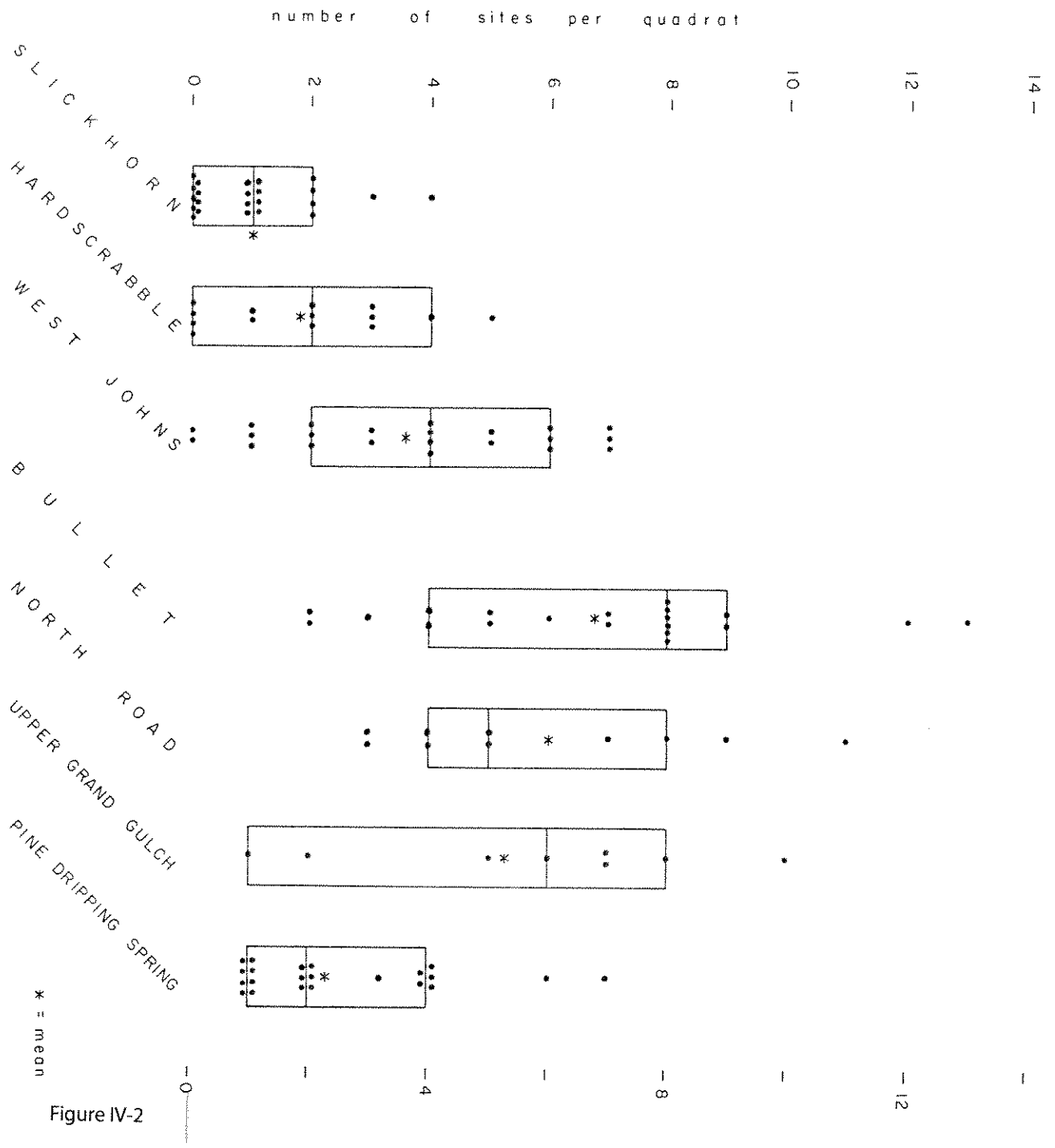


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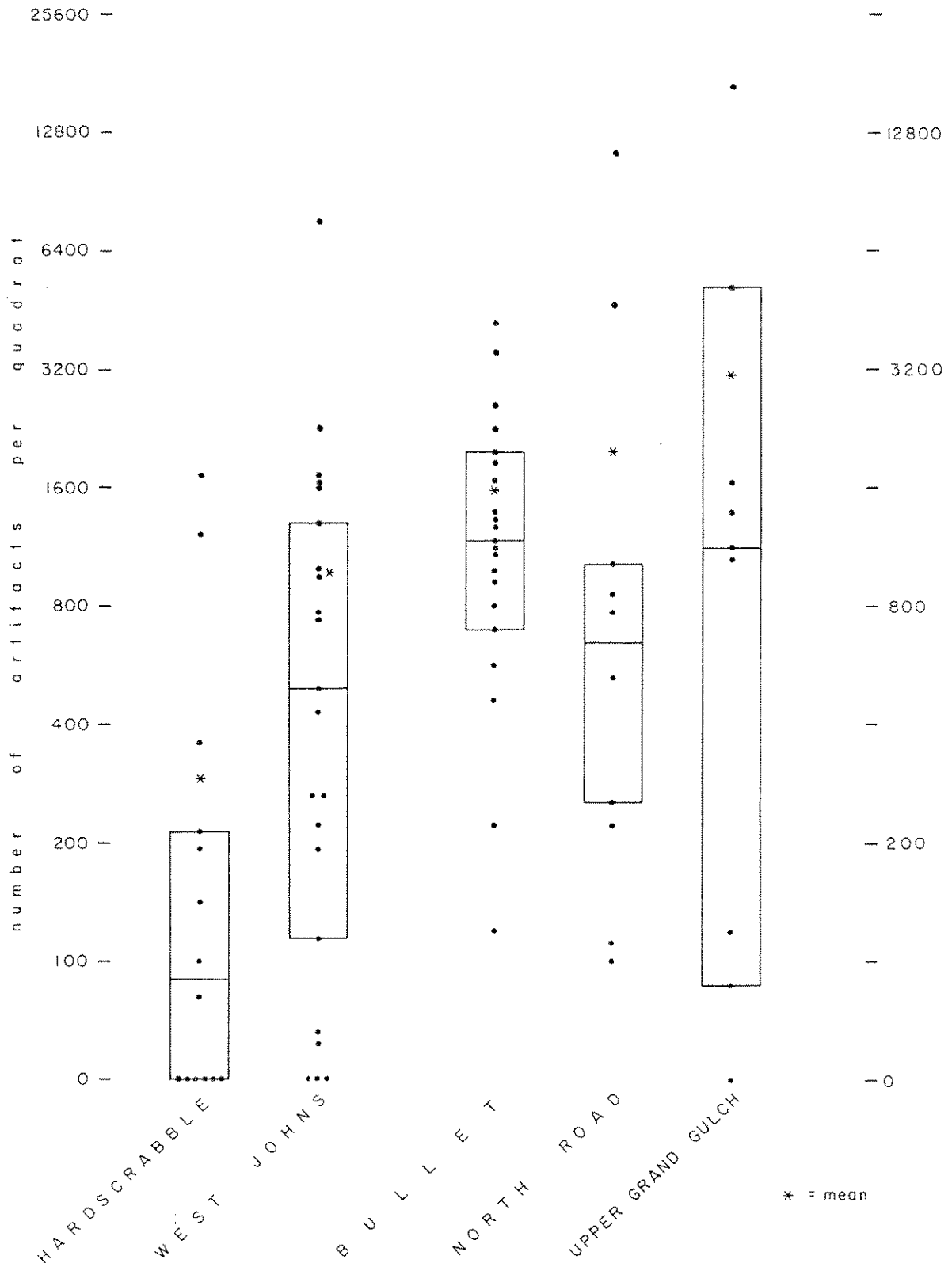


