



UNIVERSITY OF NEVADA RENO

Nevada Bureau of Mines and Geology
University of Nevada Reno
Reno, Nevada 89557-0088
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MINERAL INVENTORY AND GEOCHEMICAL SURVEY
APPENDICES F, G, & H
GROOM MOUNTAIN RANGE
LINCOLN COUNTY, NEVADA

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Prepared for Desert Research Institute
University of Nevada System
Under contract to Tactical Air Command
United States Air Force

This information should be considered preliminary.
It has not been edited.



APPENDIX F

00010 FISHER-K STATISTICS - U S G S STATPAC (05/12/80)

DATE 7/13/85

TITLE	INPUT ID	N	M	***** OPTIONS *****
Groom	-ds-1	135	37	0 0 0 0 0 0 0 0 0 0

NUMBER OF SELECTED COLUMNS = 37

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37			

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FE%	S-MGX	S-CA%	S-TIX	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-RE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO
S-NB	S-MI	S-PB	S-SB	S-SC	S-SN	S-SP	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH	INST-HG	AA-AS-P	AA-ZN-P	AA-SP-P			

NUMBER OF SELECTED ROW PAIRS = 1

SELECTED ROW PAIRS
1- 135

DDO10 FISHER-K STATISTICS - U S G S STATPAC (06/12/80)

DATE 7/10/85

Grpdm

NO. COLUMN	N	H	L	G	R	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1 X-COORD.	0	0	0	0	0	0	136	0	60200.000	61925.000	1
2 Y-COORD.	0	0	0	0	0	0	136	0	141316.00	415900.00	2
3 S-FE%	0	0	0	0	0	0	136	0	0.7000000	10.000000	3
4 S-MG%	0	0	0	0	0	0	136	0	0.3000000	7.0000000	4
5 S-CA%	0	0	0	0	0	0	136	0	0.2000000	10.000000	5
6 S-TI%	0	0	0	0	0	0	136	0	0.1000000	1.0000000	6
7 S-MN	0	0	0	0	0	0	136	0	200.00000	200.00000	7
8 S-AG	133	0	1	0	0	0	2	0	3.0000000	10.000000	8
9 S-AS	136	0	0	0	0	0	0	0			9
10 S-AU	136	0	0	0	0	0	0	0			10
11 S-B	0	0	1	0	0	0	135	0	10.000000	100.00000	11
12 S-BA	0	0	0	0	0	0	136	0	300.00000	1500.0000	12
13 S-BE	1	0	31	0	0	0	104	0	1.0000000	3.0000000	13
14 S-BI	136	0	0	0	0	0	0	0			14
15 S-CD	136	0	0	0	0	0	0	0			15
16 S-CD	9	0	36	0	0	0	91	0	5.0000000	30.000000	16
17 S-CR	0	0	0	0	0	0	136	0	15.000000	200.00000	17
18 S-CU	0	0	0	0	0	0	136	0	5.0000000	100.00000	18
19 S-LA	0	0	0	0	0	0	136	0	20.000000	150.00000	19
20 S-MO	135	0	0	0	0	0	1	0	5.0000000	5.0000000	20
21 S-NB	136	0	0	0	0	0	0	0			21
22 S-NI	0	0	0	0	0	0	136	0	5.0000000	30.000000	22
23 S-PB	0	0	0	0	0	0	136	0	10.000000	15000.000	23
24 S-SB	134	0	1	0	0	0	1	0	100.00000	100.00000	24
25 S-SC	0	0	3	0	0	0	133	0	5.0000000	20.000000	25
26 S-SN	136	0	0	0	0	0	0	0			26
27 S-SR	0	0	1	0	0	0	135	0	100.00000	500.00000	27
28 S-V	0	0	0	0	0	0	136	0	15.000000	200.00000	28
29 S-W	136	0	0	0	0	0	0	0			29
30 S-Y	0	0	0	0	0	0	136	0	10.000000	50.000000	30
31 S-ZN	123	0	8	0	0	0	5	0	200.00000	300.00000	31
32 S-ZR	0	0	0	0	0	0	136	0	30.000000	500.00000	32
33 S-TH	136	0	0	0	0	0	0	0			33
34 INST-HG	7	0	9	0	0	0	112	0	0.0200000	3.0000000	34
35 AA-AS-P	38	0	34	0	0	0	64	0	10.000000	70.000000	35
36 AA-ZN-P	0	0	0	0	0	0	136	0	20.000000	220.00000	36
37 AA-SB-P	49	0	41	0	0	0	46	0	2.0000000	80.000000	37

NO	COLUMN	Groom							NO
		K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	
1	X-COORD.	61103.891	511.18426	251309.35	14287256.	0.1059213	-0.74924310+10	-1.4277791	1
2	Y-COORD.	412133.40	23409.473	5.48003440+E	-1.49311470+14	-11.639069	4.07345490+19	135.64267	2
3	S-FEZ	2.2551471	1.1998037	1.4395289	5.6876489	3.2930795	31.920704	15.403936	3
4	S-MGZ	1.1161765	0.9871186	0.9744030	3.0413303	3.1619546	12.185029	12.833624	4
5	S-CAZ	2.6323529	2.2835606	5.2146492	16.518220	1.3871620	38.992042	1.4339228	5
6	S-TIZ	0.3889706	0.1541634	0.2237663	0.0040980	1.1184814	0.0012635	2.2368821	6
7	S-MN	467.64706	190.47012	36278.867	28673261.	4.1495071	4.04617200+10	30.742339	7
8	S-AG	6.5000000	4.9497475	24.500000					8
9	S-AS								9
10	S-AU								10
11	S-B	42.796796	19.640073	385.73245	8762.5883	1.1566531	188172.06	1.2646862	11
12	S-BA	575.00000	198.41968	39370.370	10335323.	1.320304	4.82488830+00	3.1127788	12
13	S-RE	1.0384615	0.2169102	0.3470500	0.0785485	7.6955848	0.1473842	65.578025	13
14	S-BI								14
15	S-CD								15
16	S-CO	7.0109890	3.6101539	13.033211	179.39076	3.8126148	3292.9379	19.385664	16
17	S-CR	40.294118	30.146339	908.80174	72572.744	2.6489260	6845533.5	8.2883675	17
18	S-CU	11.830882	8.9720184	80.497113	5559.5892	7.6978996	464911.54	71.747985	18
19	S-LA	52.279412	21.703965	471.06209	18062.084	1.7666504	1155975.3	5.2094542	19
20	S-MO	5.0000000							20
21	S-NB								21
22	S-NI	11.897059	5.2185984	27.233769	140.95852	0.9918128	1072.1704	1.4456006	22
23	S-PB	186.76471	1412.6288	1995520.2	2.68104630+10	9.5108674	3.77351360+14	94.761880	23
24	S-SB	100.00000							24
25	S-SC	6.5714286	1.8760279	3.5194805	20.803559	3.1507924	235.50896	19.012985	25
26	S-SN								26
27	S-SR	194.07407	63.201876	3994.4721	488913.41	1.9366131	1.10775500+08	6.9426444	27
28	S-V	43.786765	27.416515	751.66531	59859.594	2.9046714	6311426.4	11.170652	28
29	S-W								29
30	S-Y	19.081882	6.6999781	44.889706	897.94929	2.9856003	23324.350	11.574367	30
31	S-ZH	220.00000	44.721360	2000.0000	200000.00	2.2360680	20000000.	5.0000000	31
32	S-ZP	199.63235	97.763191	9557.6416	1036187.0	1.1089502	1.70660040+08	1.8682301	32
33	S-TH								33
34	INST-HS	0.0791071	0.2927519	0.3857077	0.2333704	9.3013579	0.6734925	91.692454	34
35	AA-AS-P	12.656250	9.7983133	96.006944	4286.7623	4.5565371	203777.21	22.103704	35
36	AA-ZN-P	55.073529	40.897276	1672.5871	188533.22	2.7561621	20069703.	7.1740340	36
37	AA-SB-P	5.3043478	13.348108	178.17198	11728.331	4.9314780	790038.73	24.884829	37

NOTE: THE ABOVE STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY.

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

TITLE	INPUT ID	N	M	***** OPTIONS *****	OUTPUT ID	N	M
Groom	-js-1 -	136	35	1 0 1 1 0 0 0 C 0 0	- -	35	35

NUMBER OF SELECTED COLUMNS 35

SELECTED COLUMN INDICES										
1	2	3	4	5	6	7	8	9	10	11
11	12	13	14	15	16	17	18	19	20	21
21	22	23	24	25	26	27	28	29	30	31
31	32	33	34	35						

SELECTED COLUMN IDENTIFIERS									
S-FEX	S-MGZ	S-CAX	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-3A
S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-VI
S-PB	S-SB	S-SC	S-SM	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
S-TH	INST-HG	AA-AS-P	AA-ZN-P	AA-SB-P					

NUMBER OF SELECTED ROW PAIRS 1

SELECTED ROW PAIRS
1- 136

PHASE TWO RESULTS

W A R N I N G * * * THE RESULTS FROM THIS PHASE "SHOULD NOT" BE ENTERED INTO D0096-FACTOR ANALYSIS. THE CORRELATION MATRIX FROM THIS PHASE DOES NOT HAVE THE GRAMIAN PROPERTIES WHICH ARE REQUIRED FOR FACTOR ANALYSIS.

01 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

DAY OF MEANS -

	1	2	3	4	5	6	7	8	9	10
	S-FEZ	S-MGZ	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
S-FEZ	0.3131	0.3131	0.3131	0.3131	0.3131	0.3891	*****	*****	0.3090	0.3131
S-MGZ	-0.0517	-0.0517	-0.0517	-0.0517	-0.0517	0.0106	*****	*****	-0.0534	-0.0517
S-CAZ	0.2683	0.2683	0.2683	0.2683	0.2683	0.7720	*****	*****	0.2681	0.2683
S-TIZ	-0.4424	-0.4424	-0.4424	-0.4424	-0.4424	-0.3010	*****	*****	-0.4445	-0.4424
S-MN	2.6449	2.6449	2.6449	2.6449	2.6449	2.7720	*****	*****	2.6423	2.6449
S-AG	0.7386	0.7386	0.7386	0.7386	0.7386	0.7386	*****	*****	0.7386	0.7386
S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-B	1.5831	1.5831	1.5831	1.5831	1.5831	1.9225	*****	*****	1.5831	1.5831
S-BA	2.7362	2.7362	2.7362	2.7362	2.7362	2.7720	*****	*****	2.7365	2.7362
S-BE	0.0114	0.0114	0.0114	0.0114	0.0114	0.0000	*****	*****	0.0114	0.0114
S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-CO	0.8128	0.8128	0.8128	0.8128	0.8128	1.0880	*****	*****	0.8054	0.8128
S-CR	1.5293	1.5293	1.5293	1.5293	1.5293	1.6505	*****	*****	1.5236	1.5293
S-CU	1.0283	1.0283	1.0283	1.0283	1.0283	1.8495	*****	*****	1.0253	1.0283
S-LA	1.6864	1.6864	1.6864	1.6864	1.6864	1.6990	*****	*****	1.6879	1.6864
S-MO	0.6990	0.6990	0.6990	0.6990	0.6990	0.6990	*****	*****	0.6990	0.6990
S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-NI	1.0350	1.0350	1.0350	1.0350	1.0350	1.2386	*****	*****	1.0317	1.0350
S-PB	1.3891	1.3891	1.3891	1.3891	1.3891	4.0106	*****	*****	1.3907	1.3891
S-SB	2.0000	2.0000	2.0000	2.0000	2.0000	2.0000	*****	*****	2.0000	2.0000
S-SC	0.8043	0.8043	0.8043	0.8043	0.8043	0.9225	*****	*****	0.8028	0.8043
S-SH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-SR	2.2685	2.2685	2.2685	2.2685	2.2685	2.2386	*****	*****	2.2682	2.2685
S-V	1.5851	1.5851	1.5851	1.5851	1.5851	1.5880	*****	*****	1.5808	1.5851
S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-Y	1.2617	1.2617	1.2617	1.2617	1.2617	1.3010	*****	*****	1.2623	1.2617
S-ZN	2.3362	2.3362	2.3362	2.3362	2.3362	2.3891	*****	*****	2.3451	2.3362
S-ZR	2.2469	2.2469	2.2469	2.2469	2.2469	2.3891	*****	*****	2.2474	2.2469
S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
INST-HS	-1.4238	-1.4238	-1.4238	-1.4238	-1.4238	0.2108	*****	*****	-1.4276	-1.4238
AA-AS-P	1.0523	1.0523	1.0523	1.0523	1.0523	1.7236	*****	*****	1.0523	1.0523
AA-ZN-P	1.6734	1.6734	1.6734	1.6734	1.6734	2.3217	*****	*****	1.6699	1.6734
AA-SB-P	0.4311	0.4311	0.4311	0.4311	0.4311	1.8010	*****	*****	0.4311	0.4311

1101 CORRELATION ANALYSIS - USGS STATPAC (01/15/32)

DATE 7/10/85

ARRAY OF MEANS - CONT.

	11	12	13	14	15	16	17	18	19	20
	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI
1 S-FE%	0.2835	*****	*****	0.3771	0.3131	0.3131	0.3131	0.3010	*****	0.3131
2 S-MG%	-0.1075	*****	*****	-0.0865	-0.0517	-0.0517	-0.0517	-0.1549	*****	-0.0517
3 S-CA%	0.2088	*****	*****	0.2575	0.2683	0.2683	0.2683	0.6990	*****	0.2683
4 S-TI%	-0.4540	*****	*****	-0.3729	-0.4424	-0.4424	-0.4424	-0.3010	*****	-0.4424
5 S-MN	2.6449	*****	*****	2.6835	2.6449	2.6449	2.6449	2.6990	*****	2.6449
6 S-AG	0.7386	*****	*****	0.7386	0.7386	0.7386	0.7386	0.4771	*****	0.7386
7 S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-R	1.6038	*****	*****	1.5812	1.5831	1.5831	1.5831	1.8451	*****	1.5831
0 S-BA	2.7533	*****	*****	2.7741	2.7362	2.7362	2.7362	2.6990	*****	2.7362
1 S-DE	0.0114	*****	*****	0.0169	0.0114	0.0114	0.0114	0.0000	*****	0.0114
2 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3 S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
4 S-CO	0.8013	*****	*****	0.8128	0.8128	0.8128	0.8128	1.0000	*****	0.8128
5 S-CR	1.4892	*****	*****	1.6193	1.5293	1.5293	1.5293	1.3010	*****	1.5293
6 S-CU	1.0390	*****	*****	1.0789	1.0283	1.0283	1.0283	1.6990	*****	1.0283
7 S-LA	1.6967	*****	*****	1.6987	1.6864	1.6864	1.6864	1.6990	*****	1.6864
8 S-MO	0.6990	*****	*****	0.6990	0.6990	0.6990	0.6990	0.6990	*****	0.6990
9 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
0 S-NI	1.0302	*****	*****	1.1209	1.0350	1.0350	1.0350	1.1761	*****	1.0350
1 S-PB	1.4242	*****	*****	1.4359	1.3891	1.3891	1.3891	3.8451	*****	1.3891
2 S-SB	2.0000	*****	*****	2.0000	2.0000	2.0000	2.0000	*****	*****	2.0000
3 S-SC	0.7940	*****	*****	0.8481	0.8043	0.8043	0.8043	0.8451	*****	0.8043
4 S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
5 S-SR	2.2587	*****	*****	2.2617	2.2685	2.2685	2.2685	2.1761	*****	2.2685
6 S-V	1.5502	*****	*****	1.6621	1.5851	1.5851	1.5851	1.4771	*****	1.5851
7 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
8 S-Y	1.2664	*****	*****	1.3013	1.2617	1.2617	1.2617	1.3010	*****	1.2617
9 S-ZN	2.3597	*****	*****	2.3362	2.3362	2.3362	2.3362	2.3010	*****	2.3362
0 S-ZR	2.2567	*****	*****	2.2976	2.2469	2.2469	2.2469	2.4771	*****	2.2469
1 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2 INST-HG	-1.4121	*****	*****	-1.3945	-1.4238	-1.4238	-1.4238	-0.0555	*****	-1.4238
3 AA-AS-P	1.0684	*****	*****	1.0611	1.0523	1.0523	1.0523	1.8451	*****	1.0523
4 AA-ZN-P	1.6571	*****	*****	1.7298	1.6734	1.6734	1.6734	2.3010	*****	1.6734
5 AA-SR-P	0.4372	*****	*****	0.4804	0.4311	0.4311	0.4311	1.6990	*****	0.4311

CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

OF MEANS - CONT.

	21	22	23	24	25	26	27	28	29	30
	S-PE	S-SB	S-SC	S-SH	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
FE%	0.3131	0.4771	0.3156	*****	0.3132	0.3131	*****	0.3131	0.6644	0.3131
MG%	-0.0517	0.1761	-0.0606	*****	-0.0499	-0.0517	*****	-0.0517	0.0437	-0.0517
CAZ	0.2683	0.8451	0.2580	*****	0.2755	0.2683	*****	0.2683	0.4997	0.2683
TTX	-0.4424	-0.3010	-0.4357	*****	-0.4434	-0.4424	*****	-0.4424	-0.2116	-0.4424
MN	2.6449	2.8451	2.6484	*****	2.6445	2.6449	*****	2.6449	2.9380	2.6449
AG	0.7386	1.0000	0.7386	*****	0.7386	0.7386	*****	0.7386	0.7386	0.7386
AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
BA	1.5831	2.0000	1.5822	*****	1.5812	1.5831	*****	1.5831	1.6800	1.5831
RA	2.7362	2.8451	2.7404	*****	2.7365	2.7362	*****	2.7362	2.7574	2.7362
BE	0.0114	0.0000	0.0116	*****	0.0114	0.0114	*****	0.0114	0.0000	0.0114
BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
CO	0.8128	1.1761	0.8128	*****	0.8107	0.8128	*****	0.8128	1.1349	0.8128
CR	1.5293	2.0000	1.5345	*****	1.5281	1.5293	*****	1.5293	1.8158	1.5293
CU	1.0283	2.0000	1.0336	*****	1.0272	1.0283	*****	1.0283	1.4352	1.0283
LA	1.6864	1.6990	1.6891	*****	1.6879	1.6864	*****	1.6864	1.6102	1.6864
MO	0.6990	*****	0.6990	*****	0.6990	0.6990	*****	0.6990	0.6990	0.6990
NR	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
NI	1.0350	1.3010	1.0404	*****	1.0339	1.0350	*****	1.0350	1.2511	1.0350
PR	1.3891	4.1761	1.3930	*****	1.3898	1.3891	*****	1.3891	2.3349	1.3891
SB	2.0000	2.0000	2.0000	*****	2.0000	2.0000	*****	2.0000	2.0000	2.0000
SC	0.8043	1.0000	0.8043	*****	0.8028	0.8043	*****	0.8043	0.9088	0.8043
SH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
SR	2.2685	2.3010	2.2696	*****	2.2685	2.2685	*****	2.2685	2.3113	2.2685
V	1.5851	1.6990	1.5915	*****	1.5843	1.5851	*****	1.5851	1.9306	1.5851
W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
Y	1.2617	1.3010	1.2662	*****	1.2614	1.2617	*****	1.2617	1.2261	1.2617
ZN	2.3362	2.4771	2.3362	*****	2.3362	2.3362	*****	2.3362	2.3362	2.3362
ZR	2.2469	2.3010	2.2586	*****	2.2465	2.2469	*****	2.2469	2.2511	2.2469
TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
ST-HG	-1.4238	0.4771	-1.4213	*****	-1.4238	-1.4238	*****	-1.4238	-0.5693	-1.4238
-AS-P	1.0523	1.6021	1.0523	*****	1.0523	1.0523	*****	1.0523	1.4824	1.0523
-ZN-P	1.6734	2.3424	1.6782	*****	1.6739	1.6734	*****	1.6734	2.2999	1.6734
-SB-P	0.4311	1.9031	0.4311	*****	0.4311	0.4311	*****	0.4311	1.8010	0.4311

0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

ARRAY OF MEANS - CONT.

