Zinc CRB Soil Sample Survey

Brock000173

Value	Tray	Frequency		Cum Fr.	
0-49		2	2	226	100%
50		13	13	224	99.115
100		17	17	211	93.362
150		29	29	194	85.841
200		23	23	165	73.008
250		30	30	142	62.831
300		16	16	112	49.557
350		13	13	96	42.478
400		14	14	83	36.725
450		9	9	69	30.531
500		7	7	60	26.548
550		5	5	53	23.451
600		3	3	48	21.239
650		7	7	45	19.912
700		2	2	38	16.814
750		7	7	36	15.929
800		1	1	29	12.832
850		1	1	28	12.389
900		4	4	27	11.947
950		1	1	23	10.177
1000		IIII	5	22	9.735
1050		IIII	5	17	7.522
1100		III	3	12	5.309
1150		1	1	9	3.982
1200		1	1	8	3.539
1250					30
1300					
1350		III	3	7	3.097
1400					
1450					
1500		1	1	4	1.769
1555					
1600					
1650					
1700					
1750		1	1	3	1.327
1800		1	1	2	0.885
1850					
1900					
1950					
2000					
2050					
odds					
4900			1	1	0.442

CAB Soil Samples

Zinc.

	Class Int.	Tally.	f	mp.	f mp.	f(mp)^2	d	fd	fd^2	
	0 - 50	||	2	25	50	1250	-4	-8	32	
	50 - 100	~~||||~~ ~~||||~~ |||	13.	75	975	73125	-3	-39	117	
~~126~~ 34	100 - 150	~~||||~~ ~~||||~~ ~~||||~~ ||	17.	125	2125	265625	-2	-34	68	
29	150 - 200	~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ||||	29	175	5075	888125	-1	-29	29	
23	200 - 250	~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ |||	23	225	5175	1164375	0	0	0	
30	250 - 300	~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~ ~~||||~~	30	275	8250	2268750	1	30	30	
16	300 - 350	~~||||~~ ~~||||~~ ~~||||~~ |	16	325	5200	1690000	2	32	64	
13	350 - 400	~~||||~~ ~~||||~~ |||	13	375	4875	1828125	3	39	117	
4.48	400 - 450	~~||||~~ ~~||||~~ ||||	14.	425	5950	2528750	4	56	224	
129.0	450 - 500	~~||||~~ ||||	9	475	4275	2030625	5	45 (193)	225	(1595)
129	500 - 550	~~||||~~ ||	7	525	3675	1929375	6	42	252	
204 √	550 - 600	~~||||~~	(181) 5	575	2875	1653125	7	35	245	
= 63%	600 - 650	|||	3	625	1875	1171875	8	24	192	
//	650 - 700	~~||||~~ ||	7	675	4725	3189375	9	63	567	
118.8	700 - 750	||	2	725	1450	1051250	10	20 (65)	200	
	750 - 800	~~||||~~ ||	7	775	5425	4204375	11	77	847	
119.	800 - 850	|	1	825	825	680625	12	12	144	
	850 - 900	|	1.	875	875	765625	13	13	169	(2936)
119.58	900 - 950	||||	(23) 4	925	3700	3422500	14	56	784	
204	950 - 1000	|	1	975	975	950625	15	15	225	
			204		Σ 68350	Σ 31757500		Σ(559	Σ4531	

31757500

(−115)

(= 449)

odds
1040
1210
1160
1080
1020
1560
1020
1560
4950
1010
1140
1080 } 5000 W (A, 7–14)
1080
1120
1040
1380
1780
1500
1840 } 4+500 W (25, 29)
1060
1100

$\bar{x} = \frac{68350}{204} = 335.$

$\bar{x} = 225 + \frac{449}{204} . 50 = 335.$

$S = \sqrt{\frac{31757500}{204} - \left(\frac{68350}{204}\right)^2}$ 155674.

$= 208$

$S = 50\sqrt{\frac{4531}{204} - \left(\frac{449}{204}\right)^2}$

$= 208$

$\bar{x} = 225 + \frac{193}{181} . 50 = 278.$

$S = 50\sqrt{\frac{1595}{181} - \left(\frac{193}{181}\right)^2}$

$= 138$

~~x ± S~~

$\bar{x} + S = 416$

$\bar{x} - S = 140$

$S = \sqrt{}$

- $\bar{x}$ = ~~208~~ 278
- $\bar{x} + S$ = 416
- $\bar{x} + 2S$ = 554
- $\bar{x} + 3S$ = 692
- $\bar{x} + 4S$ = 830

Lead Cab Group Aug 17 '74

	ppm.	Tally	f	d	fd	fd²
	0					
	5					
	10	|||	3	-4	-12	48
	15	𝍸 𝍸 𝍸 |||	18	-3	-54	162
9.9	20	𝍸 𝍸 𝍸	15	-2	-30	60
20	25	𝍸 𝍸 𝍸 𝍸	20	-1	-20	20
33	30	𝍸 𝍸 𝍸 𝍸 𝍸 𝍸 |||	33	0	0	0
24	35	𝍸 𝍸 𝍸 𝍸 ||||	24	1	24	24
22	40	𝍸 𝍸 𝍸 𝍸 ||	22	2	44	88
19	45	𝍸 𝍸 𝍸 ||||	19	3	57	171
15	50	𝍸 𝍸 𝍸	15	4	60	240
9	55	𝍸 ||||	9	5	45	225
32	60	||||	4	6	24	144
√155.1	65	𝍸 ||	7	7	49	343
	70	𝍸 𝍸 ||||	14	8	112	896
	75	𝍸 𝍸	10	9	90	810
	80	|||	3	10	30	300
	85	𝍸 |||	8	11	88	968
	90	||	2	12	24	288
	95	||||	4	13	52	676
	100	|	1	14	14	196
	105	N.	231✓		597✓	5659
	110	||	2			
	115	||||	4			
	120	||	2			
	125	|||	3			
	130					
	135					
	140	|	1			
	145	|	1			
	150					
	155	|	1			
	160					
	165					
	170					
	175					
	180					
	185					
	190					
	195					
	200	|	1			
	235	| 5000W A-11				

G.I. = 5 ppm

$$\bar{x} = 30 + \frac{597}{231} \cdot 5 = 43 \text{ ppm}$$

$$s = 5\sqrt{\frac{\sout{664}\ 5659}{231} - \left(\frac{597}{231}\right)^2}$$

s = 21 ppm

x − s = 22 ppm
x + s = 64 ppm
85

67%