Figure IV-3a

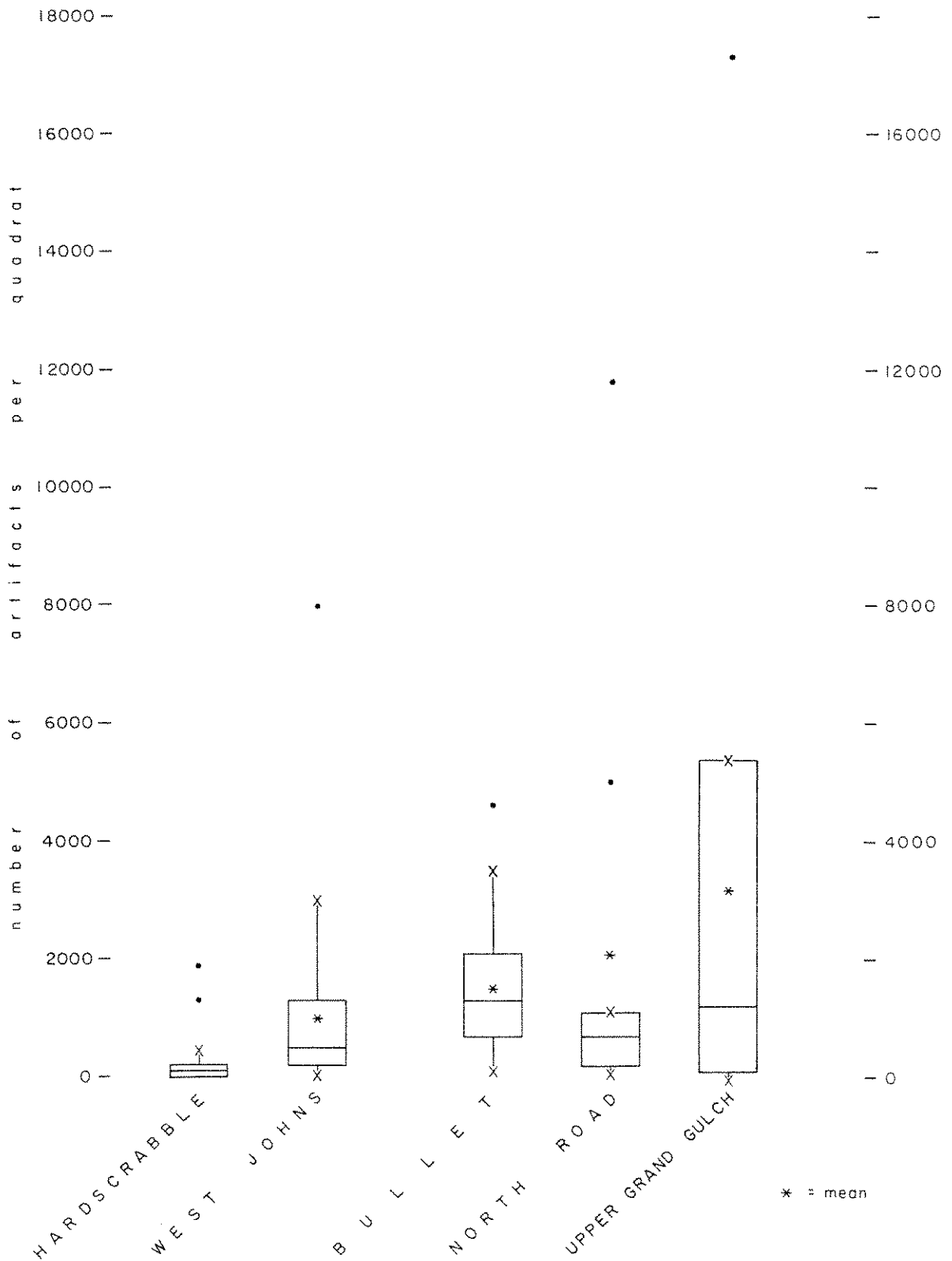


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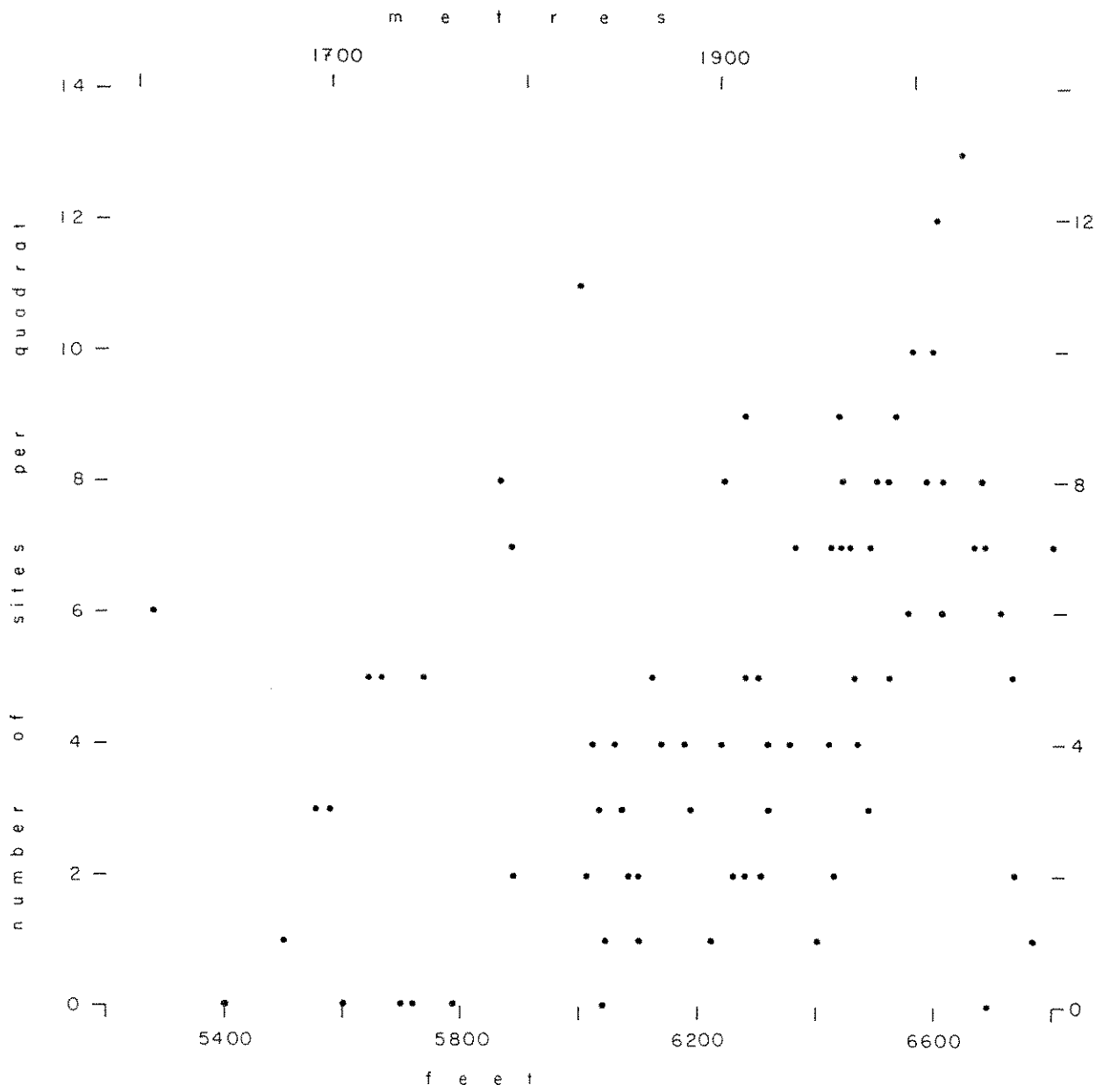


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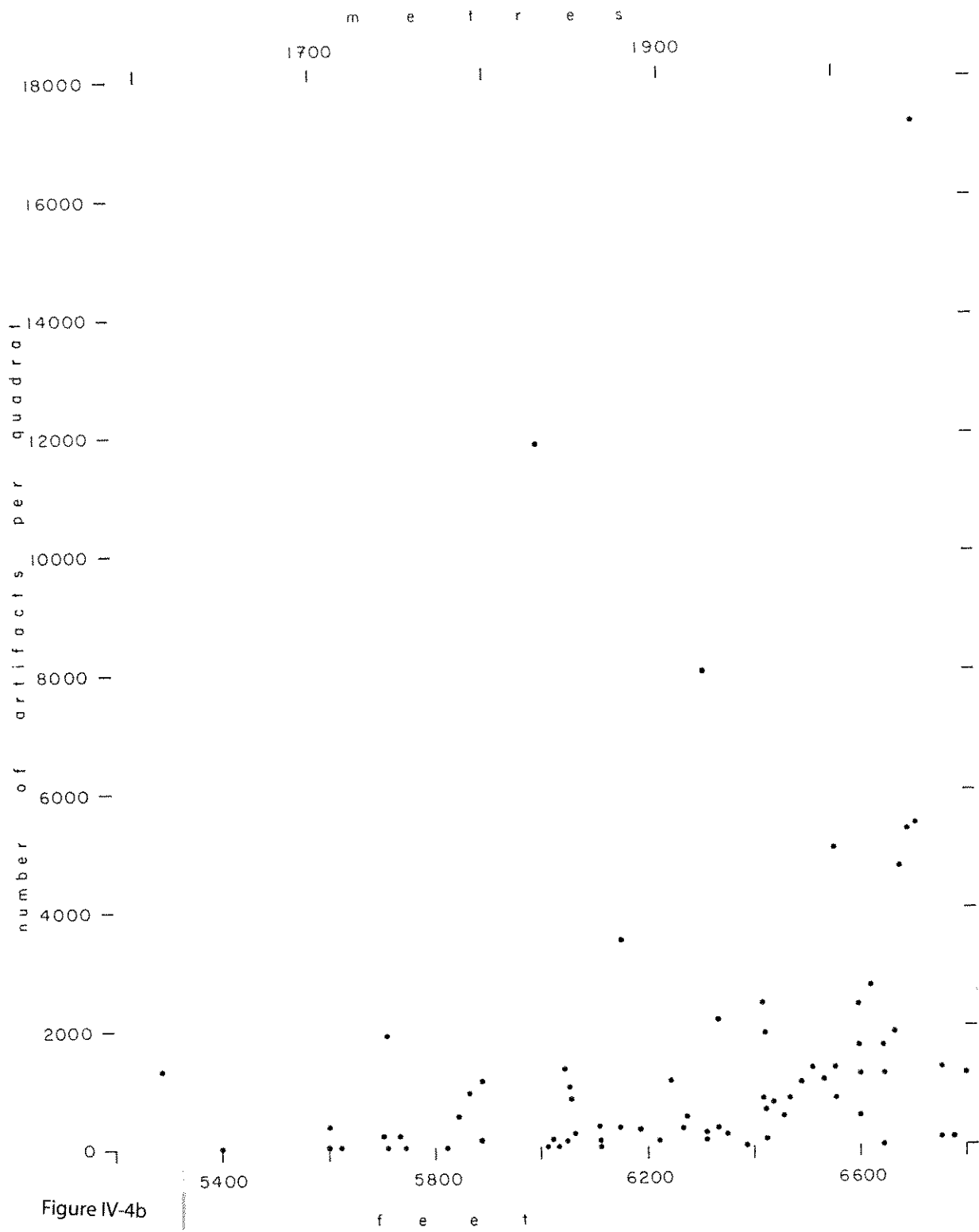