	31	32	33	34	35
	S-TH	INST-HG	AA-AS-P	AA-ZN-P	AA-SR-P
1 S-FEX	*****	0.3351	0.3135	0.3131	0.2957
2 S-MGZ	*****	-0.0751	-0.0126	-0.0517	-0.0054
3 S-CAZ	*****	0.2400	0.3117	0.2683	0.3528
4 S-TI% *****	*****	-0.4421	-0.4274	-0.4424	-0.4406
5 S-HN	*****	2.6458	2.6307	2.6449	2.6217
6 S-AG	*****	0.7386	0.7386	0.7386	0.7386
7 S-AS	*****	*****	*****	*****	*****
8 S-AU	*****	*****	*****	*****	*****
9 S-B	*****	1.5822	1.6360	1.5831	1.6724
10 S-BA	*****	2.7439	2.7493	2.7362	2.7054
11 S-BE	*****	0.0130	0.0108	0.0114	0.0049
12 S-BI	*****	*****	*****	*****	*****
13 S-CD	*****	*****	*****	*****	*****
14 S-CO	*****	0.8195	0.8231	0.8128	0.7901
15 S-CR	*****	1.5089	1.5479	1.5293	1.5734
16 S-CU	*****	1.0371	1.0714	1.0283	1.0726
17 S-LA	*****	1.6950	1.6523	1.6864	1.6399
18 S-MO	*****	0.6990	0.6990	0.6990	0.6990
19 S-NB	*****	*****	*****	*****	*****
20 S-NI	*****	1.0301	1.0770	1.0350	1.0608
21 S-PB	*****	1.4076	1.4558	1.3891	1.4764
22 S-SB	*****	2.0000	2.0000	2.0000	2.0000
23 S-SC	*****	0.7959	0.8072	0.8043	0.8018
24 S-SN	*****	*****	*****	*****	*****
25 S-SR	*****	2.2620	2.2690	2.2685	2.2298
26 S-V	*****	1.5739	1.5924	1.5851	1.5715
27 S-W	*****	*****	*****	*****	*****
28 S-Y	*****	1.2535	1.2537	1.2617	1.2536
29 S-ZH	*****	2.3451	2.3597	2.3362	2.3891
30 S-ZR	*****	2.2445	2.2457	2.2469	2.2699
31 S-TH	*****	*****	*****	*****	*****
32 INST-HG	*****	-1.4238	-1.3321	-1.4238	-1.3049
33 AA-AS-P	*****	1.0520	1.0523	1.0523	1.0985
34 AA-ZN-P	*****	1.6715	1.6721	1.6734	1.6954
35 AA-SB-P	*****	0.4380	0.4770	0.4311	0.4311

CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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OF VARIANCES -

	1	2	3	4	5	6	7	8	9	10
	S-FEZ	S-PGZ	S-CAZ	S-TIX	S-MN	S-AG	S-AS	S-AJ	S-B	S-BA
-FEZ	0.031	0.031	0.031	0.031	0.031	0.016	*****	*****	0.028	0.031
-MGZ	0.073	0.073	0.073	0.073	0.073	0.055	*****	*****	0.073	0.073
-CAZ	0.136	0.136	0.136	0.136	0.136	0.011	*****	*****	0.137	0.136
-TIX	0.029	0.029	0.029	0.029	0.029	0.000	*****	*****	0.028	0.029
-MN	0.020	0.020	0.020	0.020	0.020	0.011	*****	*****	0.019	0.020
-AG	0.137	0.137	0.137	0.137	0.137	0.137	*****	*****	0.137	0.137
-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-AJ	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-R	0.038	0.038	0.038	0.038	0.038	0.012	*****	*****	0.038	0.038
-RA	0.020	0.020	0.020	0.020	0.020	0.011	*****	*****	0.020	0.020
-RE	0.003	0.003	0.003	0.003	0.003	0.000	*****	*****	0.003	0.003
-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-CO	0.023	0.023	0.023	0.023	0.023	0.016	*****	*****	0.018	0.023
-CR	0.055	0.055	0.055	0.055	0.055	0.244	*****	*****	0.051	0.055
-CU	0.029	0.029	0.029	0.029	0.029	0.045	*****	*****	0.029	0.029
-LA	0.027	0.027	0.027	0.027	0.027	0.000	*****	*****	0.027	0.027
-MO	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-LB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-NI	0.036	0.036	0.036	0.036	0.036	0.008	*****	*****	0.035	0.036
-PD	0.138	0.138	0.138	0.138	0.138	0.055	*****	*****	0.139	0.138
-SH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-SC	0.011	0.011	0.011	0.011	0.011	0.012	*****	*****	0.010	0.011
-SU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-SR	0.016	0.016	0.016	0.016	0.016	0.008	*****	*****	0.017	0.016
-V	0.043	0.043	0.043	0.043	0.043	0.025	*****	*****	0.041	0.043
-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-Y	0.015	0.015	0.015	0.015	0.015	0.000	*****	*****	0.015	0.015
-ZN	0.006	0.006	0.006	0.006	0.006	0.016	*****	*****	0.008	0.006
-ZR	0.051	0.051	0.051	0.051	0.051	0.016	*****	*****	0.051	0.051
-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
I-ST-HG	0.126	0.126	0.126	0.126	0.126	0.142	*****	*****	0.125	0.126
A-AS-P	0.028	0.028	0.028	0.028	0.028	0.030	*****	*****	0.028	0.028
A-ZN-P	0.046	0.046	0.046	0.046	0.046	0.001	*****	*****	0.044	0.046
A-SB-P	0.115	0.115	0.115	0.115	0.115	0.021	*****	*****	0.115	0.115

CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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OF VARIANCES - CONT.

	11	12	13	14	15	16	17	18	19	20
	S-BE	S-BI	S-CD	S-CC	S-CP	S-CU	S-LA	S-WO	S-VB	S-VI
-FEZ	0.021	*****	*****	0.028	0.031	0.031	0.031	0.031	*****	0.031
-MG#	0.052	*****	*****	0.051	0.073	0.073	0.073	0.073	*****	0.073
-CAZ	0.118	*****	*****	0.114	0.136	0.136	0.136	0.136	*****	0.136
-TIZ	0.024	*****	*****	0.019	0.029	0.029	0.029	0.029	*****	0.029
-MN	0.017	*****	*****	0.019	0.020	0.020	0.020	0.020	*****	0.020
-AG	0.137	*****	*****	0.137	0.137	0.137	0.137	0.137	*****	0.137
-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-H	0.033	*****	*****	0.040	0.038	0.038	0.038	0.038	*****	0.038
-RA	0.019	*****	*****	0.018	0.020	0.020	0.020	0.020	*****	0.020
-RE	0.003	*****	*****	0.005	0.003	0.003	0.003	0.003	*****	0.003
-RI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-CO	0.015	*****	*****	0.023	0.023	0.023	0.023	0.023	*****	0.023
-CR	0.036	*****	*****	0.054	0.055	0.055	0.055	0.055	*****	0.055
-CU	0.031	*****	*****	0.029	0.029	0.029	0.029	0.029	*****	0.029
-LA	0.022	*****	*****	0.027	0.027	0.027	0.027	0.027	*****	0.027
-PO	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-IB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-NI	0.034	*****	*****	0.025	0.036	0.036	0.036	0.036	*****	0.036
-PB	0.171	*****	*****	0.195	0.138	0.138	0.138	0.138	*****	0.138
-SR	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-SC	0.008	*****	*****	0.009	0.011	0.011	0.011	0.011	*****	0.011
-SH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-SR	0.016	*****	*****	0.018	0.016	0.016	0.016	0.016	*****	0.016
-V	0.026	*****	*****	0.038	0.043	0.043	0.043	0.043	*****	0.043
-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
-Y	0.012	*****	*****	0.014	0.015	0.015	0.015	0.015	*****	0.015
-ZN	0.010	*****	*****	0.006	0.006	0.006	0.006	0.006	*****	0.006
-ZR	0.044	*****	*****	0.038	0.051	0.051	0.051	0.051	*****	0.051
-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
IST-HG	0.137	*****	*****	0.156	0.126	0.126	0.126	0.126	*****	0.126
I-AS-P	0.035	*****	*****	0.036	0.028	0.028	0.028	0.028	*****	0.028
I-ZN-P	0.032	*****	*****	0.052	0.046	0.046	0.046	0.046	*****	0.046
I-SB-P	0.140	*****	*****	0.160	0.115	0.115	0.115	0.115	*****	0.115

1 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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Y OF VARIANCES - CONT.

	21	22	23	24	25	26	27	28	29	30
	S-PR	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
S-FEZ	0.031	*****	0.031	*****	0.031	0.031	*****	0.031	0.078	0.031
S-MGZ	0.073	*****	0.068	*****	0.073	0.073	*****	0.073	0.033	0.073
S-CAZ	0.136	*****	0.133	*****	0.130	0.136	*****	0.136	0.076	0.136
S-TIZ	0.029	*****	0.027	*****	0.029	0.029	*****	0.029	0.019	0.029
S-MN	0.020	*****	0.019	*****	0.020	0.020	*****	0.020	0.053	0.020
S-AG	0.137	*****	0.137	*****	0.137	0.137	*****	0.137	0.137	0.137
S-AS	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-R	0.038	*****	0.038	*****	0.038	0.038	*****	0.038	0.128	0.038
S-BA	0.020	*****	0.020	*****	0.020	0.020	*****	0.020	0.006	0.020
S-RE	0.003	*****	0.003	*****	0.003	0.003	*****	0.003	0.000	0.003
S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-CD	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-CO	0.023	*****	0.023	*****	0.023	0.023	*****	0.023	0.056	0.023
S-CR	0.055	*****	0.055	*****	0.056	0.055	*****	0.055	0.171	0.055
S-CU	0.029	*****	0.028	*****	0.029	0.029	*****	0.029	0.166	0.029
S-LA	0.027	*****	0.027	*****	0.027	0.027	*****	0.027	0.015	0.027
S-MO	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-HB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-NI	0.036	*****	0.035	*****	0.036	0.036	*****	0.036	0.031	0.036
S-PB	0.138	*****	0.141	*****	0.139	0.138	*****	0.138	2.356	0.138
S-SB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-SC	0.011	*****	0.011	*****	0.010	0.011	*****	0.011	0.018	0.011
S-SN	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-SR	0.016	*****	0.017	*****	0.016	0.016	*****	0.016	0.012	0.016
S-V	0.043	*****	0.042	*****	0.044	0.043	*****	0.043	0.115	0.043
S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-Y	0.015	*****	0.014	*****	0.015	0.015	*****	0.015	0.005	0.015
S-ZN	0.006	*****	0.006	*****	0.006	0.006	*****	0.006	0.006	0.006
S-ZR	0.051	*****	0.045	*****	0.051	0.051	*****	0.051	0.031	0.051
S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
INST-HG	0.126	*****	0.126	*****	0.126	0.126	*****	0.126	0.940	0.126
IA-AS-P	0.028	*****	0.028	*****	0.028	0.028	*****	0.028	0.189	0.028
IA-ZN-P	0.046	*****	0.046	*****	0.047	0.046	*****	0.046	0.001	0.046
IA-SB-P	0.115	*****	0.115	*****	0.115	0.115	*****	0.115	0.021	0.115

DO101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

ARRAY OF VARIANCES - CONT.

	31	32	33	34	35
	S-TH	INST-HG	AA-AS-P	AA-ZN-F	AA-SR-P
1 S-FEX	*****	0.027	0.019	0.031	0.021
2 S-MG%	*****	0.062	0.077	0.073	0.088
3 S-CAZ	*****	0.114	0.151	0.136	0.155
4 S-TIX	*****	0.026	0.027	0.029	0.032
5 S-MN	*****	0.018	0.015	0.020	0.015
6 S-AG	*****	0.137	0.137	0.137	0.137
7 S-AS	*****	*****	*****	*****	*****
8 S-AU	*****	*****	*****	*****	*****
9 S-B	*****	0.036	0.045	0.038	0.040
10 S-BA	*****	0.020	0.024	0.020	0.019
11 S-BE	*****	0.004	0.002	0.003	0.001
12 S-BI	*****	*****	*****	*****	*****
13 S-CD	*****	*****	*****	*****	*****
14 S-CO	*****	0.024	0.021	0.023	0.021
15 S-CR	*****	0.049	0.049	0.055	0.066
16 S-CU	*****	0.030	0.031	0.029	0.041
17 S-LA	*****	0.024	0.024	0.027	0.023
18 S-MO	*****	*****	*****	*****	*****
19 S-NB	*****	*****	*****	*****	*****
20 S-NI	*****	0.035	0.029	0.036	0.034
21 S-PB	*****	0.162	0.263	0.138	0.358
22 S-SB	*****	*****	*****	*****	*****
23 S-SC	*****	0.011	0.009	0.011	0.011
24 S-SN	*****	*****	*****	*****	*****
25 S-SR	*****	0.014	0.022	0.016	0.015
26 S-V	*****	0.036	0.034	0.043	0.036
27 S-W	*****	*****	*****	*****	*****
28 S-Y	*****	0.012	0.011	0.015	0.015
29 S-ZN	*****	0.008	0.010	0.006	0.016
30 S-ZR	*****	0.049	0.045	0.051	0.046
31 S-TH	*****	*****	*****	*****	*****
32 INST-HG	*****	0.126	0.191	0.124	0.233
33 AA-AS-P	*****	0.032	0.028	0.028	0.048
34 AA-ZN-P	*****	0.041	0.049	0.046	0.063
35 AA-SB-P	*****	0.133	0.149	0.115	0.115

DO101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
1 (S-FE%)	)	2 (S-MG%)	) 0.0734	136
1 (S-FE%)	)	3 (S-CA%)	) 0.1017	136
1 (S-FE%)	)	4 (S-TI%)	) 0.6459	136
1 (S-FE%)	)	5 (S-MN)	) 0.6411	136
1 (S-FE%)	)	6 (S-AG)	) 1.0000	2
1 (S-FE%)	)	7 (S-AS)	) *****	0
1 (S-FE%)	)	8 (S-AJ)	) *****	0
1 (S-FE%)	)	9 (S-B)	) -0.1405	135
1 (S-FE%)	)	10 (S-BA)	) 0.2881	136
1 (S-FE%)	)	11 (S-BE)	) 0.0971	104
1 (S-FE%)	)	12 (S-BI)	) *****	0
1 (S-FE%)	)	13 (S-CD)	) *****	0
1 (S-FE%)	)	14 (S-CD)	) 0.4436	91
1 (S-FE%)	)	15 (S-CR)	) 0.6563	136
1 (S-FE%)	)	16 (S-CU)	) 0.3268	136
1 (S-FE%)	)	17 (S-LA)	) 0.1053	136
1 (S-FE%)	)	18 (S-MO)	) *****	1
1 (S-FE%)	)	19 (S-NB)	) *****	0
1 (S-FE%)	)	20 (S-NI)	) 0.4818	136
1 (S-FE%)	)	21 (S-PE)	) 0.1187	136
1 (S-FE%)	)	22 (S-SB)	) *****	1
1 (S-FE%)	)	23 (S-SC)	) 0.5941	133
1 (S-FE%)	)	24 (S-SN)	) *****	0
1 (S-FE%)	)	25 (S-SR)	) 0.2772	135
1 (S-FE%)	)	26 (S-V)	) 0.7510	136
1 (S-FE%)	)	27 (S-W)	) *****	0
1 (S-FE%)	)	28 (S-Y)	) 0.3854	136
1 (S-FE%)	)	29 (S-ZN)	) -0.3740	5
1 (S-FE%)	)	30 (S-ZR)	) 0.3433	136
1 (S-FE%)	)	31 (S-TH)	) *****	0
1 (S-FE%)	)	32 (INST-HG)	) 0.1866	112
1 (S-FE%)	)	33 (AA-AS-P)	) 0.0848	64
1 (S-FE%)	)	34 (AA-ZN-P)	) 0.5938	136
1 (S-FE%)	)	35 (AA-SB-P)	) 0.1650	46
2 (S-MG%)	)	3 (S-CA%)	) 0.7686	136
2 (S-MG%)	)	4 (S-TI%)	) -0.2917	136
2 (S-MG%)	)	5 (S-MN)	) -0.2059	136
2 (S-MG%)	)	6 (S-AG)	) 1.0000	2
2 (S-MG%)	)	7 (S-AS)	) *****	0
2 (S-MG%)	)	8 (S-AU)	) *****	0
2 (S-MG%)	)	9 (S-B)	) -0.0670	135
2 (S-MG%)	)	10 (S-BA)	) -0.3164	136
2 (S-MG%)	)	11 (S-BE)	) -0.0007	104
2 (S-MG%)	)	12 (S-BI)	) *****	0
2 (S-MG%)	)	13 (S-CD)	) *****	0
2 (S-MG%)	)	14 (S-CD)	) 0.0882	91
2 (S-MG%)	)	15 (S-CR)	) 0.0757	136
2 (S-MG%)	)	16 (S-CU)	) -0.0872	136
2 (S-MG%)	)	17 (S-LA)	) 0.3811	136
2 (S-MG%)	)	18 (S-MO)	) *****	1