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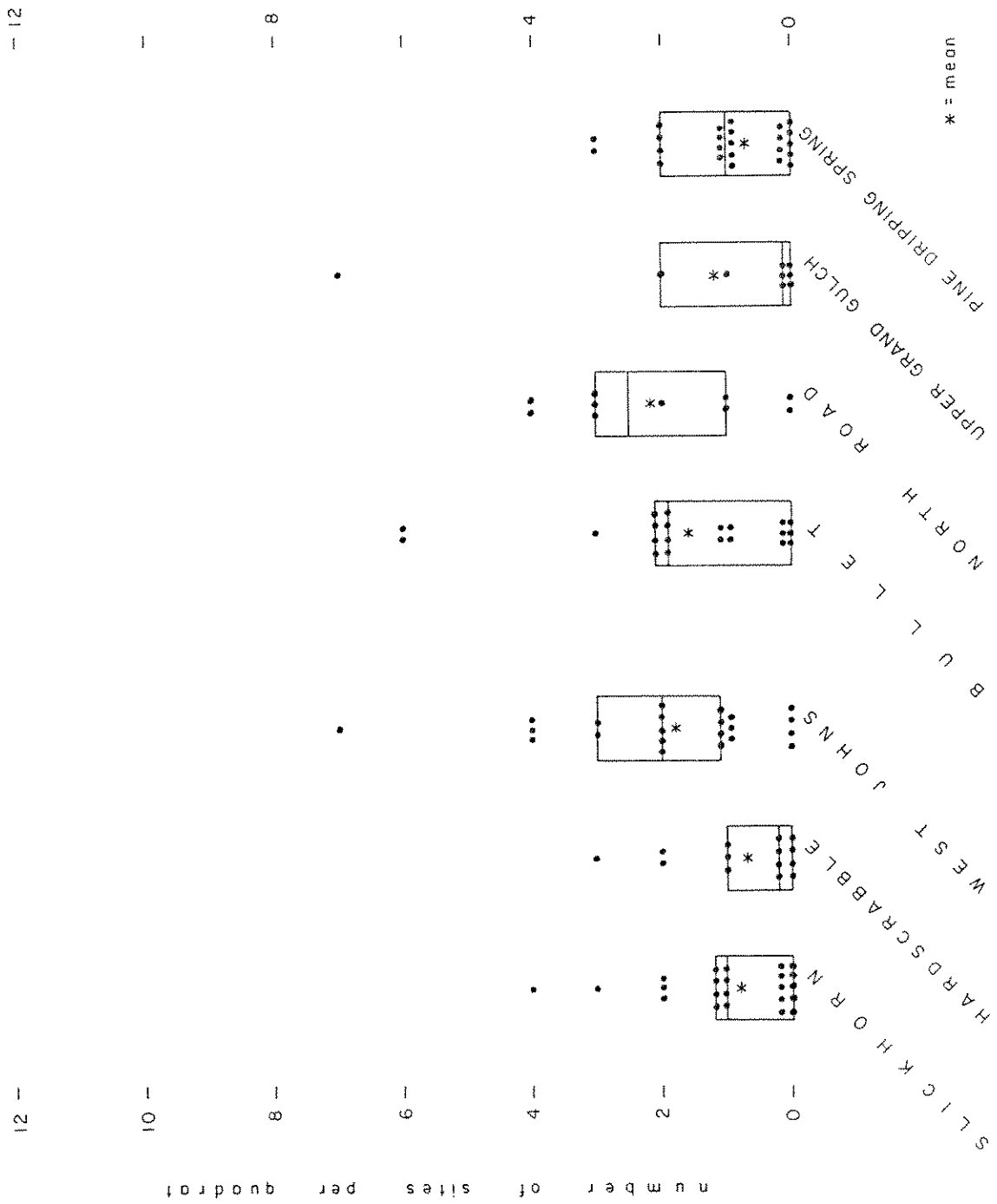


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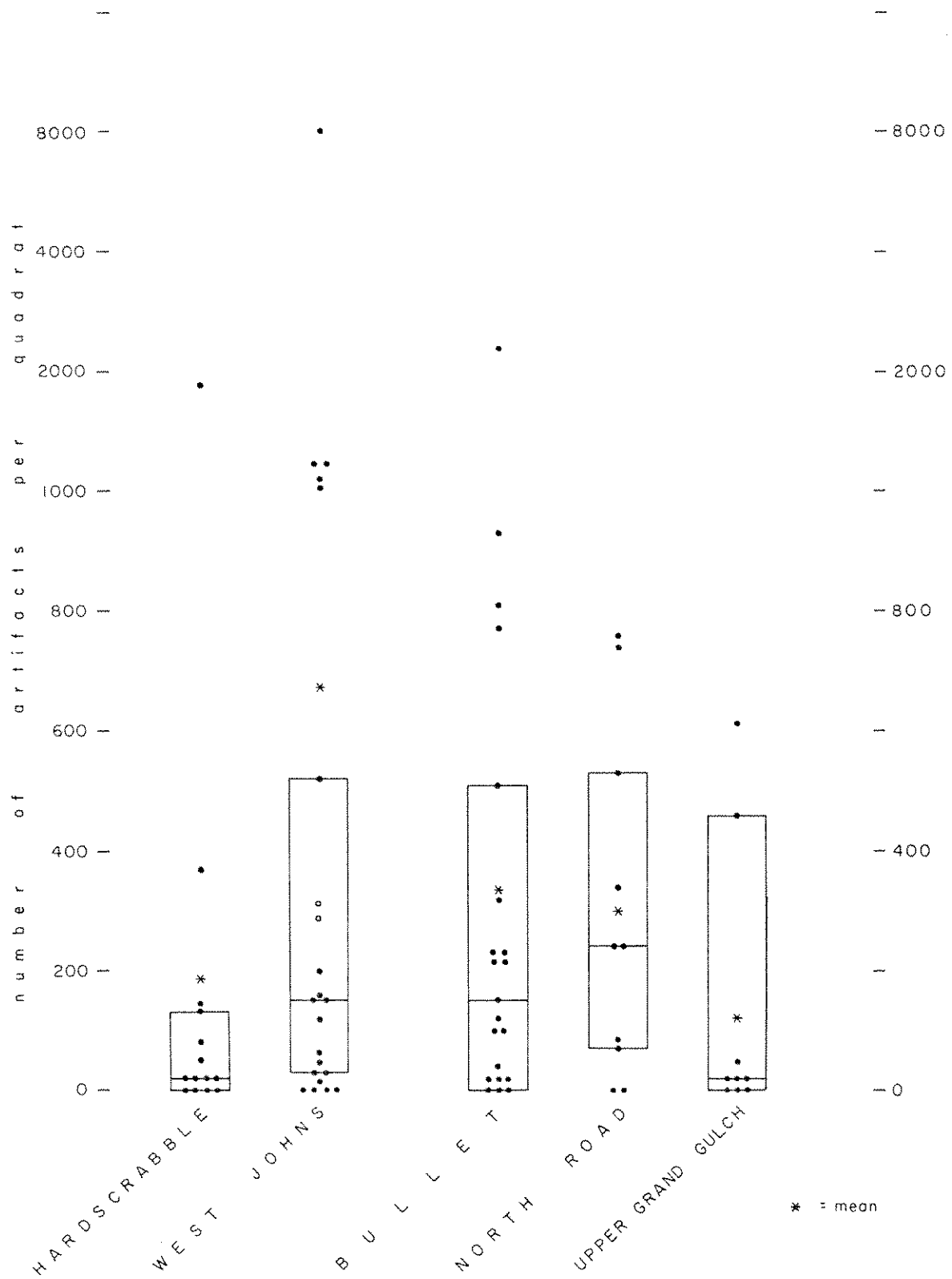