00101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
2 (S-MGZ )	)	19 (S-V3)	*****	0
2 (S-MGZ )	)	20 (S-NI)	-0.0621	136
2 (S-MGZ )	)	21 (S-PB)	-0.0305	136
2 (S-MGZ )	)	22 (S-SB)	*****	1
2 (S-MGZ )	)	23 (S-SC)	-0.0876	133
2 (S-MGZ )	)	24 (S-SN)	*****	0
2 (S-MGZ )	)	25 (S-SR)	0.1674	135
2 (S-MGZ )	)	26 (S-V)	-0.1211	136
2 (S-MGZ )	)	27 (S-W)	*****	0
2 (S-MGZ )	)	28 (S-Y)	-0.3738	136
2 (S-MGZ )	)	29 (S-ZN)	0.4087	5
2 (S-MGZ )	)	30 (S-ZR)	-0.2555	136
2 (S-MGZ )	)	31 (S-TH)	*****	0
2 (S-MGZ )	)	32 (INST-HG)	0.0688	112
2 (S-MGZ )	)	33 (AA-AS-P)	-0.0251	64
2 (S-MGZ )	)	34 (AA-ZN-P)	-0.1291	136
2 (S-MGZ )	)	35 (AA-SB-P)	0.1347	46
3 (S-CAZ )	)	4 (S-TIX)	-0.3236	136
3 (S-CAZ )	)	5 (S-MN)	-0.1251	136
3 (S-CAZ )	)	6 (S-AG)	1.0000	2
3 (S-CAZ )	)	7 (S-AS)	*****	0
3 (S-CAZ )	)	8 (S-AU)	*****	0
3 (S-CAZ )	)	9 (S-F)	-0.0722	135
3 (S-CAZ )	)	10 (S-BA)	-0.3130	136
3 (S-CAZ )	)	11 (S-BE)	0.0135	104
3 (S-CAZ )	)	12 (S-BI)	*****	0
3 (S-CAZ )	)	13 (S-CD)	*****	0
3 (S-CAZ )	)	14 (S-CD)	-0.0062	91
3 (S-CAZ )	)	15 (S-CR)	0.0735	136
3 (S-CAZ )	)	16 (S-CU)	-0.0356	136
3 (S-CAZ )	)	17 (S-LA)	-0.2581	136
3 (S-CAZ )	)	18 (S-MO)	*****	1
3 (S-CAZ )	)	19 (S-N3)	*****	0
3 (S-CAZ )	)	20 (S-NI)	0.0130	136
3 (S-CAZ )	)	21 (S-PR)	0.1304	136
3 (S-CAZ )	)	22 (S-SB)	*****	1
3 (S-CAZ )	)	23 (S-SC)	-0.0583	133
3 (S-CAZ )	)	24 (S-SN)	*****	0
3 (S-CAZ )	)	25 (S-SR)	0.1620	135
3 (S-CAZ )	)	26 (S-V)	-0.1122	136
3 (S-CAZ )	)	27 (S-W)	*****	0
3 (S-CAZ )	)	28 (S-Y)	-0.2522	136
3 (S-CAZ )	)	29 (S-ZN)	0.7008	5
3 (S-CAZ )	)	30 (S-ZR)	-0.2567	136
3 (S-CAZ )	)	31 (S-TH)	*****	0
3 (S-CAZ )	)	32 (INST-HG)	0.0880	112
3 (S-CAZ))	33 (AA-AS-P)	0.1754	64
3 (S-CAZ))	34 (AA-ZN-P)	0.0376	136
3 (S-CAZ))	35 (AA-SB-P)	0.3221	46
4 (S-TIX))	5 (S-MN)	0.5279	136

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
4 (S-TIX))	6 (S-AG)	*****	2
4 (S-TIX))	7 (S-AS)	*****	0
4 (S-TIX )	)	8 (S-AU)	*****	0
4 (S-TIX )	)	9 (S-B)	-0.0101	135
4 (S-TIX )	)	10 (S-BA)	0.3373	136
4 (S-TIX )	)	11 (S-BE)	0.1545	104
4 (S-TIX )	)	12 (S-BI)	*****	0
4 (S-TIX )	)	13 (S-CD)	*****	0
4 (S-TIX )	)	14 (S-CO)	0.2438	91
4 (S-TIX )	)	15 (S-CR)	0.5051	136
4 (S-TIX )	)	16 (S-CU)	0.4276	136
4 (S-TIX )	)	17 (S-LA)	0.2494	136
4 (S-TIX )	)	18 (S-MO)	*****	1
4 (S-TIX )	)	19 (S-NB)	*****	0
4 (S-TIX )	)	20 (S-NI)	0.4789	136
4 (S-TIX )	)	21 (S-PB)	0.1368	136
4 (S-TIX )	)	22 (S-SB)	*****	1
4 (S-TIX )	)	23 (S-SC)	0.5754	133
4 (S-TIX )	)	24 (S-SY)	*****	0
4 (S-TIX )	)	25 (S-SR)	0.1569	135
4 (S-TIX )	)	26 (S-V)	0.7994	136
4 (S-TIX )	)	27 (S-W)	*****	0
4 (S-TIX )	)	28 (S-Y)	0.5224	136
4 (S-TIX )	)	29 (S-ZN)	-0.3727	5
4 (S-TIX )	)	30 (S-ZR)	0.5592	136
4 (S-TIX )	)	31 (S-TH)	*****	0
4 (S-TIX )	)	32 (INST-HG)	0.2664	112
4 (S-TIX )	)	33 (AA-AS-F)	0.0594	64
4 (S-TIX )	)	34 (AA-ZN-F)	0.5265	136
4 (S-TIX )	)	35 (AA-SB-P)	0.1932	46
5 (S-MN )	)	6 (S-AG)	1.0000	2
5 (S-MN )	)	7 (S-AS)	*****	0
5 (S-MN )	)	8 (S-AU)	*****	0
5 (S-MN )	)	9 (S-B)	-0.0856	135
5 (S-MN )	)	10 (S-BA)	0.2659	136
5 (S-MN )	)	11 (S-BE)	0.0321	104
5 (S-MN )	)	12 (S-BI)	*****	0
5 (S-MN )	)	13 (S-CD)	*****	0
5 (S-MN )	)	14 (S-CO)	0.3191	91
5 (S-MN )	)	15 (S-CR)	0.3901	136
5 (S-MN )	)	16 (S-CU)	0.2463	136
5 (S-MN )	)	17 (S-LA)	0.3210	136
5 (S-MN )	)	18 (S-MO)	*****	1
5 (S-MN )	)	19 (S-NB)	*****	0
5 (S-MN )	)	20 (S-NI)	0.2497	136
5 (S-MN))	21 (S-PB)	0.1773	136
5 (S-MN))	22 (S-SB)	*****	1
5 (S-MN))	23 (S-SC)	0.3668	133
5 (S-MN))	24 (S-SN)	*****	0
5 (S-MN))	25 (S-SR)	0.0974	135

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
5 (S-MN))	26 (S-V)	0.5675	136
5 (S-MN )	)	27 (S-W)	*****	0
5 (S-MN )	)	28 (S-Y)	0.3503	136
5 (S-MN )	)	29 (S-ZV)	-0.2267	5
5 (S-MN )	)	30 (S-ZR)	0.2969	136
5 (S-MN )	)	31 (S-TH)	*****	0
5 (S-MN )	)	32 (INST-HG)	0.0747	112
5 (S-MN )	)	33 (AA-AS-P)	0.1428	64
5 (S-MN )	)	34 (AA-ZN-P)	0.6128	136
5 (S-MN )	)	35 (AA-SB-P)	0.1729	46
6 (S-AG )	)	7 (S-AS)	*****	0
6 (S-AG )	)	8 (S-AU)	*****	0
6 (S-AG )	)	9 (S-B)	1.0000	2
6 (S-AG )	)	10 (S-BA)	1.0000	2
6 (S-AG )	)	11 (S-BE)	*****	2
6 (S-AG )	)	12 (S-BI)	*****	0
6 (S-AG )	)	13 (S-CD)	*****	0
6 (S-AG )	)	14 (S-CO)	1.0000	2
6 (S-AG )	)	15 (S-CR)	1.0000	2
6 (S-AG )	)	16 (S-CU)	1.0000	2
6 (S-AG )	)	17 (S-LA)	*****	2
6 (S-AG )	)	18 (S-MO)	*****	1
6 (S-AG )	)	19 (S-NB)	*****	0
6 (S-AG )	)	20 (S-NI)	1.0000	2
6 (S-AG )	)	21 (S-OB)	1.0000	2
6 (S-AG )	)	22 (S-SB)	*****	1
6 (S-AG )	)	23 (S-SC)	1.0000	2
6 (S-AG )	)	24 (S-SN)	*****	0
6 (S-AG )	)	25 (S-SR)	1.0000	2
6 (S-AG )	)	26 (S-V)	1.0000	2
6 (S-AG )	)	27 (S-W)	*****	0
6 (S-AG )	)	28 (S-Y)	*****	2
6 (S-AG )	)	29 (S-ZV)	1.0000	2
6 (S-AG )	)	30 (S-ZR)	-1.0000	2
6 (S-AG )	)	31 (S-TH)	*****	0
6 (S-AG )	)	32 (INST-HG)	1.0000	2
6 (S-AG )	)	33 (AA-AS-P)	-1.0000	2
6 (S-AG )	)	34 (AA-ZN-P)	1.0000	2
6 (S-AG )	)	35 (AA-SB-P)	1.0000	2
7 (S-AS )	)	8 (S-AU)	*****	0
7 (S-AS )	)	9 (S-B)	*****	0
7 (S-AS )	)	10 (S-BA)	*****	0
7 (S-AS )	)	11 (S-BE)	*****	0
7 (S-AS )	)	12 (S-BI)	*****	0
7 (S-AS))	13 (S-CD)	*****	0
7 (S-AS))	14 (S-CO)	*****	0
7 (S-AS))	15 (S-CR)	*****	0
7 (S-AS))	16 (S-CU)	*****	0
7 (S-AS))	17 (S-LA)	*****	0
7 (S-AS))	18 (S-MO)	*****	0

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DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
7 (S-AS))	19 (S-NQ)	*****	0
7 (S-AS )	)	20 (S-NI)	*****	0
7 (S-AS )	)	21 (S-PB)	*****	0
7 (S-AS )	)	22 (S-SB)	*****	0
7 (S-AS )	)	23 (S-SC)	*****	0
7 (S-AS )	)	24 (S-SH)	*****	0
7 (S-AS )	)	25 (S-SR)	*****	0
7 (S-AS )	)	26 (S-V)	*****	0
7 (S-AS )	)	27 (S-W)	*****	0
7 (S-AS )	)	28 (S-Y)	*****	0
7 (S-AS )	)	29 (S-ZN)	*****	0
7 (S-AS )	)	30 (S-ZR)	*****	0
7 (S-AS )	)	31 (S-TH)	*****	0
7 (S-AS )	)	32 (INST-HG)	*****	0
7 (S-AS )	)	33 (AA-AS-P)	*****	0
7 (S-AS )	)	34 (AA-ZN-P)	*****	0
7 (S-AS )	)	35 (AA-SB-P)	*****	0
8 (S-AU )	)	9 (S-B)	*****	0
8 (S-AU )	)	10 (S-BA)	*****	0
8 (S-AU )	)	11 (S-BE)	*****	0
8 (S-AU )	)	12 (S-BI)	*****	0
8 (S-AU )	)	13 (S-CD)	*****	0
8 (S-AU )	)	14 (S-CO)	*****	0
8 (S-AU )	)	15 (S-CR)	*****	0
8 (S-AU )	)	16 (S-CU)	*****	0
8 (S-AU )	)	17 (S-LA)	*****	0
8 (S-AU )	)	18 (S-MO)	*****	0
8 (S-AU )	)	19 (S-NB)	*****	0
8 (S-AU )	)	20 (S-NI)	*****	0
8 (S-AU )	)	21 (S-PB)	*****	0
8 (S-AU )	)	22 (S-SB)	*****	0
8 (S-AU )	)	23 (S-SC)	*****	0
8 (S-AU )	)	24 (S-SH)	*****	0
8 (S-AU )	)	25 (S-SR)	*****	0
8 (S-AU )	)	26 (S-V)	*****	0
8 (S-AU )	)	27 (S-W)	*****	0
8 (S-AU )	)	28 (S-Y)	*****	0
8 (S-AU )	)	29 (S-ZN)	*****	0
8 (S-AU )	)	30 (S-ZR)	*****	0
8 (S-AU )	)	31 (S-TH)	*****	0
8 (S-AU )	)	32 (INST-HG)	*****	0
8 (S-AU )	)	33 (AA-AS-P)	*****	0
8 (S-AU )	)	34 (AA-ZN-P)	*****	0
8 (S-AU )	)	35 (AA-SB-P)	*****	0
9 (S-B )	)	10 (S-BA)	-0.0854	135
9 (S-B))	11 (S-BE)	0.0031	104
9 (S-B))	12 (S-BI)	*****	0
9 (S-B))	13 (S-CD)	*****	0
9 (S-B))	14 (S-CO)	0.1309	90
9 (S-B))	15 (S-CR)	0.0954	135

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
9 (S-B))	16 (S-CJ)	0.4543	135
9 (S-B )	)	17 (S-LA)	-0.2079	135
9 (S-B )	)	18 (S-WO)	*****	1
9 (S-B )	)	19 (S-NB)	*****	0
9 (S-B )	)	20 (S-NI)	0.2657	135
9 (S-B )	)	21 (S-PB)	0.2545	135
9 (S-B )	)	22 (S-SB)	*****	1
9 (S-B )	)	23 (S-SC)	0.0647	132
9 (S-B )	)	24 (S-SN)	*****	0
9 (S-B )	)	25 (S-SR)	-0.5126	134
9 (S-B )	)	26 (S-V)	-0.1669	135
9 (S-B )	)	27 (S-W)	*****	0
9 (S-B )	)	28 (S-Y)	0.0906	135
9 (S-B )	)	29 (S-ZV)	0.5963	4
9 (S-B )	)	30 (S-ZR)	-0.0331	135
9 (S-B )	)	31 (S-TH)	*****	0
9 (S-B )	)	32 (INST-HG)	0.2435	111
9 (S-B )	)	33 (AA-AS-P)	0.3490	64
9 (S-B )	)	34 (AA-ZN-P)	-0.0115	135
9 (S-B )	)	35 (AA-SB-P)	0.2602	46
10 (S-BA )	)	11 (S-BE)	-0.0157	104
10 (S-BA )	)	12 (S-BI)	*****	0
10 (S-BA )	)	13 (S-CD)	*****	0
10 (S-BA )	)	14 (S-CC)	0.1953	91
10 (S-BA )	)	15 (S-CP)	0.1980	136
10 (S-BA )	)	16 (S-CU)	0.2852	136
10 (S-BA )	)	17 (S-LA)	0.2855	136
10 (S-BA )	)	18 (S-WO)	*****	1
10 (S-BA )	)	19 (S-NB)	*****	0
10 (S-BA )	)	20 (S-VI)	0.2793	136
10 (S-BA )	)	21 (S-PB)	0.1693	136
10 (S-BA )	)	22 (S-SB)	*****	1
10 (S-BA )	)	23 (S-SC)	0.3032	133
10 (S-BA )	)	24 (S-SN)	*****	0
10 (S-BA )	)	25 (S-SR)	0.4071	135
10 (S-BA )	)	26 (S-V)	0.2110	136
10 (S-BA )	)	27 (S-W)	*****	0
10 (S-BA )	)	28 (S-Y)	0.2307	136
10 (S-BA )	)	29 (S-ZN)	0.6124	5
10 (S-BA )	)	30 (S-ZR)	0.2850	136
10 (S-BA )	)	31 (S-TH)	*****	0
10 (S-BA )	)	32 (INST-HG)	0.1383	112
10 (S-BA )	)	33 (AA-AS-P)	0.0278	64
10 (S-BA )	)	34 (AA-ZN-P)	0.0266	136
10 (S-BA )	)	35 (AA-SB-P)	0.0715	46
11 (S-BE )	)	12 (S-BI)	*****	0
11 (S-BE )	)	13 (S-CD)	*****	0
11 (S-BE )	)	14 (S-CC)	0.0924	70
11 (S-BE))	15 (S-CP)	0.0221	104
11 (S-BE))	16 (S-CU)	0.0966	104

00101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
11 (S-BE))	17 (S-LA)	-0.1179	104
11 (S-BE )	)	18 (S-MO)	*****	1
11 (S-BE )	)	19 (S-MB)	*****	0
11 (S-BE )	)	20 (S-NI)	0.2342	104
11 (S-BE )	)	21 (S-PB)	0.0884	104
11 (S-BE )	)	22 (S-SB)	*****	1
11 (S-BE )	)	23 (S-SC)	0.1179	102
11 (S-BE )	)	24 (S-SN)	*****	0
11 (S-BE )	)	25 (S-SR)	0.0079	104
11 (S-BE )	)	26 (S-V)	0.0321	104
11 (S-BE )	)	27 (S-W)	*****	0
11 (S-BE )	)	28 (S-Y)	0.1096	104
11 (S-BE )	)	29 (S-ZN)	*****	3
11 (S-BE )	)	30 (S-ZR)	0.1320	104
11 (S-BE )	)	31 (S-TH)	*****	0
11 (S-BE )	)	32 (INST-HG)	-0.0286	91
11 (S-BE )	)	33 (AA-AS-P)	-0.0938	49
11 (S-BE )	)	34 (AA-ZN-P)	0.0406	104
11 (S-BE )	)	35 (AA-SB-P)	-0.0625	36
12 (S-BI )	)	13 (S-CD)	*****	0
12 (S-BI )	)	14 (S-CD)	*****	0
12 (S-BI )	)	15 (S-CP)	*****	0
12 (S-BI )	)	16 (S-CU)	*****	0
12 (S-BI )	)	17 (S-LA)	*****	0
12 (S-BI )	)	18 (S-MO)	*****	0
12 (S-BI )	)	19 (S-MB)	*****	0
12 (S-BI )	)	20 (S-NI)	*****	0
12 (S-BI )	)	21 (S-PB)	*****	0
12 (S-BI )	)	22 (S-SB)	*****	0
12 (S-BI )	)	23 (S-SC)	*****	0
12 (S-BI )	)	24 (S-SN)	*****	0
12 (S-BI )	)	25 (S-SR)	*****	0
12 (S-BI )	)	26 (S-V)	*****	0
12 (S-BI )	)	27 (S-W)	*****	0
12 (S-BI )	)	28 (S-Y)	*****	0
12 (S-BI )	)	29 (S-ZN)	*****	0
12 (S-BI )	)	30 (S-ZR)	*****	0
12 (S-BI )	)	31 (S-TH)	*****	0
12 (S-BI )	)	32 (INST-HG)	*****	0
12 (S-BI )	)	33 (AA-AS-P)	*****	0
12 (S-BI )	)	34 (AA-ZN-P)	*****	0
12 (S-BI )	)	35 (AA-SB-P)	*****	0
13 (S-CD )	)	14 (S-CD)	*****	0
13 (S-CD )	)	15 (S-CP)	*****	0
13 (S-CD))	16 (S-CU)	*****	0
13 (S-CD))	17 (S-LA)	*****	0
13 (S-CD))	18 (S-MO)	*****	0
13 (S-CD))	19 (S-MB)	*****	0
13 (S-CD))	20 (S-NI)	*****	0
13 (S-CD))	21 (S-PB)	*****	0

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
13 (S-CD))	22 (S-SR)	*****	0
13 (S-CD))	23 (S-SC)	*****	0
13 (S-CD )	)	24 (S-SN)	*****	0
13 (S-CD )	)	25 (S-SR)	*****	0
13 (S-CD )	)	26 (S-V)	*****	0
13 (S-CD )	)	27 (S-W)	*****	0
13 (S-CD )	)	28 (S-Y)	*****	0
13 (S-CD )	)	29 (S-ZN)	*****	0
13 (S-CD )	)	30 (S-ZR)	*****	0
13 (S-CD )	)	31 (S-TH)	*****	0
13 (S-CD )	)	32 (INST-HG)	*****	0
13 (S-CD )	)	33 (AA-AS-P)	*****	0
13 (S-CD )	)	34 (AA-ZN-P)	*****	0
13 (S-CD )	)	35 (AA-SB-P)	*****	0
14 (S-CO )	)	15 (S-CR)	0.525R	91
14 (S-CO )	)	16 (S-CU)	0.5701	91
14 (S-CO )	)	17 (S-LA)	-0.0666	91
14 (S-CO )	)	18 (S-MO)	*****	1
14 (S-CO )	)	19 (S-NB)	*****	0
14 (S-CO )	)	20 (S-NI)	0.5930	91
14 (S-CO )	)	21 (S-PB)	0.2760	91
14 (S-CO )	)	22 (S-SB)	*****	1
14 (S-CO )	)	23 (S-SC)	0.5856	91
14 (S-CO )	)	24 (S-SN)	*****	0
14 (S-CO )	)	25 (S-SR)	0.2132	90
14 (S-CO )	)	26 (S-V)	0.3139	91
14 (S-CO )	)	27 (S-W)	*****	0
14 (S-CO )	)	28 (S-Y)	-0.0140	91
14 (S-CO )	)	29 (S-ZH)	0.0976	5
14 (S-CO )	)	30 (S-ZR)	-0.0352	91
14 (S-CO )	)	31 (S-TH)	*****	0
14 (S-CO )	)	32 (INST-HG)	0.3496	72
14 (S-CO )	)	33 (AA-AS-P)	0.2851	45
14 (S-CO )	)	34 (AA-ZN-P)	0.3618	91
14 (S-CO )	)	35 (AA-SB-P)	0.4824	30
15 (S-CR )	)	16 (S-CJ)	0.4421	136
15 (S-CR )	)	17 (S-LA)	-0.0568	136
15 (S-CR )	)	18 (S-MO)	*****	1
15 (S-CR )	)	19 (S-NB)	*****	0
15 (S-CR )	)	20 (S-NI)	0.6996	136
15 (S-CR )	)	21 (S-PB)	0.1209	136
15 (S-CR )	)	22 (S-SB)	*****	1
15 (S-CR )	)	23 (S-SC)	0.7314	133
15 (S-CR )	)	24 (S-SN)	*****	0
15 (S-CR )	)	25 (S-SR)	0.1289	135
15 (S-CR )	)	26 (S-V)	0.6183	136
15 (S-CR))	27 (S-W)	*****	0
15 (S-CR))	28 (S-Y)	0.3160	136
15 (S-CR))	29 (S-ZN)	0.2491	5
15 (S-CR))	30 (S-ZR)	0.2186	136