Figure IV-6

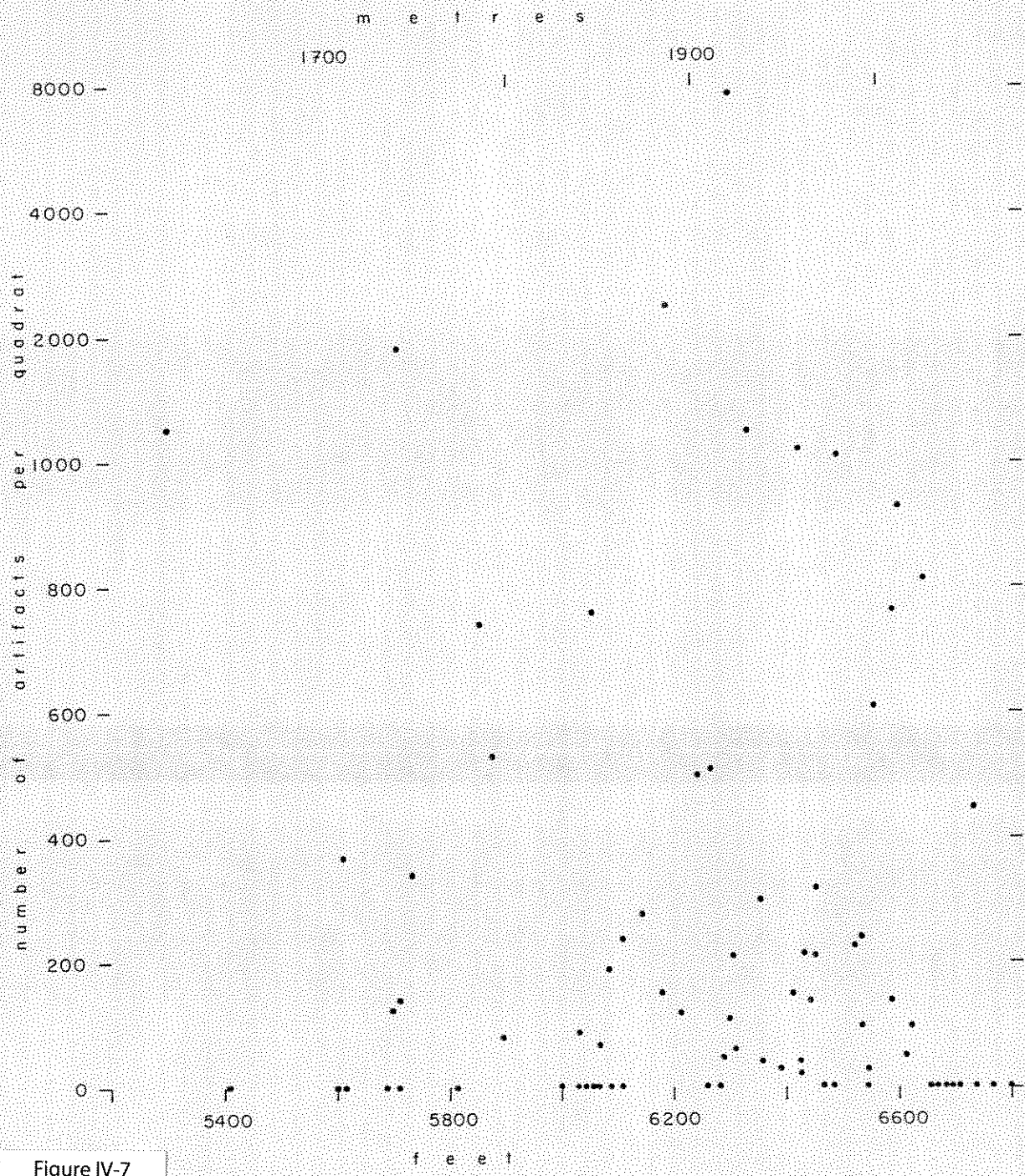


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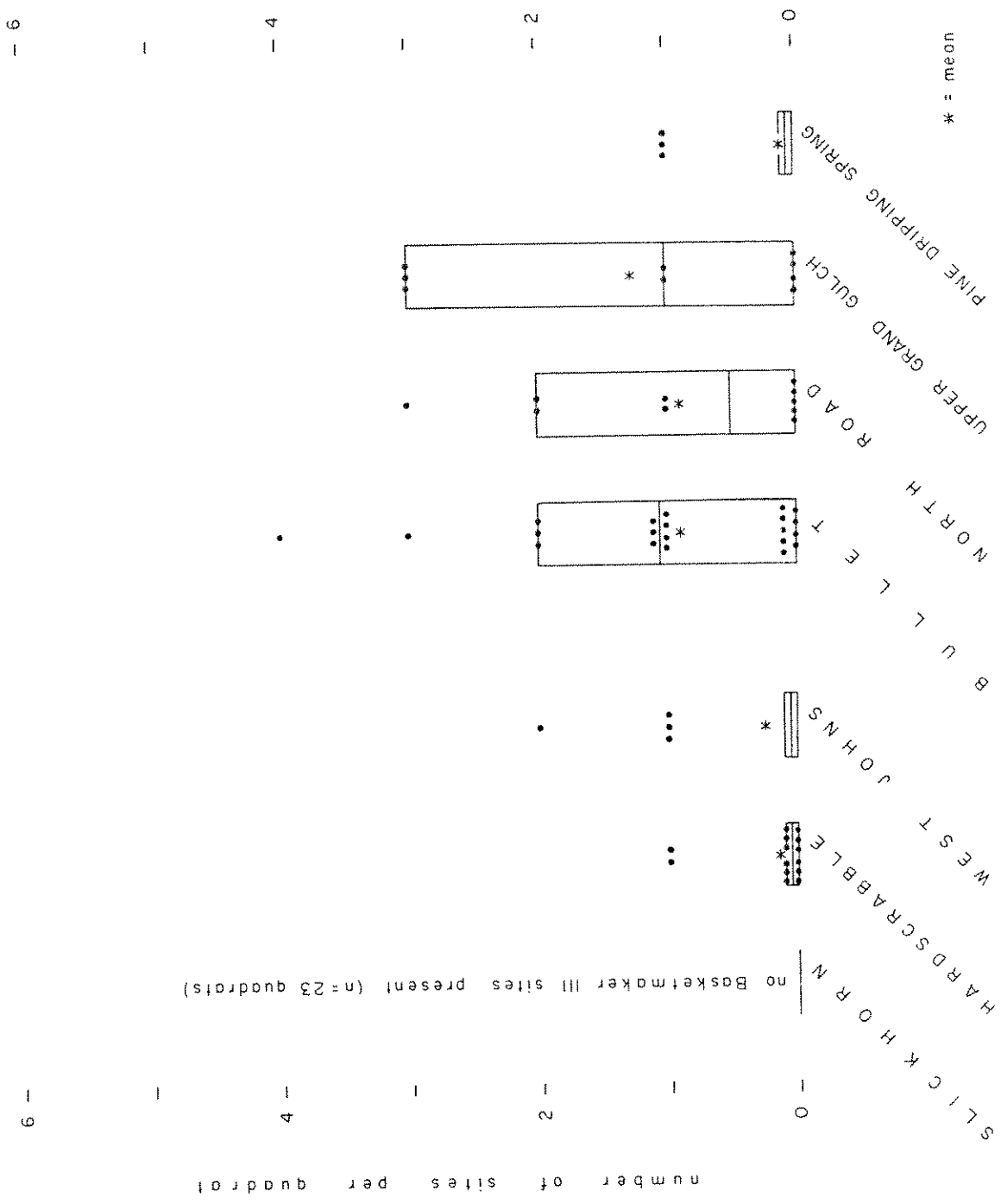