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
15 (S-CR))	31 (S-TH)	*****	0
15 (S-CR))	32 (INST-HG)	0.2125	112
15 (S-CR )	)	33 (AA-AS-P)	-0.0018	64
15 (S-CR )	)	34 (AA-ZH-P)	0.4202	136
15 (S-CR )	)	35 (AA-SB-P)	0.0659	46
16 (S-CU )	)	17 (S-LA)	-0.0702	136
16 (S-CU )	)	18 (S-MO)	*****	1
16 (S-CU )	)	19 (S-NB)	*****	0
16 (S-CU )	)	20 (S-NI)	0.6522	136
16 (S-CU )	)	21 (S-PB)	0.6504	136
16 (S-CU )	)	22 (S-SB)	*****	1
16 (S-CU )	)	23 (S-SC)	0.4817	133
16 (S-CU )	)	24 (S-SH)	*****	0
16 (S-CU )	)	25 (S-SP)	-0.0993	135
16 (S-CU )	)	26 (S-V)	0.2999	136
16 (S-CU )	)	27 (S-W)	*****	0
16 (S-CU )	)	28 (S-Y)	0.2230	136
16 (S-CU )	)	29 (S-ZV)	0.7754	5
16 (S-CU )	)	30 (S-ZR)	0.2585	136
16 (S-CU )	)	31 (S-TH)	*****	0
16 (S-CU )	)	32 (INST-HG)	0.5610	112
16 (S-CU )	)	33 (AA-AS-P)	0.6295	64
16 (S-CU )	)	34 (AA-ZH-P)	0.3665	136
16 (S-CU )	)	35 (AA-SB-P)	0.7366	46
17 (S-LA )	)	18 (S-MO)	*****	1
17 (S-LA )	)	19 (S-NB)	*****	0
17 (S-LA )	)	20 (S-NI)	-0.1641	136
17 (S-LA )	)	21 (S-PB)	0.0903	136
17 (S-LA )	)	22 (S-SB)	*****	1
17 (S-LA )	)	23 (S-SC)	0.0839	133
17 (S-LA )	)	24 (S-SH)	*****	0
17 (S-LA )	)	25 (S-SP)	0.2261	135
17 (S-LA )	)	26 (S-V)	0.1631	136
17 (S-LA )	)	27 (S-W)	*****	0
17 (S-LA )	)	28 (S-Y)	0.3640	136
17 (S-LA )	)	29 (S-ZH)	0.4082	5
17 (S-LA )	)	30 (S-ZR)	0.2190	136
17 (S-LA )	)	31 (S-TH)	*****	0
17 (S-LA )	)	32 (INST-HG)	0.0425	112
17 (S-LA )	)	33 (AA-AS-P)	0.0771	64
17 (S-LA )	)	34 (AA-ZH-P)	0.2279	136
17 (S-LA )	)	35 (AA-SB-P)	0.1054	46
18 (S-MO )	)	19 (S-NB)	*****	0
18 (S-MO )	)	20 (S-NI)	*****	1
18 (S-MO )	)	21 (S-PB)	*****	1
18 (S-MO )	)	22 (S-SB)	*****	0
18 (S-MO )	)	23 (S-SC)	*****	1
18 (S-MO )	)	24 (S-SH)	*****	0
18 (S-MO )	)	25 (S-SP)	*****	1
18 (S-MO )	)	26 (S-V)	*****	1

D0101 CORRELATION ANALYSIS - USGS STATPAC (G1/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
18 (S-MO )	)	27 (S-W)	*****	0
18 (S-MO )	)	28 (S-Y)	*****	1
18 (S-MO )	)	29 (S-ZN)	*****	1
18 (S-MO )	)	30 (S-ZP)	*****	1
18 (S-MO )	)	31 (S-TH)	*****	0
18 (S-MO )	)	32 (INST-HG)	*****	1
18 (S-MO )	)	33 (AA-AS-P)	*****	1
18 (S-MO )	)	34 (AA-ZN-P)	*****	1
18 (S-MO )	)	35 (AA-SB-P)	*****	1
19 (S-NB )	)	20 (S-NI)	*****	0
19 (S-NB )	)	21 (S-PB)	*****	0
19 (S-NB )	)	22 (S-SB)	*****	0
19 (S-NB )	)	23 (S-SC)	*****	0
19 (S-NB )	)	24 (S-SN)	*****	0
19 (S-NB )	)	25 (S-SR)	*****	0
19 (S-NB )	)	26 (S-V)	*****	0
19 (S-NB )	)	27 (S-W)	*****	0
19 (S-NB )	)	28 (S-Y)	*****	0
19 (S-NB )	)	29 (S-ZN)	*****	0
19 (S-NB )	)	30 (S-ZR)	*****	0
19 (S-NB )	)	31 (S-TH)	*****	0
19 (S-NB )	)	32 (INST-HG)	*****	0
19 (S-NB )	)	33 (AA-AS-P)	*****	0
19 (S-NB )	)	34 (AA-ZN-P)	*****	0
19 (S-NB )	)	35 (AA-SB-P)	*****	0
20 (S-NI )	)	21 (S-PB)	0.2716	136
20 (S-NI )	)	22 (S-SB)	*****	1
20 (S-NI )	)	23 (S-SC)	0.6867	133
20 (S-NI )	)	24 (S-SN)	*****	0
20 (S-NI )	)	25 (S-SR)	0.0371	135
20 (S-NI )	)	26 (S-V)	0.4756	136
20 (S-NI )	)	27 (S-W)	*****	0
20 (S-NI )	)	28 (S-Y)	0.3587	136
20 (S-NI )	)	29 (S-ZN)	0.1582	5
20 (S-NI )	)	30 (S-ZR)	0.3011	136
20 (S-NI )	)	31 (S-TH)	*****	0
20 (S-NI )	)	32 (INST-HG)	0.2752	112
20 (S-NI )	)	33 (AA-AS-P)	0.1670	64
20 (S-NI )	)	34 (AA-ZN-P)	0.3097	136
20 (S-NI )	)	35 (AA-SB-P)	0.3093	46
21 (S-PB )	)	22 (S-SB)	*****	1
21 (S-PB )	)	23 (S-SC)	0.1792	133
21 (S-PB )	)	24 (S-SN)	*****	0
21 (S-PB )	)	25 (S-SR)	-0.0017	135
21 (S-PB )	)	26 (S-V)	0.0295	136
21 (S-PB )	)	27 (S-W)	*****	0
21 (S-PB )	)	28 (S-Y)	0.1189	136
21 (S-PB )	)	29 (S-ZN)	0.5705	5
21 (S-PB )	)	30 (S-ZR)	0.1396	136
21 (S-PB )	)	31 (S-TH)	*****	0

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
21 (S-PB )	)	32 (INST-HG)	0.5093	112
21 (S-PB )	)	33 (AA-AS-P)	0.7960	64
21 (S-PB )	)	34 (AA-ZN-P)	0.4577	136
21 (S-PB )	)	35 (AA-SB-P)	0.8624	46
22 (S-SR )	)	23 (S-SC)	*****	1
22 (S-SB )	)	24 (S-SN)	*****	0
22 (S-SB )	)	25 (S-SR)	*****	1
22 (S-SB )	)	26 (S-V)	*****	1
22 (S-SB )	)	27 (S-W)	*****	0
22 (S-SB )	)	28 (S-Y)	*****	1
22 (S-SB )	)	29 (S-ZN)	*****	1
22 (S-SB )	)	30 (S-ZR)	*****	1
22 (S-SB )	)	31 (S-TH)	*****	0
22 (S-SB )	)	32 (INST-HG)	*****	1
22 (S-SB )	)	33 (AA-AS-P)	*****	1
22 (S-SB )	)	34 (AA-ZN-P)	*****	1
22 (S-SB )	)	35 (AA-SB-P)	*****	1
23 (S-SC )	)	24 (S-SN)	*****	0
23 (S-SC )	)	25 (S-SR)	0.1878	132
23 (S-SC )	)	26 (S-V)	0.5836	133
23 (S-SC )	)	27 (S-W)	*****	0
23 (S-SC )	)	28 (S-Y)	0.5333	133
23 (S-SC )	)	29 (S-ZN)	0.3772	5
23 (S-SC )	)	30 (S-ZR)	0.2904	133
23 (S-SC )	)	31 (S-TH)	*****	0
23 (S-SC )	)	32 (INST-HG)	0.2661	111
23 (S-SC )	)	33 (AA-AS-P)	0.1327	64
23 (S-SC )	)	34 (AA-ZN-P)	0.4292	133
23 (S-SC )	)	35 (AA-SB-P)	0.2368	46
24 (S-SN )	)	25 (S-SR)	*****	0
24 (S-SN )	)	26 (S-V)	*****	0
24 (S-SN )	)	27 (S-W)	*****	0
24 (S-SN )	)	28 (S-Y)	*****	0
24 (S-SN )	)	29 (S-ZN)	*****	0
24 (S-SN )	)	30 (S-ZR)	*****	0
24 (S-SN )	)	31 (S-TH)	*****	0
24 (S-SN )	)	32 (INST-HG)	*****	0
24 (S-SN )	)	33 (AA-AS-P)	*****	0
24 (S-SN )	)	34 (AA-ZN-P)	*****	0
24 (S-SN )	)	35 (AA-SB-P)	*****	0
25 (S-SR )	)	26 (S-V)	0.2283	135
25 (S-SR )	)	27 (S-W)	*****	0
25 (S-SR )	)	28 (S-Y)	-0.0162	135
25 (S-SR )	)	29 (S-ZN)	-0.0533	5
25 (S-SR )	)	30 (S-ZR)	-0.0418	135
25 (S-SR )	)	31 (S-TH)	*****	0
25 (S-SR )	)	32 (INST-HG)	0.1264	112
25 (S-SR )	)	33 (AA-AS-P)	-0.1365	64
25 (S-SR )	)	34 (AA-ZN-P)	0.0802	135
25 (S-SR )	)	35 (AA-SB-P)	0.0940	46

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERVSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
26 (S-Y )	)	27 (S-W)	*****	0
26 (S-V )	)	28 (S-Y)	0.4179	136
26 (S-V )	)	29 (S-ZN)	-0.3812	5
26 (S-V )	)	30 (S-ZR)	0.4557	136
26 (S-V )	)	31 (S-TH)	*****	0
26 (S-V )	)	32 (INST-HG)	0.2088	112
26 (S-V )	)	33 (AA-AS-P)	-0.0160	64
26 (S-V )	)	34 (AA-ZN-P)	0.6099	136
26 (S-V )	)	35 (AA-SB-P)	0.1115	46
27 (S-W )	)	28 (S-Y)	*****	0
27 (S-W )	)	29 (S-ZN)	*****	0
27 (S-W )	)	30 (S-ZR)	*****	0
27 (S-W )	)	31 (S-TH)	*****	0
27 (S-W )	)	32 (INST-HG)	*****	0
27 (S-W )	)	33 (AA-AS-P)	*****	0
27 (S-W )	)	34 (AA-ZN-P)	*****	0
27 (S-W )	)	35 (AA-SB-P)	*****	0
28 (S-Y )	)	29 (S-ZN)	0.6124	5
28 (S-Y )	)	30 (S-ZR)	0.5005	136
28 (S-Y )	)	31 (S-TH)	*****	0
28 (S-Y )	)	32 (INST-HG)	0.1112	112
28 (S-Y )	)	33 (AA-AS-P)	0.0271	64
28 (S-Y )	)	34 (AA-ZN-P)	0.2886	136
28 (S-Y )	)	35 (AA-SB-P)	0.0587	46
29 (S-ZN )	)	30 (S-ZR)	0.1582	5
29 (S-ZN )	)	31 (S-TH)	*****	0
29 (S-ZN )	)	32 (INST-HG)	0.7195	4
29 (S-ZN )	)	33 (AA-AS-P)	0.2387	3
29 (S-ZN )	)	34 (AA-ZN-P)	0.6894	5
29 (S-ZN )	)	35 (AA-SB-P)	1.0000	2
30 (S-ZR )	)	31 (S-TH)	*****	0
30 (S-ZR )	)	32 (INST-HG)	0.1649	112
30 (S-ZR )	)	33 (AA-AS-P)	0.1705	64
30 (S-ZR )	)	34 (AA-ZN-P)	0.2470	136
30 (S-ZR )	)	35 (AA-SB-P)	0.0477	46
31 (S-TH )	)	32 (INST-HG)	*****	0
31 (S-TH )	)	33 (AA-AS-P)	*****	0
31 (S-TH )	)	34 (AA-ZN-P)	*****	0
31 (S-TH )	)	35 (AA-SB-P)	*****	0
32 (INST-HG )	)	33 (AA-AS-P)	0.7222	54
32 (INST-HG )	)	34 (AA-ZN-P)	0.3818	112
32 (INST-HG )	)	35 (AA-SB-P)	0.8737	38
33 (AA-AS-P )	)	34 (AA-ZN-P)	0.5994	64
33 (AA-AS-P )	)	35 (AA-SB-P)	0.7949	34
34 (AA-ZN-P )	)	35 (AA-SB-P)	0.5849	46

0C36 GRAPHICAL ANALYSIS - U S S STATPAC (02/07/82)

DATE 7/10/85

TITLE	INPUT ID	N	M	***** OPTIONS *****
room	-ds-1	136	35	1 0 0 0 2 1 0 0 0 0

- VARIABLE NO. 7 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 8 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 12 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 13 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- THE MAX AND MIN 0.69897E+00 FOR VARIABLE NO. 18 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 19 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- THE MAX AND MIN 0.20000E+01 FOR VARIABLE NO. 22 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 24 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 27 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 31 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

REQUENCY TABLE FOR VARIABLE 1 (S-FEX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOP FREQ (NORMAL DIST)	(THEOP FREQ - OBS FREQ)**2/THEOP FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.09	0.09
2.500E-01 - 8.333E-02	1	1	0.74	0.74	1.56	0.20
8.333E-02 - 8.333E-02	10	11	7.35	8.09	11.32	0.17
8.333E-02 - 2.500E-01	26	37	19.12	27.21	35.93	2.74
2.500E-01 - 4.167E-01	65	102	47.79	75.00	49.24	5.05
4.167E-01 - 5.833E-01	26	128	19.12	94.12	29.34	0.38
5.833E-01 - 7.500E-01	5	133	3.68	97.79	7.58	0.88
7.500E-01 - 9.167E-01	2	135	1.47	99.26	0.84	1.58
9.167E-01 - 1.083E+00	1	136	0.74	100.00	0.04	22.46
G	0	136	0.00	100.00	0.09	0.09
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

ISTOGRAM FOR VARIABLE 1 (S-FEX)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

6.813E-01 x
1.000E+00 xxxxxxx
1.468E+00 xxxxxxxxxxxxxxxxxxxxxxx
2.154E+00 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
3.162E+00 xxxxxxxxxxxxxxxxxxxxxxx
4.642E+00 xxxx
6.813E+00 x
1.000E+01 x

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 7.00000E-01
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 2.05633E+00
GEOMETRIC DEVIATION = 1.49946E+00
VARIANCE OF LOGS = 3.09533E-02

```

PERCENT TABLE FOR VARIABLE 1 (S-FEX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	5.474375E-01	3.527260E+00
95.00	6.233351E-01	4.200830E+00
98.00	7.733354E-01	5.933833E+00

98.00 6.25551E-01 4.20083E+00
98.00 7.73354E-01 5.93383E+00

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 2 (S-MGX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	3.29	3.29
-5.840E-01 - -4.173E-01	4	4	2.94	2.94	8.62	2.48
-4.173E-01 - -2.507E-01	36	40	26.47	29.41	19.41	14.17
-2.507E-01 - -8.400E-02	38	78	27.94	57.35	30.20	2.02
-8.400E-02 - 8.267E-02	22	100	16.18	73.53	32.44	3.36
8.267E-02 - 2.493E-01	12	112	8.82	82.35	24.07	6.05
2.493E-01 - 4.160E-01	16	128	11.76	94.12	12.74	1.09
4.160E-01 - 5.827E-01	4	132	2.94	97.06	4.76	0.03
5.827E-01 - 7.493E-01	3	135	2.21	99.26	1.07	3.51
7.493E-01 - 9.160E-01	1	136	0.74	100.00	0.20	3.15
G	0	136	0.00	100.00	3.29	3.29
H	0	136				
B	0	136				

TOTALS LESS H AND P 136

HISTOGRAM FOR VARIABLE 2 (S-MGX)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

3.157E-01 xxx
4.634E-01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
6.802E-01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
9.985E-01 xxxxxxxxxxxxxxxxxxxxxxx
1.466E+00 xxxxxxxxxx
2.151E+00 xxxxxxxxxxxxxxx
3.157E+00 xxx
4.634E+00 xx
6.803E+00 x

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 3.00000E-01
MAXIMUM ANTILOG = 7.00000E+00
GEOMETRIC MEAN = 8.87715E-01
GEOMETRIC DEVIATION = 1.86060E+00
VARIANCE OF LOGS = 7.27130E-02

```

PERCENT TABLE FOR VARIABLE 2 (S-MGX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.576685E-01	2.278607E+00

95.00
98.00

4.660021E-01
6.537833E-01

2.924166E+00
4.535887E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 3 (S-CAZ)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.39	0.39
-7.500E-01 - -5.833E-01	1	1	0.74	0.74	1.03	0.00
-5.833E-01 - -4.167E-01	2	3	1.47	2.71	2.88	0.27
-4.167E-01 - -2.500E-01	7	10	5.15	7.35	6.58	0.03
-2.500E-01 - -8.333E-02	11	21	8.09	15.44	12.27	0.13
-8.333E-02 - 8.333E-02	26	47	19.12	34.56	18.74	2.82
8.333E-02 - 2.500E-01	28	75	20.59	55.15	23.41	0.90
2.500E-01 - 4.167E-01	15	90	11.03	56.18	23.93	3.33
4.167E-01 - 5.833E-01	8	98	5.88	72.06	20.02	7.22
5.833E-01 - 7.500E-01	27	125	19.85	91.91	13.70	12.90
7.500E-01 - 9.167E-01	7	132	5.15	97.06	7.67	0.06
9.167E-01 - 1.083E+00	4	136	2.94	100.00	5.37	0.35
G	0	136	0.00	100.00	0.39	0.39
H	0	136				
R	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 3 (S-CAZ)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E-01 X
3.162E-01 X
4.642E-01 XXXXX
6.813E-01 XXXXXXXX
1.000E+00 XXXXXXXXXXXXXXXXXXXX
1.468E+00 XXXXXXXXXXXXXXXXXXXX
2.154E+00 XXXXXXXXXXXXX
3.162E+00 XXXXXX
4.642E+00 XXXXXXXXXXXXXXXXXXXX
6.813E+00 XXXXX
1.000E+01 XXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E-01
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 1.85501E+00
GEOMETRIC DEVIATION = 2.33872E+00
VARIANCE OF LOGS = 1.36144E-01

```

PERCENT TABLE FOR VARIABLE 3 (S-CAZ) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED
PERCENTILE

DATA VALUE ANTI LOG OF VALUE

90.00	7.339535E-01	5.419430E+00
95.00	8.500032E-01	7.079510E+00
98.00	1.000000E+35	1.000000E+35

DD036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 4 (S-TIX)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOP FREQ (NORMAL DIST)	(THEOP FREQ - OBS FREQ)**2/THEOP FREQ
LOWER	UPPER						
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
-1.084E+00	-9.173E-01	1	1	0.74	0.74	0.01	0.01
-9.173E-01	-7.507E-01	2	3	1.47	2.21	0.33	1.35
-7.507E-01	-5.840E-01	14	17	10.29	12.50	4.32	1.25
-5.840E-01	-4.173E-01	61	78	44.85	57.35	22.73	3.35
-4.173E-01	-2.507E-01	49	127	36.03	93.38	48.61	3.16
-2.507E-01	-8.400E-02	7	134	5.15	98.57	42.50	0.99
-8.400E-02	8.267E-02	2	136	1.47	100.00	15.17	4.40
	G	0	136	0.00	100.00	2.33	0.05
	H	0	136			0.01	0.01
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 4 (S-TIX)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E-02 X
1.466E-01 X
2.151E-01 XXXXXXXXXXXX
3.157E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E-01 XXXXX
9.985E-01 X
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E-01
MAXIMUM ANTILOG = 1.00000E+00
GEOMETRIC MEAN = 3.61093E-01
GEOMETRIC DEVIATION = 1.47667E+00
VARIANCE OF LOGS = 2.86519E-02
    
```

PERCENT TABLE FOR VARIABLE 4 (S-TIX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-2.663113E-01	5.416125E-01
95.00	-1.982870E-01	6.334554E-01
98.00	-1.011409E-01	7.922443E-01

DOC36 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 5 (S-MH)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THFOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.36	0.36
2.250E+00 - 2.417E+00	1	1	0.74	0.74	6.91	5.05
2.417E+00 - 2.583E+00	44	45	32.35	33.09	37.85	1.00
2.583E+00 - 2.750E+00	77	122	56.62	89.71	59.74	4.99
2.750E+00 - 2.917E+00	11	133	8.09	97.79	27.41	9.82
2.917E+00 - 3.083E+00	2	135	1.47	99.26	3.60	0.71
3.083E+00 - 3.250E+00	0	135	0.00	99.26	0.00	0.00
3.250E+00 - 3.417E+00	1	136	0.74	100.00	0.13	5.65
G	0	136	0.00	100.00	0.36	0.36
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 5 (S-MH)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+02 X
3.162E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+02 XXXXXXXXX
1.000E+03 X
1.462E+03
2.154E+03 X
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+02
MAXIMUM ANTILOG = 2.00000E+03
GEOMETRIC MEAN = 4.41512E+02
GEOMETRIC DEVIATION = 1.38537E+00
VARIANCE OF LOGS = 2.00409E-02
    
```

PERCENT TABLE FOR VARIABLE 5 (S-MH) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.756052E+00	5.702452E+02
95.00	2.859092E+00	7.229231E+02
98.00	2.940001E+00	8.709663E+02

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FREQUENCY TABLE FOR VARIABLE 6 (S-AG)

LOG LIMITS		OBS FREQ	CJM FRFQ	PERCENT FREQ	PERCENT CJM FRFQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	133	133	97.79	97.79		
	L	1	134	0.74	98.53		
	T	0	134	0.00	98.53	0.00	0.00
4.160E-01	- 5.827E-01	1	135	0.74	99.26	0.00	0.00
5.827E-01	- 7.493E-01	0	135	0.00	99.26	0.00	0.00
7.493E-01	- 9.160E-01	0	135	0.00	99.26	0.00	0.00
9.160E-01	- 1.083E+00	1	136	0.74	100.00	136.00	134.01
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 6 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

3.157E+00 X
4.634E+00
6.802E+00
9.985E+00 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 3.00000E+00
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 5.47723E+00
GEOMETRIC DEVIATION = 2.34278E+00
VARIANCE OF LOGS = 1.36701E-01

PERCENT TABLE FOR VARIABLE 6 (S-AG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 9 (S-B)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	1	1	0.74	0.74		
T	0	1	0.00	0.74	0.06	0.06
9.160E-01 - 1.023E+00	1	2	0.74	1.47	0.23	0.03
1.083E+00 - 1.249E+00	4	6	2.94	4.41	5.89	0.60
1.249E+00 - 1.416E+00	10	16	7.35	11.76	21.50	6.15
1.416E+00 - 1.583E+00	58	74	42.65	54.41	40.75	7.30
1.583E+00 - 1.749E+00	41	115	30.15	84.56	40.14	0.02
1.749E+00 - 1.916E+00	15	130	11.03	95.59	20.55	1.50
1.916E+00 - 2.083E+00	6	136	4.41	100.00	6.27	0.01
G	0	136	0.00	100.00	0.00	0.00
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 9 (S-B)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 X
1.466E+01 XXX
2.151E+01 XXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXX
9.985E+01 XXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 3.82936E+01
GEOMETRIC DEVIATION = 1.56518E+00
VARIANCE OF LOGS = 3.78549E-02

```

PERCENT TABLE FOR VARIABLE 9 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.231557E+00	6.785118E+01
95.00	1.907113E+00	8.074453E+01
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 10 (S-BA)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CUM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
		0	0	0.00	0.00		
		0	0	0.00	0.00		
		0	0	0.00	0.00	1.67	1.67
2.416E+00	2.583E+00	18	18	13.24	13.24	17.44	0.02
2.583E+00	2.749E+00	71	89	52.21	55.44	53.89	5.44
2.749E+00	2.916E+00	34	123	25.00	70.44	48.94	4.56
2.916E+00	3.083E+00	12	135	8.82	99.26	13.04	0.08
3.083E+00	3.249E+00	1	136	0.74	100.00	1.02	0.00
		0	136	0.00	100.00	1.67	1.67
		0	136				
		0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 10 (S-FA) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

3.157E+02 XXXXXXXXXXXXX
4.634E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.802E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.985E+02 XXXXXXXXX
1.466E+03 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 3.00000E+02
MAXIMUM ANTILOG = 1.50000E+03
GEOMETRIC MEAN = 5.44765E+02
GEOMETRIC DEVIATION = 1.38810E+00
VARIANCE OF LOGS = 2.02836E-02

```

PERCENT TABLE FOR VARIABLE 10 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.91306E+00	8.185776E+02
95.00	3.002112E+00	1.004876E+03
98.00	3.058779E+00	1.144930E+03

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FREQUENCY TABLE FOR VARIABLE 11 (S-BE)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	H	1	1	0.74	0.74		
	L	31	32	22.79	23.53		
	T	0	32	0.00	23.53		
-8.400E-02	- 8.267E-02	99	131	72.79	96.32	4.44	4.44
8.267E-02	- 2.493E-01	4	135	2.94	99.26	121.95	4.32
2.493E-01	- 4.160E-01	0	135	0.00	99.26	0.00	0.00
4.160E-01	- 5.827E-01	1	136	0.74	100.00	0.00	0.00
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 11 (S-BE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985F-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+00 XXX
2.151E+00
3.157F+00 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+00
MAXIMUM ANTILOG = 3.00000E+00
GEOMETRIC MEAN = 1.02650E+00
GEOMETRIC DEVIATION = 1.14105F+00
VARIANCE OF LOGS = 3.28403E-03

```

PERCENT TABLE FOR VARIABLE 11 (S-BE) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.776672E-01	1.505453E+00

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FREQUENCY TABLE FOR VARIABLE 14 (S-CO)

LOG LIMITS LOWER - UPPER	OPS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	9	9	6.62	6.62		
L	36	45	26.47	33.09		
T	0	45	0.00	33.09	10.61	10.61
5.830E-01 - 7.497E-01	46	91	33.82	66.91	47.24	0.03
7.497E-01 - 9.163E-01	29	120	21.32	98.24	57.93	14.44
9.163E-01 - 1.083E+00	11	131	8.09	96.32	18.65	3.14
1.083E+00 - 1.250E+00	3	134	2.21	98.53	1.54	1.39
1.250E+00 - 1.416E+00	1	135	0.74	99.26	0.00	0.00
1.416E+00 - 1.583E+00	1	136	0.74	100.00	0.03	29.95
G	0	136	0.00	100.00	0.00	0.00
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 14 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXX
1.467E+01 XX
2.153E+01 X
3.160E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 3.00000E+01
GEOMETRIC MEAN = 4.49865E+00
GEOMETRIC DEVIATION = 1.42002E+00
VARIANCE OF LOGS = 2.31934E-02

```

PERCENT TABLE FOR VARIABLE 14 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	9.526977E-01	8.958043E+00
95.00	1.055723E+00	1.136916E+01
98.00	1.209668E+00	1.620571E+01

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FREQUENCY TABLE FOR VARIABLE 15 (S-CR)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	H	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
1.083E+00	- 1.250E+00	4	4	2.94	2.94	3.95	
1.250E+00	- 1.416E+00	36	40	25.47	29.41	12.03	3.95
1.416E+00	- 1.583E+00	54	94	39.71	59.12	26.95	5.36
1.583E+00	- 1.750E+00	25	119	18.78	87.50	37.33	3.04
1.750E+00	- 1.916E+00	4	123	2.94	90.44	31.98	7.44
1.916E+00	- 2.083E+00	9	132	6.62	97.06	16.94	1.52
2.083E+00	- 2.250E+00	3	135	2.21	99.26	5.55	9.89
2.250E+00	- 2.416E+00	1	136	0.74	100.00	1.12	2.15
	G	0	136	0.00	100.00	0.15	3.15
	H	0	136	0.00	100.00	3.95	4.78
	B	0	136				3.95

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 15 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

1.467E+01 xxx
2.153E+01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
3.160E+01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
4.638E+01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
6.808E+01 xxx
9.992E+01 xxxxxxxx
1.467E+02 xx
2.153E+02 x
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.50000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 3.38328E+01
GEOMETRIC DEVIATION = 1.71976E+00
VARIANCE OF LOGS = 5.54455E-02
    
```

PERCENT TABLE FOR VARIABLE 15 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.891335E+00	7.786368E+01
95.00	2.031150E+00	1.074361E+02
98.00	2.154113E+00	1.425979E+02

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FREQUENCY TABLE FOR VARIABLE 16 (S-CU)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.60	0.60
5.830E-01 - 7.497E-01	6	6	4.41	4.41	6.27	0.01
7.497E-01 - 9.163E-01	22	28	16.18	20.59	27.80	1.21
9.163E-01 - 1.083E+00	67	95	49.26	69.85	50.49	5.40
1.083E+00 - 1.250E+00	35	130	25.74	95.59	37.73	0.20
1.250E+00 - 1.416E+00	4	134	2.94	98.53	11.58	4.96
1.416E+00 - 1.583E+00	0	134	0.00	98.53	1.45	1.45
1.583E+00 - 1.750E+00	1	135	0.74	99.26	0.07	11.73
1.750E+00 - 1.916E+00	0	135	0.00	99.26	0.00	0.00
1.916E+00 - 2.083E+00	1	136	0.74	100.00	0.00	669.36
G	0	136	0.00	100.00	0.60	0.60
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 16 (S-CU)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXX
6.808E+00 XXXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.153E+01 XXX
3.160E+01
4.638E+01 X
6.808E+01
9.992E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 1.06740E+01
GEOMETRIC DEVIATION = 1.47891E+00
VARIANCE OF LOGS = 2.88800E-02

```

PERCENT TABLE FOR VARIABLE 16 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.213477E+00	1.634848E+01



95.00
98.00

1.245858E+00
1.386335E+00

1.751402E+01
2.434081E+01

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FREQUENCY TABLE FOR VARIABLE 17 (S-LA)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.56	0.56
1.250E+00	1.417E+00	3	3	2.21	2.21	6.40	1.80
1.417E+00	1.583E+00	32	35	23.53	25.74	29.26	0.26
1.583E+00	1.750E+00	69	104	50.74	76.47	52.20	5.41
1.750E+00	1.917E+00	22	126	16.18	92.65	36.51	5.77
1.917E+00	2.083E+00	8	134	5.88	98.53	9.98	0.39
2.083E+00	2.250E+00	2	136	1.47	100.00	1.10	0.74
	G	0	136	0.00	100.00	0.56	0.56
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 17 (S-LA) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+01 XX
3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXX
1.000E+02 XXXXXX
1.468E+02 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 4.85685E+01
GEOMETRIC DEVIATION = 1.46240E+00
VARIANCE OF LOGS = 2.72465E-02

```

PERCENT TABLE FOR VARIABLE 17 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.889395E+00	7.751669E+01
95.00	1.983335E+00	9.523539E+01
98.00	2.068335E+00	1.170402E+02

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FREQUENCY TABLE FOR VARIABLE 2C (S-NI)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00		
5.830E-01	- 7.497E-C1	14	14	10.29	10.29	1.18	1.18
7.497E-01	- 9.163E-01	24	38	17.65	27.94	7.87	4.78
9.163E-01	- 1.083E+00	41	79	30.15	58.09	27.14	0.36
1.083E+00	- 1.250E+00	40	119	29.41	87.50	45.38	0.42
1.250E+00	- 1.416E+00	14	133	10.29	97.79	36.86	0.27
1.416E+00	- 1.583E+00	3	136	2.21	100.00	14.53	0.02
	G	0	136	0.00	100.00	3.04	0.00
	H	0	136			1.18	1.18
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 2C (S-NI) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXXXXXXXXX
6.809E+00 XXXXXXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.467E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.153E+01 XXXXXXXXXXX
3.160E+01 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 3.00000E+01
GEOMETRIC MEAN = 1.08388E+01
GEOMETRIC DEVIATION = 1.54858E+00
VARIANCE OF LOGS = 7.60744E-02

```

PERCENT TABLE FOR VARIABLE 2C (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991F 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.290144E+00	1.950492E+01
95.00	1.371097E+00	2.350157E+01
98.00	1.000000E+03	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 21 (S-PB)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	13.81	13.81
9.160E-01 - 1.083E+00	3	3	2.21	2.21	14.05	8.69
1.083E+00 - 1.249E+00	30	33	22.06	24.26	20.21	4.75
1.249E+00 - 1.416E+00	58	91	42.65	56.91	23.85	48.90
1.416E+00 - 1.583E+00	32	123	23.53	90.44	23.10	3.43
1.583E+00 - 1.749E+00	8	131	5.88	96.32	18.36	5.85
1.749E+00 - 1.916E+00	0	131	0.00	96.32	11.98	11.98
1.916E+00 - 2.083E+00	2	133	1.47	97.79	6.41	3.04
2.083E+00 - 2.249E+00	0	133	0.00	97.79	2.82	2.82
2.249E+00 - 2.416E+00	1	134	0.74	98.53	1.02	0.00
2.416E+00 - 2.583E+00	0	134	0.00	98.53	0.30	0.30
2.583E+00 - 2.749E+00	0	134	0.00	98.53	0.07	0.07
2.749E+00 - 2.916E+00	0	134	0.00	98.53	0.01	0.01
2.916E+00 - 3.083E+00	0	134	0.00	98.53	0.00	0.00
3.083E+00 - 3.249E+00	0	134	0.00	98.53	0.00	0.00
3.249E+00 - 3.416E+00	0	134	0.00	98.53	0.00	0.00
3.416E+00 - 3.583E+00	0	134	0.00	98.53	0.00	0.00
3.583E+00 - 3.749E+00	0	134	0.00	98.53	0.00	0.00
3.749E+00 - 3.916E+00	1	135	0.74	99.26	0.00	0.00
3.916E+00 - 4.083E+00	0	135	0.00	99.26	0.00	0.00
4.083E+00 - 4.249E+00	1	136	0.74	100.00	0.00	364.74
G	0	136	0.00	100.00	13.81	13.81
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 21 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XX
1.466E+01 XXXXXXXXXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.634E+01 XXXXXX
6.802E+01
9.985E+01 X
1.466E+02
2.151E+02 X
3.157E+02
4.635E+02
6.803E+02
9.985E+02
1.466E+03
2.151E+03
3.157E+03
4.635E+03
6.803E+03 X
    
```

9.985E+03
1.466E+04 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNJUSTIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.50000E+04
GEOMETRIC MEAN = 2.44991E+01
GEOMETRIC DEVIATION = 2.35379E+00
VARIANCE OF LOGS = 1.38212E-01

PERCENT TABLE FOR VARIABLE 21 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.579543E+00	3.797895E+01
95.00	1.711835E+00	5.150329E+01
98.00	2.176002E+00	1.499693E+02

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FREQUENCY TABLE FOR VARIABLE 23 (S-SC)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	3	3	2.21	2.21		
T	0	3	0.00	2.21	2.31	2.31
5.830E-01 - 7.497E-01	53	56	38.97	41.18	39.34	4.74
7.497E-01 - 9.163E-01	67	123	49.26	90.44	76.14	1.10
9.163E-01 - 1.083E+00	12	135	8.82	99.26	17.77	1.87
1.083E+00 - 1.250E+00	C	135	0.00	99.26	0.00	0.00
1.250E+00 - 1.416E+00	1	136	0.74	100.00	0.44	0.71
G	C	136	0.00	100.00	0.00	0.00
H	C	136				
B	C	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 23 (S-SC)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.636E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXXX
1.467E+01
2.153E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 2.00000E+01
GEOMETRIC MEAN = 6.37197E+00
GEOMETRIC DEVIATION = 1.26823E+00
VARIANCE OF LOGS = 1.06502E-02

```

PERCENT TABLE FOR VARIABLE 23 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	9.148415E-01	8.219425E+00
75.00	1.002445E+00	1.005646E+01
98.00	1.059112E+00	1.145809E+01

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FREQUENCY TABLE FOR VARIABLE 25 (S-SR)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	1	1	0.74	0.74		
	T	0	1	0.00	0.74	0.47	0.47
1.916E+00	- 2.083E+00	10	11	7.35	8.09	10.17	0.00
2.083E+00	- 2.249E+00	40	51	29.41	37.50	50.20	2.07
2.249E+00	- 2.416E+00	67	118	49.26	86.76	58.22	1.33
2.416E+00	- 2.583E+00	16	134	11.76	98.53	15.94	0.00
2.583E+00	- 2.749E+00	2	136	1.47	100.00	1.01	0.98
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	R	0	136				

TOTALS LESS H AND R 136

HISTOGRAM FOR VARIABLE 25 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+01 xxxxxxxx
1.466E+02 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
2.151E+02 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
3.157E+02 xxxxxxxxxxxx
4.634E+02 x

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 5.00000E+02
GEOMETRIC MEAN = 1.85557E+02
GEOMETRIC DEVIATION = 1.34322E+00
VARIANCE OF LOGS = 1.64219E-02