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U.S. GEOLOGICAL SURVEY

* = mean

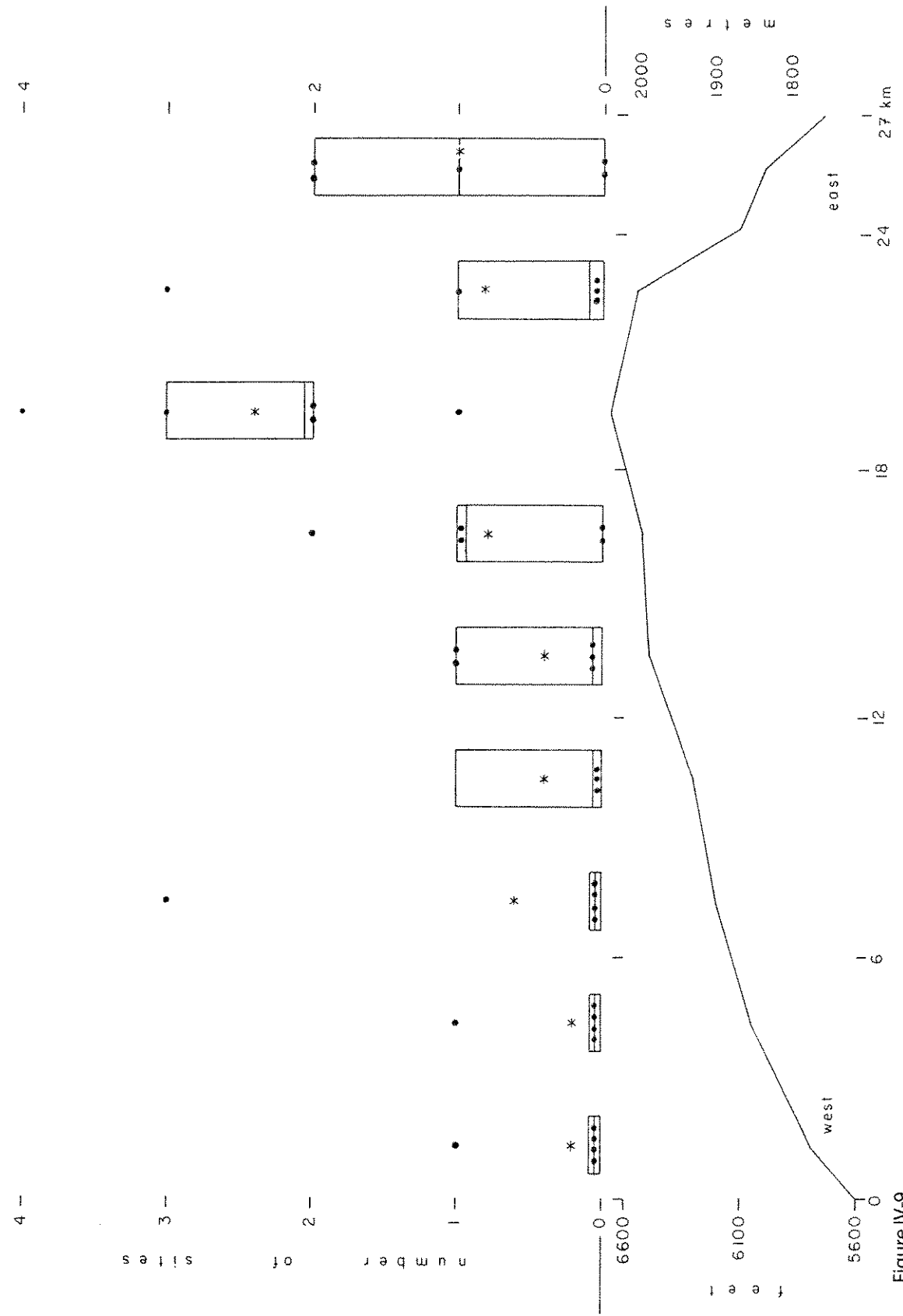


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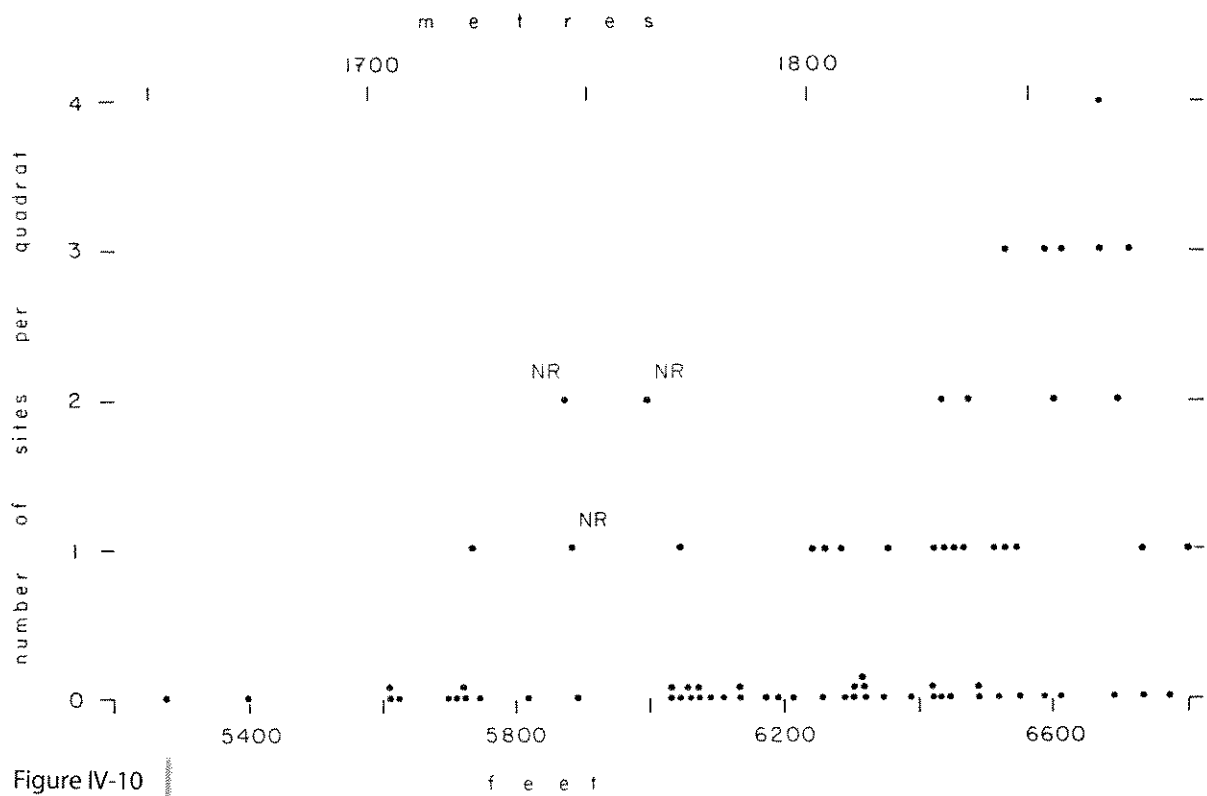


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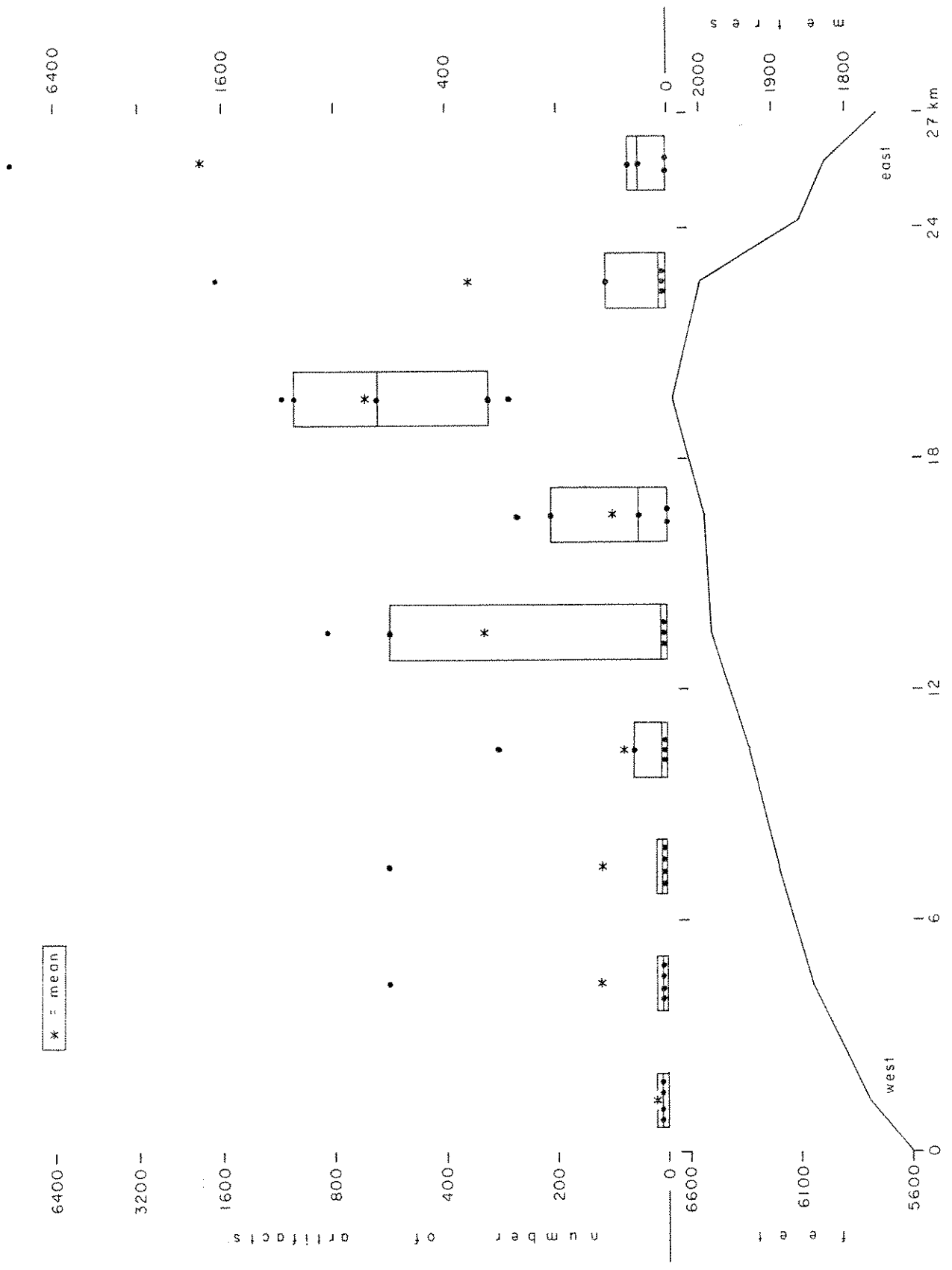


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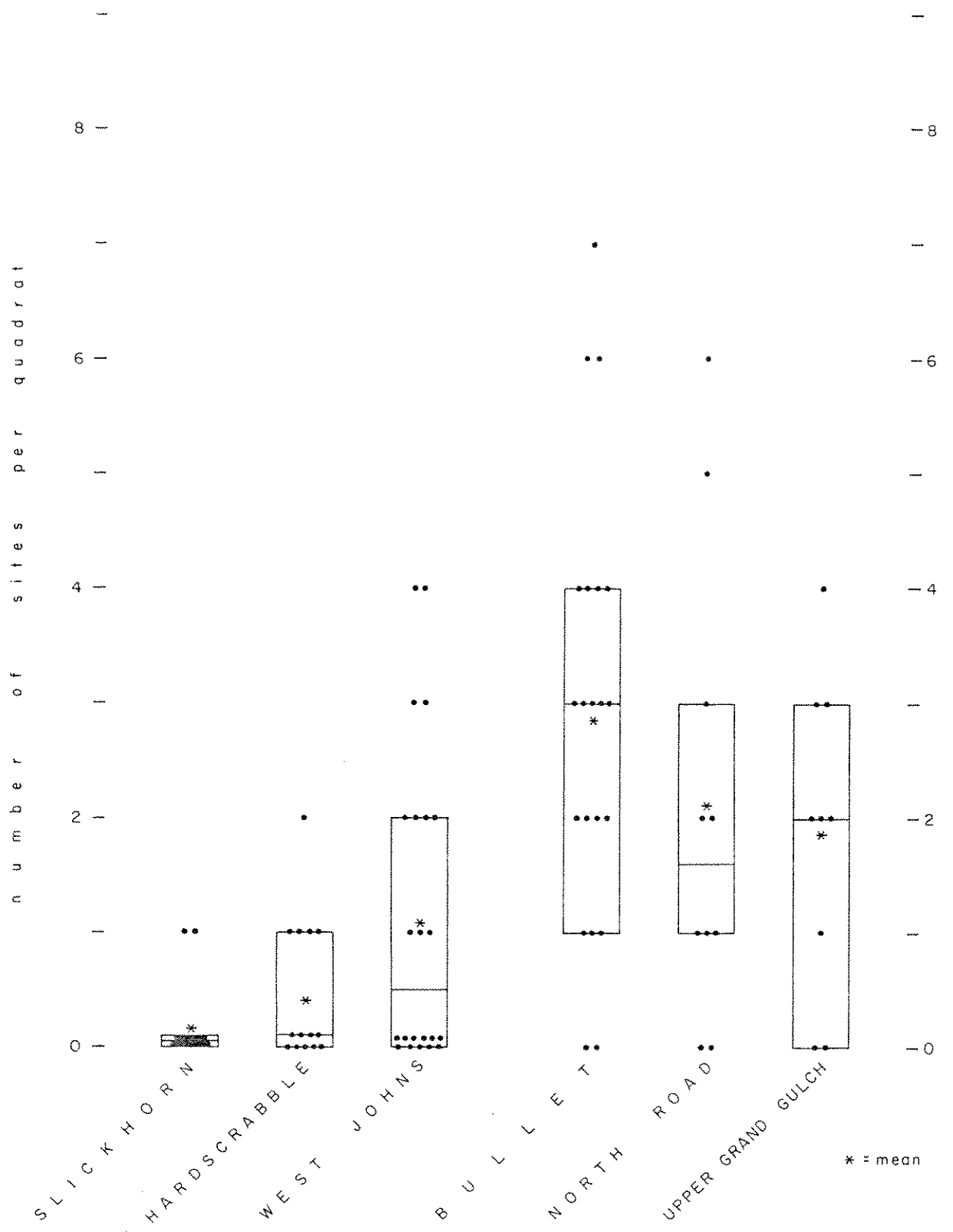


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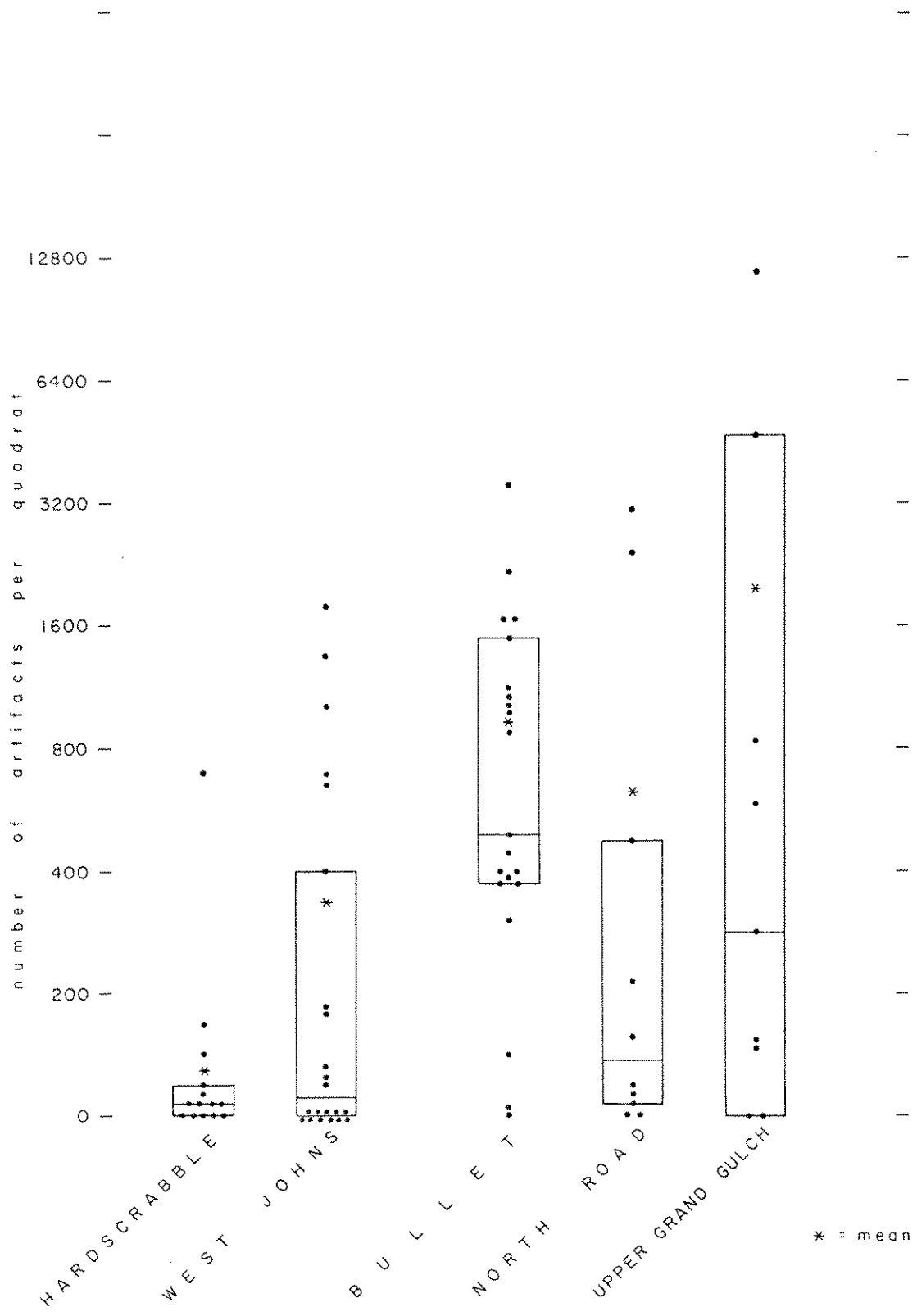


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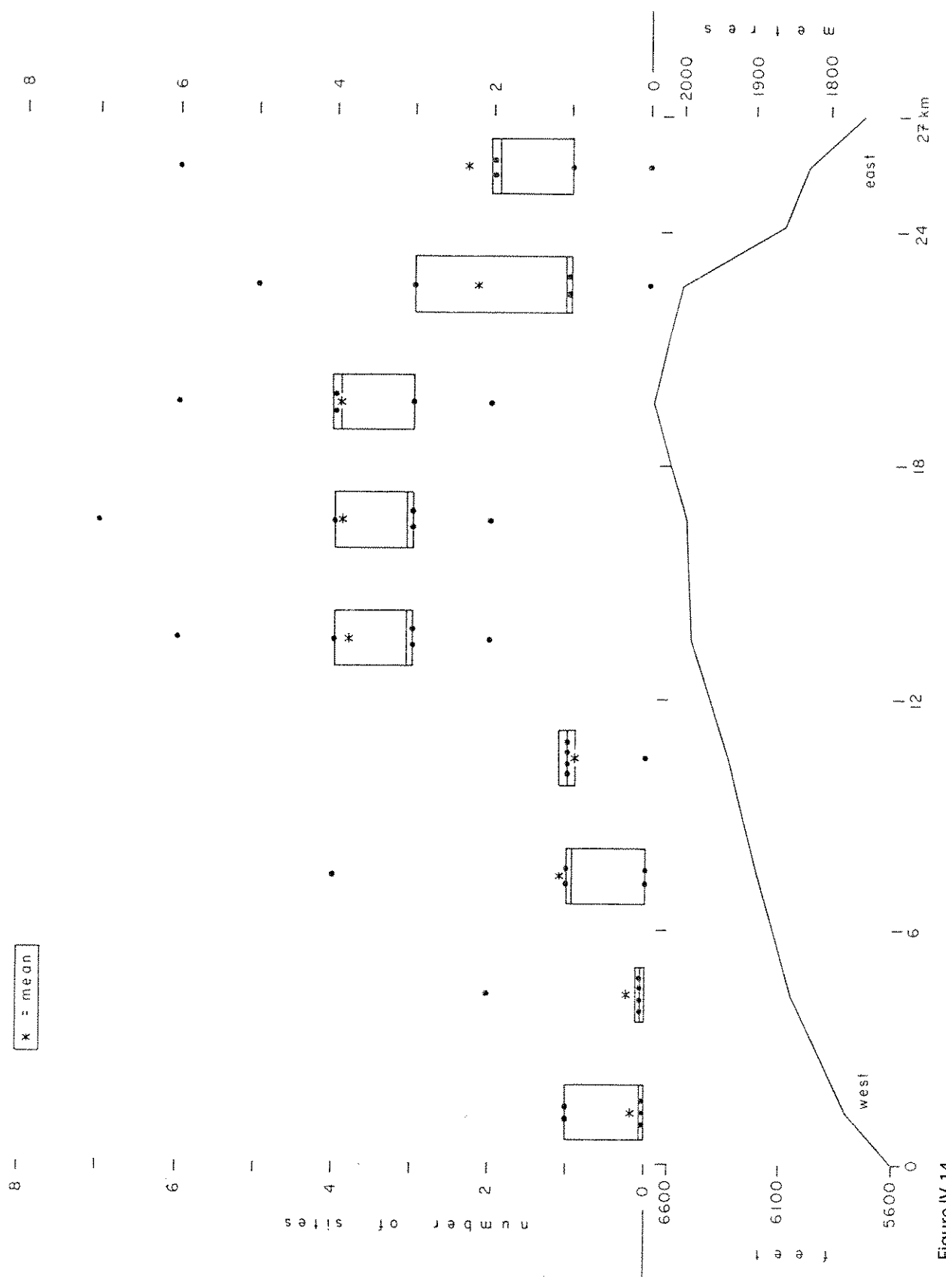