```

PERCENT TABLE FOR VARIABLE 25 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.461834E+00	2.896239E+02
95.00	2.532658E+00	3.409321E+02
98.00	2.575158E+00	3.759828E+02

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FREQUENCY TABLE FOR VARIABLE 26 (S-V)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	1.08	1.08
1.083E+00	- 1.250E+00	1	1	0.74	0.74	6.21	4.37
1.250E+00	- 1.416E+00	21	22	15.44	16.18	21.11	0.00
1.416E+00	- 1.583E+00	49	71	36.03	52.21	39.05	2.54
1.583E+00	- 1.750E+00	51	122	37.50	89.71	39.35	3.45
1.750E+00	- 1.916E+00	5	127	3.68	93.38	21.61	12.76
1.916E+00	- 2.083E+00	5	132	3.68	97.06	6.45	0.33
2.083E+00	- 2.250E+00	3	135	2.21	99.26	1.05	3.65
2.250E+00	- 2.416E+00	1	136	0.74	100.00	0.10	8.48
	G	0	136	0.00	100.00	1.08	1.08
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 26 (S-V) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

1.467E+01 X
2.153E+01 XXXXXXXXXXXXXXXX
3.160E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.638E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.808E+01 XXXX
9.992E+01 XXXX
1.467E+02 XX
2.153E+02 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.50000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 3.84715E+01
GEOMETRIC DEVIATION = 1.61521E+00
VARIANCE OF LOGS = 4.33594E-02

```

PERCENT TABLE FOR VARIABLE 26 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.763001E+00	5.774305E+01
95.00	1.989668E+00	9.754915E+01
98.00	2.154113E+00	1.425979E+02

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FREQUENCY TABLE FOR VARIABLE 28 (S-Y)

LOG LIMITS		CPS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.29	0.29
9.160E-01	1.083E+00	6	6	4.41	4.41	9.18	1.10
1.083E+00	1.249E+00	51	57	37.50	41.91	53.01	0.08
1.249E+00	1.416E+00	68	125	50.00	91.91	59.75	1.14
1.416E+00	1.583E+00	7	132	5.15	97.06	13.22	2.93
1.583E+00	1.749E+00	4	136	2.94	100.00	0.55	21.86
	G	0	136	0.00	100.00	0.29	0.29
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 28 (S-Y)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXX
1.466E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+01 XXXXX
4.634E+01 XXX
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 1.82669E+01
GEOMETRIC DEVIATION = 1.32158E+00
VARIANCE OF LOGS = 1.46632E-02
    
```

PERCENT TABLE FOR VARIABLE 28 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.409628E+00	2.563198E+01
95.00	1.516001E+00	3.280962E+01
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 29 (S-ZN)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	123	123	90.44	90.44		
	L	8	131	5.88	96.32		
	T	0	131	0.00	96.32	0.04	0.04
2.250E+00	- 2.417E+00	4	135	2.94	99.26	0.00	0.00
2.417E+00	- 2.583E+00	1	136	0.74	100.00	135.96	133.97
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	R	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 29 (S-ZN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+02 XXX
3.162E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+02
 MAXIMUM ANTILOG = 3.00000E+02
 GEOMETRIC MEAN = 2.16894E+02
 GEOMETRIC DEVIATION = 1.19881E+00
 VARIANCE OF LOGS = 6.20143E-03

PERCENT TABLE FOR VARIABLE 29 (S-ZN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 30 (S-ZR)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.02	0.02
1.416E+00	- 1.583E+00	1	1	0.74	0.74	0.21	3.03
1.583E+00	- 1.749E+00	4	5	2.94	3.68	1.66	3.31
1.749E+00	- 1.916E+00	6	11	4.41	8.09	7.85	0.44
1.916E+00	- 2.083E+00	19	30	13.97	22.06	22.05	0.42
2.083E+00	- 2.249E+00	24	54	17.65	39.71	36.81	4.46
2.249E+00	- 2.416E+00	48	102	35.29	75.00	36.53	3.60
2.416E+00	- 2.583E+00	28	130	20.59	95.59	21.55	1.93
2.583E+00	- 2.749E+00	6	136	4.41	100.00	9.33	1.19
	G	0	136	0.00	100.00	0.02	0.02
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 30 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

3.157E+01 X
4.634E+01 XXX
6.802E+01 XXXX
9.985E+01 XXXXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXXXXXXXXXXXX
2.151E+02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.157E+02 XXXXXXXXXXXXXXXXXXXXXXXX
4.634E+02 XXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 3.00000E+01
MAXIMUM ANTILOG = 5.00000E+02
GEOMETRIC MEAN = 1.76545E+02
GEOMETRIC DEVIATION = 1.68245E+03
VARIANCE OF LOGS = 5.10499E-02

```

PERCENT TABLE FOR VARIABLE 30 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991F 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.537431E+00	3.445917E+02
95.00	2.577907E+00	3.783616E+02
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 32 (INST-HG)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	7	7	5.47	5.47		
	L	9	16	7.03	12.50		
	T	0	16	0.00	12.50	25.35	25.35
-1.750E+00	-1.583E+00	50	66	39.06	51.56	20.47	42.62
-1.583E+00	-1.417E+00	0	66	0.00	51.56	24.33	24.33
-1.417E+00	-1.250E+00	35	101	27.34	78.91	22.97	6.30
-1.250E+00	-1.083E+00	15	116	11.72	90.63	17.23	0.29
-1.083E+00	-9.167E-01	6	122	4.69	95.31	10.26	1.77
-9.167E-01	-7.500E-01	1	123	0.78	96.09	4.86	3.06
-7.500E-01	-5.833E-01	2	125	1.56	97.66	1.82	0.02
-5.833E-01	-4.167E-01	1	126	0.78	98.44	0.54	0.38
-4.167E-01	-2.500E-01	0	126	0.00	98.44	0.13	0.13
-2.500E-01	-8.333E-02	0	126	0.00	98.44	0.02	0.02
-8.333E-02	8.334E-02	1	127	0.78	99.22	0.00	0.00
8.334E-02	2.500E-01	0	127	0.00	99.22	0.00	0.00
2.500E-01	4.167E-01	0	127	0.00	99.22	0.00	0.00
4.167E-01	5.833E-01	1	128	0.78	100.00	0.00	242.14
	G	0	128	0.00	100.00	0.00	0.00
	H	0	128				
	B	8	136				

TOTALS LESS H AND B 128

HISTOGRAM FOR VARIABLE 32 (INST-HG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E-02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E-02
4.642E-02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E-02 XXXXXXXXXXXXXXXX
1.000E-01 XXXXX
1.468E-01 X
2.154E-01 XX
3.162E-01 X
4.642E-01
6.813E-01
1.000E+00 X
1.468E+00
2.154E+00
3.162E+00 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E-02
MAXIMUM ANTILOG = 3.00000E+00
GEOMETRIC MEAN = 3.76899E-02
GEOMETRIC DEVIATION = 2.26279E+00
VARIANCE OF LOGS = 1.25771E-01

```

PERCENT TABLE FOR VARIABLE 32 (INST-HG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-1.092221E+00	8.086845E-02
95.00	-9.277761E-01	1.180929E-01
98.00	-5.099975E-01	3.090313E-01

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FREQUENCY TABLE FOR VARIABLE 33 (AA-AS-P)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CUM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	38	38	27.94	27.94		
	L	34	72	25.00	52.94		
	T	0	72	0.00	52.94	23.99	23.99
9.160E-01	- 1.083E+00	57	129	41.91	94.85	69.88	2.37
1.083E+00	- 1.249E+00	0	129	0.00	94.85	38.42	38.42
1.249E+00	- 1.416E+00	4	133	2.94	97.79	3.66	0.03
1.416E+00	- 1.583E+00	0	133	0.00	97.79	0.00	0.00
1.583E+00	- 1.749E+00	2	135	1.47	99.26	0.00	0.00
1.749E+00	- 1.916E+00	1	136	0.74	100.00	0.06	16.09
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 33 (AA-AS-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01
2.151E+01 XXX
3.157E+01
4.634E+01 X
6.802E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 7.00000E+01
GEOMETRIC MEAN = 1.12810E+01
GEOMETRIC DEVIATION = 1.46817E+00
VARIANCE OF LOGS = 2.78147E-02

```

PERCENT TABLE FOR VARIABLE 33 (AA-AS-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.099334E+00	1.256995E+01
98.00	1.462668E+00	2.901802E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 34 (AA-ZN-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
1.250E+00 - 1.417E+00	5	5	3.68	3.68	3.74	3.34
1.417E+00 - 1.583E+00	39	44	28.68	32.35	12.49	4.49
1.583E+00 - 1.750E+00	57	101	41.91	74.26	30.11	2.62
1.750E+00 - 1.917E+00	20	121	14.71	88.97	40.98	6.26
1.917E+00 - 2.083E+00	6	127	4.41	93.38	31.52	4.21
2.083E+00 - 2.250E+00	1	128	0.74	94.12	13.69	4.32
2.250E+00 - 2.417E+00	8	136	5.88	100.00	3.36	1.65
G	0	136	0.00	100.00	0.50	112.44
H	0	136			3.34	3.74
B	0	136				

TOTALS LESS H AND R 136

HISTOGRAM FOR VARIABLE 34 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+01 XXXX
3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXX
1.000E+02 XXXX
1.468E+02 X
2.154E+02 XXXXXX
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 2.20000E+02
GEOMETRIC MEAN = 4.71366E+01
GEOMETRIC DEVIATION = 1.64113E+00
VARIANCE OF LOGS = 4.62869E-02
    
```

PERCENT TABLE FOR VARIABLE 34 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.955557E+00	9.027281E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 35 (AA-SB-P)

LOG LIMITS		OBS	CUM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CUM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	49	49	36.03	36.03		
	L	41	90	30.15	66.18		
	T	0	90	0.00	66.18	43.77	43.77
2.500E-01	4.167E-01	37	127	27.21	93.39	42.77	0.78
4.167E-01	5.833E-01	0	127	0.00	93.39	32.72	32.72
5.833E-01	7.500E-01	4	131	2.94	96.32	13.42	6.61
7.500E-01	9.167E-01	2	133	1.47	97.79	2.95	0.70
9.167E-01	1.083E+00	1	134	0.74	98.53	0.34	1.24
1.083E+00	1.250E+00	0	134	0.00	98.53	0.00	0.00
1.250E+00	1.417E+00	0	134	0.00	98.53	0.00	0.00
1.417E+00	1.583E+00	0	134	0.00	98.53	0.00	0.00
1.583E+00	1.750E+00	1	135	0.74	99.26	0.00	0.00
1.750E+00	1.917E+00	1	136	0.74	100.00	0.00	43.08
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 35 (AA-SB-P) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+00
4.642E+00 XXX
6.813E+00 X
1.000E+01 X
1.468E+01
2.154E+01
3.162E+01
4.642E+01 X
6.813E+01 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+00
MAXIMUM ANTILOG = 8.00000E+01
GEOMETRIC MEAN = 2.69823E+00
GEOMETRIC DEVIATION = 2.18480E+00
VARIANCE OF LOGS = 1.15200E-01

```

PERCENT TABLE FOR VARIABLE 35 (AA-SB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

```

SELECTED DATA VALUE ANTI LOG OF VALUE
PERCENTILE

```

sed

90.00
95.00
98.00

1.000000E+35
6.000007E-01
9.633347E-01

1.000000E+35
3.981078E+00
9.190407E+00

APPENDIX G

DDO10 FISHER-K STATISTICS - U S G S STATPAC (05/12/80)

DATE 7/10/85

TITLE	INPUT ID	N	M	***** OPTIONS *****
Groom	-ds-2	135	74	0 0 0 0 0 0 0 0 0 0

NUMBER OF SELECTED COLUMNS = 74

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34						

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FEZ	S-MGZ	S-CAX	S-TIX	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-PE	S-RI	S-CD	S-FO	S-CR	S-CU	S-LA	S-MO
S-NP	S-NI	S-PP	S-SB	S-SC	S-SM	S-SR	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH	INST-HG						

NUMBER OF SELECTED POW PAIRS = 1

SELECTED POW PAIRS

1- 135

FROM

NO COLUMN	N	H	L	G	B	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1 X-COORD.	0	0	0	0	0	0	136	0	60200.000	61925.000	1
2 Y-COORD.	0	0	0	0	0	0	136	0	412635.00	415900.00	2
3 S-FEX	0	0	0	0	0	0	136	0	0.1500000	10.000000	3
4 S-MGX	0	0	0	0	0	0	136	0	0.0500000	5.0000000	4
5 S-CAZ	0	0	0	0	0	0	136	0	0.2000000	15.000000	5
6 S-TIX	0	0	0	63	0	0	73 -	0	0.1000000	2.0000000	6
7 S-MN	0	0	0	0	0	0	136	0	100.00000	700.00000	7
8 S-AG	116	0	3	0	0	0	17 +	0	1.0000000	200.00000	8
9 S-AS	133	0	0	0	0	0	3 +	0	500.00000	1500.0000	9
10 S-AU	136	0	0	0	0	0	0	0			10
11 S-B	6	0	40	0	0	0	90 -	0	20.000000	5000.0000	11
12 S-BA	0	0	0	17	0	0	119 -	0	70.000000	10000.000	12
13 S-BE	102	0	27	0	0	0	7 -	0	2.0000000	5.0000000	13
14 S-BI	135	0	0	0	0	0	1 -	0	20.000000	20.000000	14
15 S-CD	133	0	1	0	0	0	2 +	0	50.000000	100.00000	15
16 S-CO	120	0	9	0	0	0	7 -	0	10.000000	70.000000	16
17 S-CR	3	0	12	0	0	0	121 -	0	20.000000	100.00000	17
18 S-CU	84	0	13	0	0	0	39 -	0	10.000000	1000.0000	18
19 S-LA	0	0	0	0	0	0	136	0	50.000000	700.00000	19
20 S-MO	133	0	2	0	0	0	1	0	10.000000	10.000000	20
21 S-NB	99	0	31	0	0	0	6 +	0	50.000000	150.00000	21
22 S-NI	30	0	66	0	0	0	40 -	0	10.000000	200.00000	22
23 S-PB	0	0	46	2	0	0	88 -	0	20.000000	30000.000	23
24 S-SB	128	0	0	0	0	0	8 -	0	200.00000	7000.0000	24
25 S-SC	3	0	8	0	0	0	125 -	0	10.000000	200.00000	25
26 S-SN	119	0	5	0	0	0	12 -	0	20.000000	200.00000	26
27 S-SR	60	0	9	0	0	0	67 -	0	200.00000	2000.0000	27
28 S-V	0	0	10	0	0	0	126 -	0	20.000000	150.00000	28
29 S-W	136	0	0	0	0	0	0	0			29
30 S-Y	0	0	0	0	0	0	136	0	20.000000	3000.0000	30
31 S-ZN	126	0	4	1	0	0	5	0	500.00000	15000.000	31
32 S-ZR	0	0	0	135	0	0	1 -	0	2000.0000	2000.0000	32
33 S-TH	135	0	1	0	0	0	0	0			33
34 INST-HS	13	0	23	36	0	0	64 -	0	0.2000000	4.8000000	34

Groom

NO	COLUMN	K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	NO
1	X-COORD.	61104.059	511.30017	251427.86	14118774.	0.1056256	-9.76845300+10	-1.4292956	1
2	Y-COORD.	414123.32	840.02112	705635.48	2.18117260+08	0.3679759	-4.18289070+11	-0.8400704	2
3	S-FEZ	0.6125000	0.9888967	0.9779167	7.0019441	7.2404551	60.421304	63.180986	3
4	S-MGX	0.5500735	0.8986850	0.3076348	2.4183423	3.3319251	8.1642741	12.519699	4
5	S-CAZ	3.7676471	3.8215739	14.604427	89.816021	1.6092630	395.75960	1.8555062	5
6	S-TIX	1.4424658	0.6592647	0.4346799	-0.2277470	-0.7948200	-0.1627656	-0.8589881	6
7	S-MN	315.07353	170.76298	29159.995	4622751.1	0.9283663	-2.38172650+08	-0.2801025	7
8	S-AG	21.617647	51.919267	2395.6103	429208.36	3.0667793	69252705.	9.5306502	8
9	S-AS	1000.0000	500.00000	250000.00	0.0	0.0			9
10	S-AU								10
11	S-B	109.55556	544.47978	296458.23	1.37444680+09	8.5149610	6.64738290+12	75.635152	11
12	S-BA	2080.0000	2661.0750	7081320.3	3.62613190+10	1.9242976	1.35419610+14	2.7005554	12
13	S-BE	2.4285714	1.1338934	1.2857143	3.8571429	2.6457513	11.571429	7.0000000	13
14	S-BI	20.000000							14
15	S-CD	75.000000	35.355339	1250.00000					15
16	S-CD	25.714286	24.397502	595.23810	19942.857	1.3732554	158380.95	0.4470144	16
17	S-CR	54.628099	22.950720	526.73554	3765.5983	0.3114907	-101785.32	-0.3668596	17
18	S-CU	91.538462	229.41331	52630.466	43164707.	3.5749748	3.38684670+10	12.227034	18
19	S-LA	199.41176	123.17867	15172.985	4003863.8	2.1422629	1.25314280+09	5.4432528	19
20	S-MO	10.000000							20
21	S-NB	78.333333	40.207794	1516.6667	92833.333	1.4281480	3641665.7	1.3933468	21
22	S-NI	18.625000	30.403000	924.34295	161529.90	5.7478207	29628208.	34.676008	22
23	S-PA	779.09091	3613.1715	13055008.	7.29831330+11	6.9923986	8.97162400+15	52.640106	23
24	S-SB	1537.5000	2264.5955	5128392.9	2.96986610+10	2.5572014	1.79323390+14	6.8182727	24
25	S-SC	78.480000	43.654730	1905.7355	37556.698	0.4514332	-884020.56	-0.2434093	25
26	S-SN	53.333333	54.827553	3006.0606	341987.88	2.0749810	39075394.	4.3742712	26
27	S-SR	695.52239	455.74875	207706.92	1.22866940+08	1.2979519	5.76136050+10	1.3354361	27
28	S-V	50.714286	25.367020	643.48571	24619.521	1.5082427	1621025.6	3.9148223	28
29	S-W								29
30	S-Y	704.04412	594.28809	353178.34	4.34798440+08	2.0715570	6.49667270+11	5.2083825	30
31	S-ZN	4000.0000	6234.9820	33875000.	5.07187500+11	2.0924878	6.68878130+15	4.4259468	31
32	S-ZR	2000.0000							32
33	S-TH								33
34	INST-HG	1.1503125	1.1814760	1.3958856	2.5245418	1.5307625	3.4012347	1.7455687	34

NOTE: THE ABOVE STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY.

D101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/13/85

TITLE	INPUT ID	N	M	***** OPTIONS *****	OUTPUT ID	N	M
room	-ds-2	-	136	32	1 0 1 1 0 0 0 0 0 0	-	-
						32	32

NUMBER OF SELECTED COLUMNS 32

ELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32								

ELECTED COLUMN IDENTIFIERS

S-FE%	S-MG%	S-CAX	S-TI%	S-MH	S-AG	S-AS	S-AU	S-B	S-BA
S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI
S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
S-TH	INST-HG								

NUMBER OF SELECTED ROW PAIRS 1

ELECTED ROW PAIRS

1- 136

H A S E T W O R E S U L T S

W A R N I N G * * * THE RESULTS FROM THIS PHASE "SHOULD NOT" BE ENTERED INTO DQC96-FACTOR ANALYSIS.
 THE CORRELATION MATRIX FROM THIS PHASE DOES NOT HAVE THE GRAMIAN PROPERTIES
 WHICH ARE REQUIRED FOR FACTOR ANALYSIS.

00101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

ARRAY OF MEANS -

	1	2	3	4	5	6	7	8	9	10
	S-FEZ	S-MGZ	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
1 S-FEZ	-0.3691	-0.3691	-0.3691	-0.3921	-0.3691	-0.0629	0.3820	*****	-0.3433	-0.3
2 S-MGZ	-0.5799	-0.5799	-0.5799	-0.4659	-0.5799	-0.6228	-0.4002	*****	-0.6459	-0.5
3 S-CAZ	0.3711	0.3711	0.3711	0.5194	0.3711	0.4657	0.3768	*****	0.2657	0.3
4 S-TIZ	0.0707	0.0707	0.0707	0.0707	0.0707	0.2223	0.1174	*****	0.1900	0.0
5 S-MN	2.4397	2.4397	2.4397	2.4295	2.4397	2.5049	2.5663	*****	2.4426	2.4
6 S-AG	0.6052	0.6052	0.6052	1.0616	0.6052	0.6052	1.9261	*****	0.6242	0.5
7 S-AS	2.9584	2.9584	2.9584	2.9584	2.9584	2.9584	2.9584	*****	2.9584	2.8
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	1.5388	1.5388	1.5388	1.4477	1.5388	1.8474	1.7964	*****	1.5388	1.5
10 S-BA	3.0450	3.0450	3.0450	3.0114	3.0450	3.5471	3.9275	*****	3.1167	3.0
11 S-BE	0.3579	0.3579	0.3579	0.3674	0.3579	0.3010	*****	*****	0.3010	0.3
12 S-BI	1.3010	1.3010	1.3010	*****	1.3010	*****	*****	*****	*****	*****
13 S-CO	1.8495	1.8495	1.8495	1.8495	1.8495	1.8495	1.8495	*****	1.8495	1.6
14 S-CO	1.2636	1.2636	1.2636	1.6150	1.2636	1.3690	1.6150	*****	1.3075	1.2
15 S-CR	1.6933	1.6933	1.6933	1.5698	1.6933	1.7612	1.3010	*****	1.7360	1.6
16 S-CU	1.4368	1.4368	1.4368	1.5738	1.4368	1.7033	2.8997	*****	1.4716	1.3
17 S-LA	2.2369	2.2369	2.2369	2.2361	2.2369	2.1843	1.8997	*****	2.2233	2.2
18 S-MO	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	*****	1.0000	1.0
19 S-NB	1.8530	1.8530	1.8530	1.6990	1.8530	*****	*****	*****	2.1761	1.8
20 S-NI	1.1361	1.1361	1.1361	1.1918	1.1361	1.2466	1.6931	*****	1.1697	1.1
21 S-PB	1.9349	1.9349	1.9349	1.8746	1.9349	3.0859	4.4771	*****	2.0449	1.8
22 S-SB	2.8986	2.8986	2.8986	2.9271	2.8986	3.0025	2.9554	*****	3.0314	2.9
23 S-SC	1.8047	1.8047	1.8047	1.6016	1.8047	1.7921	1.3010	*****	1.8628	1.9
24 S-SN	1.5780	1.5780	1.5780	1.6505	1.5780	1.8674	2.0000	*****	1.6228	1.5
25 S-SR	2.7566	2.7566	2.7566	2.7047	2.7566	2.9116	2.7964	*****	2.8143	2.6
26 S-V	1.6555	1.6555	1.6555	1.5205	1.6555	1.7130	1.3597	*****	1.6972	1.6
27 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
28 S-Y	2.6949	2.6949	2.6949	2.4754	2.6949	2.7806	2.3181	*****	2.8125	2.6
29 S-ZN	3.2102	3.2102	3.2102	3.3380	3.2102	3.2628	3.8266	*****	3.2102	3.3
30 S-ZP	3.3010	3.3010	3.3010	3.3010	3.3010	*****	*****	*****	*****	3.3
31 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 INST-H5	-0.1486	-0.1486	-0.1486	-0.1140	-0.1486	0.0125	*****	*****	-0.1392	-0.1

ARRAY OF MEANS - CONT.

	11	12	13	14	15	16	17	18	19	20
	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI
1 S-FEZ	-0.2797	-0.3010	0.6505	0.2415	-0.3753	-0.2345	-0.3691	-0.1549	-0.4575	-0.197
2 S-HGZ	-0.5475	-0.8239	-0.3389	-0.5289	-0.6191	-0.7224	-0.5799	-0.5229	-0.5578	-0.561
3 S-CAZ	0.4967	0.3010	0.3266	0.5028	0.3551	0.2980	0.3711	0.4771	0.6752	0.301
4 S-TIX	-0.1951	*****	0.0880	0.1174	0.1973	0.2400	0.0707	0.1761	0.3010	0.231
5 S-MN	2.3999	2.4771	2.5000	2.6522	2.4641	2.4801	2.4397	2.6990	2.5587	2.511
6 S-AG	0.0000	*****	1.8891	1.3556	0.4992	0.6658	0.6052	2.0000	*****	0.741
7 S-AS	*****	*****	2.9375	2.9584	3.0880	2.9584	2.9584	3.0000	*****	2.951
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	2.1003	*****	1.8451	1.8774	1.5372	1.6556	1.5388	1.6990	1.3010	1.711
10 S-BA	3.1312	*****	3.8451	3.6042	3.0509	3.2643	3.0450	4.0000	2.6998	3.091
11 S-BE	0.3579	*****	*****	*****	0.3674	0.3010	0.3579	*****	*****	0.301
12 S-BI	*****	1.3010	*****	*****	1.3010	*****	1.3010	*****	*****	*****
13 S-CD	*****	*****	1.8495	1.8495	2.0000	1.8495	1.8495	*****	*****	1.841
14 S-CO	*****	*****	1.5731	1.2636	1.2573	1.3075	1.2636	1.6990	*****	1.261
15 S-CR	1.5537	2.0000	1.3010	1.7154	1.6933	1.7583	1.6933	1.3010	1.5577	1.781
16 S-CU	1.3266	*****	3.0000	2.2867	1.3957	1.4368	1.4368	2.6990	1.1761	1.451
17 S-LA	2.1172	2.1761	1.8495	2.1112	2.2580	2.2387	2.2369	2.0000	2.4214	2.251
18 S-MO	*****	*****	*****	1.0000	1.0000	1.0000	1.0000	1.0000	*****	1.000
19 S-NB	*****	*****	*****	*****	1.8530	2.1761	1.8530	*****	1.8530	1.901
20 S-NI	1.0880	*****	1.8891	1.3652	1.1273	1.2025	1.1361	1.3010	1.0000	1.131
21 S-PB	2.0303	*****	4.4771	2.9306	1.9552	2.4168	1.9349	*****	1.6853	2.241
22 S-SB	*****	*****	3.0106	2.9554	2.9062	2.8589	2.8986	2.8451	*****	2.981
23 S-SC	1.6838	2.0000	1.3010	1.6228	1.8433	1.8793	1.8047	1.3010	1.8222	1.851
24 S-SM	*****	*****	2.0000	2.0000	1.5780	2.1003	1.5780	*****	1.3891	1.571
25 S-SR	2.7204	2.8451	2.7720	2.9131	2.7439	2.8732	2.7566	2.8451	3.0106	2.891
26 S-V	1.5306	2.1761	1.3010	1.6844	1.6780	1.7181	1.6555	1.4771	1.6124	1.721
27 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
28 S-Y	2.5136	2.4771	2.3266	2.6856	2.7870	2.8739	2.6949	2.3010	2.5957	2.861
29 S-ZN	3.0000	*****	4.1761	3.4507	2.9688	3.2102	3.2102	3.4771	*****	3.210
30 S-ZR	*****	*****	*****	*****	*****	*****	3.3010	*****	*****	*****
31 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 INST-HS	0.2400	*****	*****	-0.1823	-0.1432	-0.0789	-0.1486	*****	-0.5578	-0.011

10101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/13/85

ARRAY OF MEANS - CONT.

	21	22	23	24	25	26	27	28	29	30
	S-PB	S-SE	S-SC	S-SN	S-SR	S-V	S-W	S-Y	S-ZH	S-ZR
1 S-FE%	-0.3550	0.1219	-0.3698	-0.1614	-0.3664	-0.3650	*****	-0.3691	0.0937	0.000
2 S-MGZ	-0.6437	-0.3404	-0.6221	-0.4316	-0.5740	-0.6189	*****	-0.5799	-0.4651	0.170
3 S-CAZ	0.3232	0.5504	0.3482	0.4966	0.5573	0.3510	*****	0.3711	0.7349	0.470
4 S-TIX	0.1557	0.2045	0.1773	0.2602	-0.0232	0.1657	*****	0.0707	0.1193	-0.920
5 S-MH	2.4591	2.6303	2.4641	2.6750	2.4090	2.4604	*****	2.4397	2.6838	2.301
6 S-AG	0.3992	1.3556	0.6052	0.8257	0.8072	0.6052	*****	0.6052	1.4005	*****
7 S-AS	3.1761	2.9584	2.9584	3.1761	2.9584	2.9584	*****	2.9584	2.8495	*****
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	1.5908	1.6444	1.5380	1.5251	1.5730	1.5415	*****	1.5388	1.7440	*****
10 S-BA	3.0890	3.0755	3.0658	2.8797	3.1806	3.0560	*****	3.0450	3.4978	3.000
11 S-BE	0.3010	*****	0.3806	*****	0.3806	0.3806	*****	0.3579	0.3010	*****
12 S-BI	*****	*****	1.3010	*****	1.3010	1.3010	*****	1.3010	*****	*****
13 S-CD	2.0000	1.8495	1.8495	2.0000	1.8495	1.8495	*****	1.8495	1.6990	*****
14 S-CO	1.1690	1.6150	1.2636	1.8451	1.3690	1.2636	*****	1.2636	1.3333	*****
15 S-CR	1.7189	1.6383	1.7032	1.6573	1.6177	1.7032	*****	1.6933	1.5731	*****
16 S-CU	1.3897	2.0390	1.4368	2.2330	1.6126	1.4368	*****	1.4368	2.0838	*****
17 S-LA	2.2563	2.2846	2.2566	2.3840	2.2166	2.2522	*****	2.2369	2.2511	2.845
18 S-MO	*****	1.0000	1.0000	*****	1.0000	1.0000	*****	1.0000	1.0000	*****
19 S-NB	1.8236	*****	1.8530	1.8495	1.8495	1.8530	*****	1.8530	*****	*****
20 S-HI	1.1347	1.3725	1.1361	1.3693	1.2006	1.1361	*****	1.1361	1.2261	*****
21 S-PB	1.9349	3.0687	1.9476	2.6221	2.1450	1.9455	*****	1.9349	3.1174	1.301
22 S-SB	3.0395	2.8986	2.8986	2.8844	2.6937	2.8986	*****	2.8986	3.1784	*****
23 S-SC	1.8586	1.5282	1.8047	1.8232	1.6339	1.8139	*****	1.8047	1.4201	1.000
24 S-SN	1.6312	1.8574	1.5780	1.5780	1.7698	1.5780	*****	1.5780	*****	*****
25 S-SR	2.8412	2.6778	2.7503	2.8913	2.7566	2.7592	*****	2.7566	2.8860	2.695
26 S-V	1.6846	1.5722	1.6627	1.6712	1.5968	1.6555	*****	1.6555	1.6201	1.301
27 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
28 S-Y	2.7986	2.5372	2.7702	2.7634	2.4861	2.7580	*****	2.6949	2.5440	1.595
29 S-ZH	2.7993	3.4507	3.2102	*****	3.3380	3.2102	*****	3.2102	3.2102	*****
30 S-ZR	3.3010	*****	3.3010	*****	3.3010	3.3010	*****	3.3010	*****	3.301
31 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 INST-HS	-0.1530	0.4472	-0.1575	-0.3169	-0.1427	-0.1425	*****	-0.1486	0.2041	*****

00101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

ARRAY OF MEANS - CONT.

	31	32
	S-TH	INST-HG
1 S-FEZ	*****	-0.3858
2 S-MGZ	*****	-0.6617
3 S-CAZ	*****	0.3858
4 S-TIZ	*****	0.1265
5 S-MN	*****	2.4544
6 S-AG	*****	0.3036
7 S-AS	*****	*****
8 S-AU	*****	*****
9 S-B	*****	1.5887
10 S-BA	*****	3.1427
11 S-BE	*****	0.3010
12 S-BI	*****	*****
13 S-CD	*****	*****
14 S-CO	*****	1.0000
15 S-CR	*****	1.7370
16 S-CU	*****	1.2910
17 S-LA	*****	2.2303
18 S-MO	*****	*****
19 S-NB	*****	2.1761
20 S-NI	*****	1.0963
21 S-PB	*****	1.9841
22 S-SB	*****	2.3010
23 S-SC	*****	1.8483
24 S-SN	*****	1.6931
25 S-SR	*****	2.7400
26 S-V	*****	1.6556
27 S-W	*****	*****
28 S-Y	*****	2.7843
29 S-ZN	*****	3.0000
30 S-ZR	*****	*****
31 S-TH	*****	*****
32 INST-HG	*****	-0.1436

0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

RPAY OF VARIANCES -

	1	2	3	4	5	6	7	8	9	10
	S-FEZ	S-MGZ	S-CAZ	S-TIZ	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
1 S-FEZ	0.094	0.094	0.094	0.107	0.094	0.144	0.338	*****	0.088	0.08
2 S-MGZ	0.233	0.233	0.233	0.293	0.233	0.065	0.045	*****	0.174	0.24