Figure IV-14

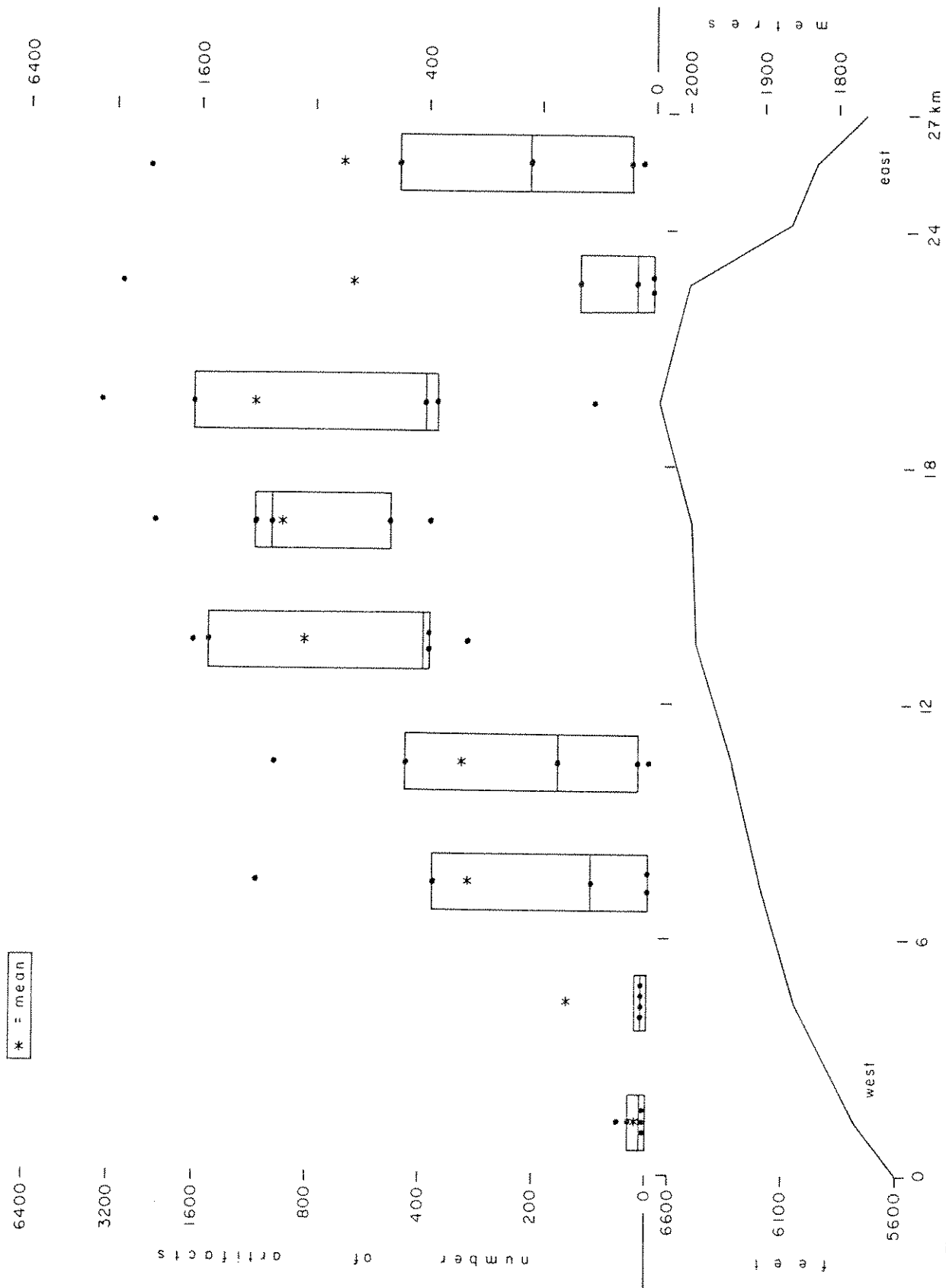


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TABLE IV - 1a

CEDAR MESA QUADRAT SITE DRAINAGE SUMMARY STATISTICS

Drainage UPPER GRAND

n of Quadrats in Drainage 9

1/4 - 3/4 defined as values of the 2nd and the 8th quadrats.

Median defined as value of the 5th quadrat

89% confidence intervals is the values of the 3rd and 8th quadrat

Quadrat	BMII	BMIII	PII-PIII	?	Total
U-1	0	0	1	0	1
U-2	0	3	3	1	7
U-3	0	0	0	0	0
U-4	1	3	2	2	8
U-5	2	1	2	0	5
U-6	0	3	3	0	6
U-7	7	0	2	1	10
U-8	0	0	0	2	2
U-9	0	1	4	2	7
TOTAL	10	11	17	8	46
1/4 - 3/4	0-2	0-3	0-3	0-2	1-8
Median	0	1	2	1	6
Mean	1.11	1.22	1.89	.89	5.11
89% median confidence intervals	0-2	0-3	1-3	0-2	2-8

Drainage NORTH ROAD

n of Quadrats in Drainage 10

1/4 - 3/4 defined as values of the 3rd and the 8th quadrats

Median defined as value(s) of the 5th and 6th divided by 2.0

89% confidence intervals is the values of the 3rd and 8th quadrat

Quadrat	BMI	BMIII	PII-III	?	Total
N-1	2	0	0	1	3
N-2	4	0	1	0	5
N-3	1	0	1	1	3
N-4	1	3	5	0	9
N-5	3	2	1	2	8
N-6	4	0	0	0	4
N-8	3	0	2	0	5
N-9	0	1	3	0	4
N-10	3	1	2	1	7
N-11	0	2	6	3	11
TOTAL	21	9	21	8	59
1/4 - 3/4	1-3	0-2	1-3	0-1	4-8
Median	2.5	0.5	1.5	.5	5
Mean	2.10	.90	2.10	.80	5.90
89% median confidence intervals	1-3	0-2	1-3	0-1	3-8

Drainage BULLET

n of Quadrats in Drainage 21

1/4 - 3/4 defined as values of the 5th and the 17th quadrats.

Median defined as value of the 11th quadrat.

90% confidence intervals is the values of the 7th and 15th quadrat

Quadrat	BMII	BMIII	PII-III	?	Total
B-1	1	0	7	0	8
B-3	0	2	6	0	8
B-4	2	0	3	2	7
B-5	3	1	1	3	8
B-6	0	4	3	0	7
B-7	1	3	4	0	8
B-8	2	0	3	1	6
B-9	2	0	0	3	5
B-10	6	0	2	2	10
B-11	2	0	3	4	9
B-12	1	1	4	2	8
B-13	0	1	2	2	5
B-14	2	0	1	0	3
B-15	2	1	3	2	8
B-16	2	2	4	4	12
B-17	0	0	2	0	2
B-18	1	1	1	1	4
B-19	0	2	2	0	4
B-20	2	0	0	0	2
B-21	6	1	4	2	13
B-22	0	1	6	2	9
TOTAL	35	20	61	30	146
1/4 - 3/4	0-2	0-2	1-4	0-2	4-9
Median	2	1	3	2	8
Mean	1.67	.95	2.90	1.43	6.95
90% median confidence intervals	1-2	0-1	2-4	0-2	4-8

Drainage WEST JOHNS

n of Quadrats in Drainage 22

1/4 - 3/4 defined as values of the 6th and the 17th quadrats

Median defined as values of the 11th and 12th divided by 2.0

90% confidence intervals is the values of the 8th and 15th quadrats

Quadrat	BMII	BMIII	PII-III	?	Total
W-1	3	0	0	1	4
W-2	2	1	3	0	6
W-3	1	0	0	0	1
W-4	3	0	4	0	7
W-5	0	0	0	0	0
W-6	1	0	2	1	4
W-7	0	0	2	1	3
W-8	1	0	0	0	1
W-9	4	0	1	0	5
W-10	4	0	0	0	4
W-11	1	1	2	1	5
W-12	1	2	3	1	7
W-13	2	0	1	0	3
W-14	0	0	0	0	0
W-15	4	0	2	0	6
W-16	1	1	4	0	6
W-17	2	0	1	1	4
W-18	0	0	0	1	1
W-19	7	0	0	0	7
W-20	2	0	0	0	2
W-21	1	0	0	1	2
W-22	2	0	0	0	2
TOTAL	42	5	25	8	80
1/4 - 3/4	1-3	0-0	0-2	0-1	2-6
Median	2	0	.5	0	4
Mean	1.91	.227	1.14	.364	3.64
90% median confidence intervals	1-2	0-0	0-2	0-1	2-5

Drainage HARDSCRABBLE

n of Quadrats in Drainage 14

1/4 - 3/4 defined as values of the 4th and the 11th quadrats.

Median defined as value(s) of the 7th and 8th divided by 2.0

88% confidence intervals is the values of the 4th and 10th quadrat.

Quadrat	BMII	BMIII	PII-III	?	Total
H-1	0	0	0	0	0
H-2	2	0	0	0	2
H-3	0	0	1	0	1
H-4	1	1	1	1	4
H-5	2	0	0	1	3
H-6	0	0	0	1	1
H-7	0	0	0	2	2
H-8	1	0	1	0	2
H-9	0	0	0	0	0
H-10	0	0	0	0	0
H-11	3	0	0	0	3
H-12	0	0	0	0	0
H-13	1	0	1	3	5
H-14	0	1	2	0	3
TOTALS	10	2	6	8	26
1/4 - 3/4	0-1	0-0	0-1	0-1	0-3
Median	0	0	0	0	2
Mean	.714	.143	.429	.571	1.86
88% median confidence intervals	0-1	0-0	0-1	0-1	0-3

TABLE IV - 1b

CEDAR MESA QUADRAT ARTIFACT/DRAINAGE SUMMARY STATISTICS

Drainage UPPER GRAND GULCH

n of Quadrats in Drainage 9

1/4 - 3/4 defined as values of the 2th and the 8th quadrats

Median defined as value of the 5th quadrat

89% confidence intervals are the values of the 3rd and 8th quadrats

Statistic	BMII	BMIII	PII/III	Total from ? sites	Quadrat artifact totals
Drainage totals	1113	8529	18208	478	28328
Quadrat means	123.7	947.7	2023.1	53.1	3147.6
Low	0	0	0	0	0
High	613	4991	12277	391	17317
1/4	0	0	0	0	82
3/4	456	1454	0	82	5421
Quadrat medians	0	107	298	0	1232
89% confidence intervals	0	0	127	0	127
(Median)	456	1454	3967	82	5421

Drainage NORTH ROAD

n of Quadrats in Drainage 10

1/4 - 3/4 defined as values of the 3rd and the 8th quadrats.

Medians defined as value(s) of the 5th and 6th divided by 2.0

89% confidence intervals are the values of the 3rd and 8th quadrats.

Statistic	BMII	BMIII	PII/III	Total from ? sites	Quadrat artifact totals
Drainage totals	3010	11048	6706	134	20898
Quadrat means	301.0	1104.8	670.6	13.4	2089.8
Low	0	0	0	0	99
High	756	9180	3107	59	11892
1/4	69	0	19	0	232
3/4	535	104	505	23	1090
Quadrat means	239	25	85	0	668
89% confidence intervals	69	0	19	0	232
(Median)	535	104	505	23	1090

Drainage BULLET

n of Quadrats in Drainage 21

1/4 - 3/4 defined as values of the 5th and the 17th quadrats

Median defined as value of the 11th quadrat.

90% confidence intervals are the values of the 7th and 15th quadrats

Statistic	BMI	BMIII	PII/III	Total from ? sites	Quadrat artifact totals
Drainage totals	7156	4939	19515	190	31800
Quadrat means	340.8	235.2	929.0	9.0	1514.3
Low	0	0	0	0	127
High	2422	1120	3612	208	4683
1/4	0	0	0	0	721
3/4	508	312	471	17	2110
Quadrat medians	147	50	525	4	1230
90% confidence intervals	41	0	390	0	956
(Median)	228	278	1132	10	1674

Drainage WEST JOHNS

n of Quadrats in Drainage 22

1/4 - 3/4 defined as values of the 6th and the 17th quadrats.

Median defined as values of the 11th and 12th divided by 2.0

90% confidence intervals are the values of the 8th and 15th quadrats

Statistic	BMII	BMIII	PII/III	Total from ? sites	Quadrat artifact totals
Drainage totals	14618	1379	6706	173	22876
Quadrat means	664.5	62.7	304.8	7.9	1039.8
Low	0	0	0	0	0
High	7987	780	1837	42	8029
1/4	27	0	0	0	118
3/4	517	0	397	2	1304
Quadrat medians	143	0	21	0	482
90% confidence intervals	45	0	0	0	230
(Median)	280	0	173	1	1026

Drainage Hardscrabble
 n of Quadrats in Drainage 14

1/4 - 3/4 defined as values of the 4th and the 11th quadrats.

Median defined as values of the 7th and 8th divided by 2.0

88% confidence intervals is the values of the 4th and 10th quadrats

Statistic	BMII	BMIII	PII/III	Total from ? sites	Quadrat artifact totals
Drainage totals	2667	611	1044	11	4333
Quadrat means	190.5	43.6	74.6	.8	309.5
Low	0	0	0	0	0
High	1898	611	717	5	1898
1/4	0	0	0	0	0
3/4	123	0	48	1	211
Quadrat medians	0	0	0	0	88
88% confidence intervals	0	0	0	0	0
Median	79	0	24	0	195

TABLE IV - 2

Drainage Canyon Survey Summary

(Not including quadrat canyon sites, 100% inventory)

<u>Drainage</u>	<u>Site Class</u>	<u>Number</u>
Upper Grand Gulch	BM II	6
	BM III	4
	PII/III Habitation	13
	PII/III Non-Habitation	16
	Specials	0
	Other	0
Bullet	BM II	29
	BM III	6
	PII/III Habitation	26
	PII/III Non-Habitation	31
	Special	5
	Other	5
North Road	BM II	17
	BM III	4
	PII/III Habitation	10
	PII/III Non-Habitation	25
	Special	1
	Other	2
Hard- scrabble	BM II	7
	BM III	0
	PII/III Habitation	5
	PII/III Non-Habitation	8
	Special	1
	Other	0
West Johns	BM II	25
	BM III	1
	PII/III Habitation	17
	PII/III Non-Habitation	24
	Special	0
	Other	4

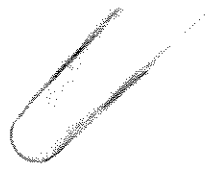


TABLE IV - 3a

GRAND GULCH EXTENSION QUADRAT SURVEYS

Drainage Slickhorn

n of Quadrats in Drainage 23

1/4 - 3/4 defined as values of the 6th and the 18th quadrats.

Median defined as value(s) of the 12th quadrat.

96% confidence intervals is the values of the 7th and 17th quadrat.

<u>QUADRAT</u>	<u>BM II</u>	<u>BM III</u>	<u>PUEBLO</u>	<u>TOTAL</u>
55	1	0	0	1
74	1	0	0	1
75	1	0	0	1
64	1	0	0	1
70	3	0	0	3
30	1	0	0	1
72	4	0	0	4
27	2	0	0	2
8	1	0	1	2
19	2	0	0	2
40	1	0	0	1
9	2	0	0	2
63	0	0	1	1
<u>Plus 10 empty quadrats</u>				
TOTAL	21	0	2	22
1/4 - 3/4	0-1	0-0	0-0	0-2
MEDIAN	1	0	0	1
96% confidence intervals	0-1	0-0	0-0	0-1
MEAN	.913	0	.087	.96

Drainage Pine Dripping

n of Quadrats in Drainage 24

1/4 - 3/4 defined as values of the 6th and the 19th quadrats.

Median defined as value(s) of the 12th and 13th divided by 2.0.

97% confidence intervals is the values of the 7th and 18th quadrat.

<u>QUADRAT</u>	<u>BM II</u>	<u>BM III</u>	<u>PUEBLO</u>	<u>?</u>	<u>TOTALS</u>
60	0	0	1	0	1
12	1	0	1	0	2
29	0	0	0	1	1
57	1	0	0	0	1
43	2	0	0	0	2
23	1	0	0	1	2
33	2	0	0	0	2
64	1	0	0	0	1
59	1	0	0	0	1
61	1	0	0	0	1
11	0	0	0	1	1
34	1	0	2	0	3
48	2	1	0	1	4
47	0	0	0	1	1
39	3	0	2	1	6
58	3	0	0	1	4
5	0	0	6	1	7
28	0	1	2	1	4
6	2	0	0	0	2
65	1	1	1	1	4
37	1	0	2	1	4
55	0	0	2	0	2

Plus 40 and 54, Empty Quadrats

TOTALS	23	3	19	11	56
1/4 - 3/4	0-2	0-0	0-2	0-1	1-4
MEDIAN	1	0	0	0	2
97% confidence intervals	0-1	0-0	0-1	0-1	0-4
MEAN	.96	.125	.79	.46	2.33

TABLE IV - 3b

GRAND GULCH EXTENSION CANYON INVENTORIES

<u>DRAINAGE</u>	<u>BM II - III</u>	PUEBLO		
		<u>HABITATION</u>	<u>L.A.S.</u>	<u>SITES WITH 6+ STRUCTURES</u>
Dripping- Pine	10	6	9	3
Slickhorn	5	11	16	6