3 S-CAZ	0.188	0.188	0.188	0.151	0.188	0.173	0.030	*****	0.180	0.17
4 S-TIZ	0.115	0.115	0.115	0.115	0.115	0.013	0.010	*****	0.046	0.12
5 S-MN	0.050	0.050	0.050	0.049	0.050	0.036	0.053	*****	0.047	0.05
6 S-AG	0.488	0.488	0.488	0.738	0.488	0.488	0.174	*****	0.514	0.55
7 S-AS	0.058	0.058	0.058	0.058	0.058	0.058	0.058	*****	0.058	0.04
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	0.144	0.144	0.144	0.057	0.144	0.286	0.007	*****	0.144	0.15
10 S-BA	0.223	0.223	0.223	0.175	0.223	0.136	0.012	*****	0.249	0.22
11 S-BE	0.023	0.023	0.023	0.026	0.023	*****	*****	*****	0.000	0.02
12 S-RI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
13 S-CD	0.045	0.045	0.045	0.045	0.045	0.045	0.045	*****	0.045	*****
14 S-CO	0.135	0.135	0.135	0.079	0.135	0.153	0.079	*****	0.145	0.09
15 S-CR	0.043	0.043	0.043	0.040	0.043	0.061	0.000	*****	0.036	0.04
16 S-CU	0.287	0.287	0.287	0.488	0.287	0.461	0.030	*****	0.308	0.25
17 S-LA	0.052	0.052	0.052	0.063	0.052	0.045	0.030	*****	0.045	0.05
18 S-MO	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
19 S-NB	0.039	0.039	0.039	0.000	0.039	*****	*****	*****	*****	0.05
20 S-NI	0.063	0.063	0.063	0.109	0.063	0.131	0.285	*****	0.078	0.03
21 S-PB	0.472	0.472	0.472	0.553	0.472	0.425	*****	*****	0.533	0.33
22 S-SB	0.259	0.259	0.259	0.294	0.259	0.320	0.037	*****	0.261	0.28
23 S-SC	0.100	0.100	0.100	0.096	0.100	0.109	0.000	*****	0.087	0.10
24 S-SN	0.119	0.119	0.119	0.183	0.119	0.263	*****	*****	0.169	0.13
25 S-SR	0.077	0.077	0.077	0.062	0.077	0.048	0.007	*****	0.085	0.05
26 S-V	0.044	0.044	0.044	0.035	0.044	0.045	0.010	*****	0.034	0.04
27 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
28 S-Y	0.167	0.167	0.167	0.155	0.167	0.086	0.023	*****	0.105	0.18
29 S-ZN	0.393	0.393	0.393	0.415	0.393	0.505	0.244	*****	0.393	0.41
30 S-ZR	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 INST-HG	0.184	0.184	0.184	0.186	0.184	0.115	*****	*****	0.176	0.18

1101 CORRELATION ANALYSIS - USGS STATPAC (01/15/32)

DATE 7/13/85

RAY OF VARIANCES - CONT.

	11	12	13	14	15	16	17	18	19	20
	S-BE	S-RI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI
1 S-FEX	0.091	*****	0.244	0.203	0.095	0.119	0.094	*****	0.077	0.142
2 S-MGZ	0.185	*****	0.068	0.191	0.204	0.129	0.233	*****	0.253	0.204
3 S-CAZ	0.151	*****	0.045	0.157	0.198	0.198	0.188	*****	0.220	0.221
4 S-TIZ	0.200	*****	0.016	0.010	0.040	0.011	0.115	*****	0.000	0.011
5 S-MN	0.087	*****	0.079	0.039	0.047	0.036	0.050	*****	0.028	0.045
6 S-AG	*****	*****	0.339	0.222	0.317	0.521	0.488	*****	*****	0.501
7 S-AS	*****	*****	0.114	0.058	0.016	0.058	0.058	*****	*****	0.051
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	1.917	*****	0.000	0.034	0.147	0.181	0.144	*****	*****	0.227
0 S-BA	0.202	*****	*****	0.302	0.236	0.328	0.223	*****	0.353	0.344
1 S-BE	0.023	*****	*****	*****	0.026	0.000	0.023	*****	*****	0.001
2 S-RI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
3 S-CD	*****	*****	0.045	0.045	*****	0.045	0.045	*****	*****	0.045
4 S-CO	*****	*****	0.148	0.135	0.161	0.145	0.135	*****	*****	0.135
5 S-CR	0.052	*****	*****	0.108	0.043	0.054	0.043	*****	0.052	0.031
6 S-CU	0.045	*****	0.000	0.477	0.227	0.227	0.287	*****	*****	0.340
7 S-LA	0.055	*****	0.045	0.051	0.046	0.059	0.052	*****	0.058	0.055
8 S-MO	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-NB	*****	*****	*****	*****	0.039	*****	0.039	*****	0.039	0.060
0 S-NI	0.016	*****	0.339	0.200	0.061	0.084	0.063	*****	0.000	0.063
1 S-PB	0.495	*****	*****	1.880	0.476	0.667	0.472	*****	0.215	0.598
2 S-SB	*****	*****	0.055	0.037	0.301	0.287	0.259	*****	*****	0.231
3 S-SC	0.096	*****	0.000	0.139	0.078	0.095	0.100	*****	0.013	0.088
4 S-SN	*****	*****	*****	*****	0.119	0.030	0.119	*****	0.016	0.115
5 S-SR	0.147	*****	0.011	0.033	0.091	0.075	0.077	*****	0.055	0.078
6 S-V	0.029	*****	0.000	0.109	0.039	0.039	0.044	*****	0.025	0.041
7 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
8 S-Y	0.332	*****	0.045	0.159	0.098	0.091	0.167	*****	0.029	0.096
9 S-ZN	*****	*****	*****	0.546	0.135	0.393	0.393	*****	*****	0.393
0 S-ZR	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
1 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2 INST-HS	0.039	*****	*****	0.383	0.193	0.150	0.184	*****	*****	0.145

0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

ARRAY OF VARIANCES - CONT.

	21	22	23	24	25	26	27	28	29	30
	S-PB	S-SB	S-SC	S-SH	S-SR	S-V	S-W	S-Y	S-ZN	S-ZR
1 S-FEZ	0.109	0.231	0.098	0.191	0.091	0.097	*****	0.094	0.081	*****
2 S-MGZ	0.197	0.142	0.199	0.154	0.229	0.204	*****	0.233	0.065	*****
3 S-CAZ	0.211	0.035	0.192	0.153	0.159	0.192	*****	0.188	0.085	*****
4 S-TIZ	0.082	0.012	0.045	0.003	0.143	0.055	*****	0.115	0.022	*****
5 S-MN	0.048	0.037	0.046	0.042	0.039	0.047	*****	0.050	0.017	*****
6 S-AG	0.168	0.717	0.488	0.358	0.549	0.488	*****	0.488	0.847	*****
7 S-AS	*****	0.058	0.058	*****	0.058	0.058	*****	0.058	0.045	*****
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	0.187	0.046	0.145	0.045	0.136	0.145	*****	0.144	0.099	*****
10 S-BA	0.258	0.535	0.239	0.090	0.195	0.232	*****	0.223	0.279	*****
11 S-BE	0.000	*****	0.032	*****	0.032	0.032	*****	0.023	*****	*****
12 S-BI	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
13 S-CD	*****	0.045	0.045	*****	0.045	0.045	*****	0.045	*****	*****
14 S-CO	0.143	0.079	0.135	*****	0.153	0.135	*****	0.135	0.123	*****
15 S-CR	0.045	0.079	0.040	0.050	0.059	0.040	*****	0.043	0.099	*****
16 S-CU	0.198	0.723	0.287	0.464	0.480	0.287	*****	0.287	0.562	*****
17 S-LA	0.053	0.133	0.049	0.079	0.057	0.050	*****	0.052	0.058	*****
18 S-MO	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
19 S-NB	0.043	*****	0.039	0.045	0.045	0.039	*****	0.039	*****	*****
20 S-NI	0.072	0.189	0.063	0.393	0.132	0.063	*****	0.063	0.031	*****
21 S-PB	0.472	1.221	0.476	0.832	0.776	0.478	*****	0.472	1.010	*****
22 S-SB	0.337	0.259	0.259	0.255	0.147	0.259	*****	0.259	0.373	*****
23 S-SC	0.088	0.080	0.100	0.074	0.121	0.096	*****	0.100	0.058	*****
24 S-SH	0.148	0.263	0.119	0.119	0.214	0.119	*****	0.119	*****	*****
25 S-SR	0.075	0.050	0.088	0.041	0.077	0.082	*****	0.077	0.021	*****
26 S-V	0.037	0.064	0.043	0.037	0.053	0.044	*****	0.044	0.084	*****
27 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
28 S-Y	0.115	0.059	0.104	0.039	0.184	0.117	*****	0.167	0.083	*****
29 S-ZN	0.030	0.546	0.393	*****	0.415	0.393	*****	0.393	0.393	*****
30 S-ZR	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
31 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
32 INST-HG	0.190	*****	0.189	0.438	0.177	0.184	*****	0.184	*****	*****

0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

ARRAY OF VARIANCES - CONT.

	31	32
	S-TH	INST-HG
1 S-FE%	*****	0.077
2 S-MG%	*****	0.221
3 S-CA%	*****	0.237
4 S-TI%	*****	0.385
5 S-MN	*****	0.044
6 S-AG	*****	0.365
7 S-AS	*****	*****
8 S-AU	*****	*****
9 S-B	*****	C.212
10 S-BA	*****	C.252
11 S-BE	*****	0.300
12 S-BI	*****	*****
13 S-CD	*****	*****
14 S-CC	*****	C.000
15 S-CR	*****	C.341
16 S-CU	*****	0.398
17 S-LA	*****	0.347
18 S-MO	*****	*****
19 S-NR	*****	*****
20 S-NI	*****	0.333
21 S-PB	*****	0.470
22 S-SB	*****	*****
23 S-SC	*****	0.381
24 S-SH	*****	0.285
25 S-SR	*****	0.379
26 S-V	*****	0.336
27 S-W	*****	*****
28 S-Y	*****	0.120
29 S-ZH	*****	*****
30 S-ZR	*****	*****
31 S-TH	*****	*****
32 INST-HG	*****	C.154

0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
1 (S-FEZ )	)	2 (S-MG%)	0.4007	136
1 (S-FEZ )	)	3 (S-CA%)	0.2072	136
1 (S-FEZ )	)	4 (S-TIX)	-0.1595	73
1 (S-FEZ )	)	5 (S-MN)	0.4044	136
1 (S-FEZ )	)	6 (S-AG)	0.4344	17
1 (S-FEZ )	)	7 (S-AS)	0.4746	3
1 (S-FEZ )	)	8 (S-AU)	*****	0
1 (S-FEZ )	)	9 (S-B)	0.1756	90
1 (S-FEZ )	)	10 (S-BA)	0.0171	119
1 (S-FEZ )	)	11 (S-BE)	-0.3564	7
1 (S-FEZ )	)	12 (S-BI)	*****	1
1 (S-FEZ )	)	13 (S-CD)	1.0000	2
1 (S-FEZ )	)	14 (S-CO)	0.3851	7
1 (S-FEZ )	)	15 (S-CR)	0.0877	121
1 (S-FEZ )	)	16 (S-CU)	0.4639	39
1 (S-FEZ )	)	17 (S-LA)	-0.0662	136
1 (S-FEZ )	)	18 (S-MO)	*****	1
1 (S-FEZ )	)	19 (S-NB)	0.7103	6
1 (S-FEZ )	)	20 (S-NI)	0.4493	40
1 (S-FEZ )	)	21 (S-PB)	0.4070	88
1 (S-FEZ )	)	22 (S-SB)	0.7377	8
1 (S-FEZ )	)	23 (S-SC)	-0.1377	125
1 (S-FEZ )	)	24 (S-SN)	0.2177	12
1 (S-FEZ )	)	25 (S-SR)	0.2200	67
1 (S-FEZ )	)	26 (S-V)	0.2780	126
1 (S-FEZ )	)	27 (S-W)	*****	0
1 (S-FEZ )	)	28 (S-Y)	-0.0944	136
1 (S-FEZ )	)	29 (S-ZN)	0.1190	5
1 (S-FEZ )	)	30 (S-ZR)	*****	1
1 (S-FEZ )	)	31 (S-TH)	*****	0
1 (S-FEZ )	)	32 (INST-HG)	0.0452	64
2 (S-MG% )	)	3 (S-CA%)	0.3843	136
2 (S-MG% )	)	4 (S-TIX)	-0.3465	73
2 (S-MG% )	)	5 (S-MN)	0.1037	136
2 (S-MG% )	)	6 (S-AG)	0.3147	17
2 (S-MG% )	)	7 (S-AS)	-0.9310	3
2 (S-MG% )	)	8 (S-AU)	*****	0
2 (S-MG% )	)	9 (S-B)	0.0139	90
2 (S-MG% )	)	10 (S-BA)	-0.2423	119
2 (S-MG% )	)	11 (S-BE)	-0.1551	7
2 (S-MG% )	)	12 (S-BI)	*****	1
2 (S-MG% )	)	13 (S-CD)	-1.0000	2
2 (S-MG% )	)	14 (S-CO)	0.1268	7
2 (S-MG% )	)	15 (S-CR)	-0.1653	121
2 (S-MG% )	)	16 (S-CU)	0.2452	39
2 (S-MG%))	17 (S-LA)	-0.0334	136
2 (S-MG%))	18 (S-MO)	*****	1
2 (S-MG%))	19 (S-NB)	-0.1579	6
2 (S-MG%))	20 (S-NI)	-0.2004	40
2 (S-MG%))	21 (S-PB)	-0.0026	88

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
2 (S-MGZ)	22 (S-SB)		0.2400	8
2 (S-MGZ)	23 (S-SC)		-0.3917	125
2 (S-MGZ)	24 (S-SN)		-0.3772	12
2 (S-MGZ)	25 (S-SR)		-0.2605	67
2 (S-MGZ)	26 (S-V)		-0.0701	126
2 (S-MGZ)	27 (S-W)		*****	0
2 (S-MGZ)	28 (S-Y)		-0.4530	136
2 (S-MGZ)	29 (S-ZN)		0.6212	5
2 (S-MGZ)	30 (S-ZR)		*****	1
2 (S-MGZ)	31 (S-TH)		*****	0
2 (S-MGZ)	32 (INST-HG)		-0.1574	64
3 (S-CAZ)	4 (S-TIX)		-0.0716	73
3 (S-CAZ)	5 (S-MN)		0.4121	136
3 (S-CAZ)	6 (S-AG)		0.0853	17
3 (S-CAZ)	7 (S-AS)		-0.7816	3
3 (S-CAZ)	8 (S-AU)		*****	0
3 (S-CAZ)	9 (S-B)		-0.0440	90
3 (S-CAZ)	10 (S-BA)		-0.0969	119
3 (S-CAZ)	11 (S-BE)		-0.5640	7
3 (S-CAZ)	12 (S-BI)		*****	1
3 (S-CAZ)	13 (S-CD)		-1.0000	2
3 (S-CAZ)	14 (S-CO)		-0.3458	7
3 (S-CAZ)	15 (S-CR)		-0.3146	121
3 (S-CAZ)	16 (S-CU)		0.0462	39
3 (S-CAZ)	17 (S-LA)		0.2834	136
3 (S-CAZ)	18 (S-MO)		*****	1
3 (S-CAZ)	19 (S-NB)		-0.2715	6
3 (S-CAZ)	20 (S-NI)		-0.2216	40
3 (S-CAZ)	21 (S-PB)		0.2025	88
3 (S-CAZ)	22 (S-SB)		-0.1159	8
3 (S-CAZ)	23 (S-SC)		-0.3701	125
3 (S-CAZ)	24 (S-SN)		-0.1990	12
3 (S-CAZ)	25 (S-SR)		0.1955	67
3 (S-CAZ)	26 (S-V)		-0.1485	126
3 (S-CAZ)	27 (S-W)		*****	0
3 (S-CAZ)	28 (S-Y)		-0.3647	136
3 (S-CAZ)	29 (S-ZN)		-0.6128	5
3 (S-CAZ)	30 (S-ZR)		*****	1
3 (S-CAZ)	31 (S-TH)		*****	0
3 (S-CAZ)	32 (INST-HG)		0.0528	64
4 (S-TIX)	5 (S-MN)		0.5420	73
4 (S-TIX)	6 (S-AG)		-0.9201	7
4 (S-TIX)	7 (S-AS)		0.9310	3
4 (S-TIX)	8 (S-AU)		*****	0
4 (S-TIX)	9 (S-B)		-0.2252	37
4 (S-TIX)	10 (S-BA)		0.1168	64
4 (S-TIX)	11 (S-BE)		0.2136	6
4 (S-TIX)	12 (S-BI)		*****	0
4 (S-TIX)	13 (S-CD)		1.0000	2
4 (S-TIX)	14 (S-CO)		0.9657	3

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
(S-TIX)	15	(S-CP)	0.4831	58
(S-TIX)	16	(S-CU)	-0.5012	16
(S-TIX)	17	(S-LA)	0.3364	73
(S-TIX)	18	(S-MO)	*****	1
(S-TIX)	19	(S-NB)	*****	2
(S-TIX)	20	(S-NI)	-0.2823	17
(S-TIX)	21	(S-PB)	0.2142	40
(S-TIX)	22	(S-SB)	0.2298	7
(S-TIX)	23	(S-SC)	0.6938	62
(S-TIX)	24	(S-SN)	-0.4004	6
(S-TIX)	25	(S-SR)	-0.0991	49
(S-TIX)	26	(S-V)	0.3799	63
(S-TIX)	27	(S-W)	*****	0
(S-TIX)	28	(S-Y)	0.8204	73
(S-TIX)	29	(S-ZN)	-0.5916	4
(S-TIX)	30	(S-ZR)	*****	1
(S-TIX)	31	(S-TH)	*****	0
(S-TIX)	32	(INST-HG)	0.0256	33
(S-MN)	6	(S-AG)	0.2417	17
(S-MN)	7	(S-AS)	-0.7816	3
(S-MN)	8	(S-AU)	*****	0
(S-MN)	9	(S-B)	0.1185	90
(S-MN)	10	(S-BA)	0.0355	119
(S-MN)	11	(S-BE)	-0.1477	7
(S-MN)	12	(S-BI)	*****	1
(S-MN)	13	(S-CD)	-1.0000	2
(S-MN)	14	(S-CO)	-0.5740	7
(S-MN)	15	(S-CR)	0.0464	121
(S-MN)	16	(S-CU)	0.1076	39
(S-MN)	17	(S-LA)	0.4480	136
(S-MN)	18	(S-MO)	*****	1
(S-MN)	19	(S-NB)	0.4322	6
(S-MN)	20	(S-NI)	-0.0098	40
(S-MN)	21	(S-PB)	0.0914	88
(S-MN)	22	(S-SB)	0.4846	8
(S-MN)	23	(S-SC)	-0.0065	125
(S-MN)	24	(S-SN)	-0.7547	12
(S-MN)	25	(S-SR)	0.1593	67
(S-MN)	26	(S-V)	0.2118	126
(S-MN)	27	(S-W)	*****	0
(S-MN)	28	(S-Y)	0.2391	136
(S-MN)	29	(S-ZN)	0.1172	5
(S-MN)	30	(S-ZR)	*****	1
(S-MN)	31	(S-TH)	*****	0
(S-MN)	32	(INST-HG)	-0.0449	64
(S-AG)	7	(S-AS)	-0.9541	3
(S-AG)	8	(S-AU)	*****	0
(S-AG)	9	(S-B)	-0.1106	16
(S-AG)	10	(S-BA)	0.3793	13
(S-AG)	11	(S-BE)	*****	1

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
6 (S-AG))	12 (S-BI)	*****	0
6 (S-AG))	13 (S-CD)	-1.0000	2
5 (S-AG )	)	14 (S-CD)	0.5903	5
5 (S-AG )	)	15 (S-CR)	-0.6896	16
5 (S-AG )	)	16 (S-CU)	0.8926	15
5 (S-AG )	)	17 (S-LA)	-0.4334	17
5 (S-AG )	)	18 (S-MO)	*****	1
5 (S-AG )	)	19 (S-NB)	*****	0
5 (S-AG )	)	20 (S-NI)	0.5777	12
5 (S-AG )	)	21 (S-PB)	0.8621	15
5 (S-AG )	)	22 (S-SB)	-0.3428	5
5 (S-AG )	)	23 (S-SC)	-0.2052	17
5 (S-AG )	)	24 (S-SN)	0.5353	3
5 (S-AG )	)	25 (S-SP)	-0.3424	12
5 (S-AG )	)	26 (S-V)	-0.7510	17
5 (S-AG )	)	27 (S-W)	*****	0
5 (S-AG )	)	28 (S-Y)	-0.8428	17
5 (S-AG )	)	29 (S-ZN)	0.9157	4
5 (S-AG )	)	30 (S-ZR)	*****	0
5 (S-AG )	)	31 (S-TH)	*****	0
5 (S-AG )	)	32 (INST-HG)	0.0151	9
5 (S-AS )	)	8 (S-AU)	*****	0
5 (S-AS )	)	9 (S-B)	-0.1495	3
5 (S-AS )	)	10 (S-BA)	1.0000	2
5 (S-AS )	)	11 (S-BE)	*****	0
5 (S-AS )	)	12 (S-BI)	*****	0
5 (S-AS )	)	13 (S-CD)	1.0000	2
5 (S-AS )	)	14 (S-CD)	0.9938	3
5 (S-AS )	)	15 (S-CR)	*****	2
5 (S-AS )	)	16 (S-CU)	-0.1495	3
5 (S-AS )	)	17 (S-LA)	-0.7816	3
5 (S-AS )	)	18 (S-MO)	*****	1
5 (S-AS )	)	19 (S-NB)	*****	0
5 (S-AS )	)	20 (S-NI)	0.5680	3
5 (S-AS )	)	21 (S-PB)	*****	1
5 (S-AS )	)	22 (S-SB)	0.7816	3
5 (S-AS )	)	23 (S-SC)	*****	3
5 (S-AS )	)	24 (S-SN)	*****	1
5 (S-AS )	)	25 (S-SP)	0.9310	3
5 (S-AS )	)	26 (S-V)	0.1495	3
5 (S-AS )	)	27 (S-W)	*****	0
5 (S-AS )	)	28 (S-Y)	0.9694	3
5 (S-AS )	)	29 (S-ZN)	-1.0000	2
5 (S-AS )	)	30 (S-ZR)	*****	0
5 (S-AS))	31 (S-TH)	*****	0
5 (S-AS))	32 (INST-HG)	*****	0
5 (S-AU))	9 (S-B)	*****	0
5 (S-AU))	10 (S-BA)	*****	0
5 (S-AU))	11 (S-BE)	*****	0
5 (S-AU))	12 (S-BI)	*****	0

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
8 (S-AU))	13 (S-CD)	*****	0
8 (S-AU))	14 (S-CO)	*****	0
8 (S-AU )	)	15 (S-CR)	*****	0
8 (S-AU )	)	16 (S-CU)	*****	0
8 (S-AU )	)	17 (S-LA)	*****	0
8 (S-AU )	)	18 (S-MO)	*****	0
8 (S-AU )	)	19 (S-NB)	*****	0
8 (S-AU )	)	20 (S-NI)	*****	0
8 (S-AU )	)	21 (S-PB)	*****	0
8 (S-AU )	)	22 (S-SB)	*****	0
8 (S-AU )	)	23 (S-SC)	*****	0
8 (S-AU )	)	24 (S-SN)	*****	0
8 (S-AU )	)	25 (S-SR)	*****	0
8 (S-AU )	)	26 (S-V)	*****	0
8 (S-AU )	)	27 (S-W)	*****	0
8 (S-AU )	)	28 (S-Y)	*****	0
8 (S-AU )	)	29 (S-ZN)	*****	0
8 (S-AU )	)	30 (S-ZR)	*****	0
8 (S-AU )	)	31 (S-TH)	*****	0
8 (S-AU )	)	32 (INST-HG)	*****	0
9 (S-B )	)	10 (S-BA)	0.2478	81
9 (S-B )	)	11 (S-BE)	*****	3
9 (S-B )	)	12 (S-BI)	*****	0
9 (S-B )	)	13 (S-CD)	*****	2
9 (S-B )	)	14 (S-CO)	-0.4602	6
9 (S-B )	)	15 (S-CR)	0.1410	86
9 (S-B )	)	16 (S-CU)	0.2233	35
9 (S-B )	)	17 (S-LA)	-0.1056	90
9 (S-B )	)	18 (S-MO)	*****	1
9 (S-B )	)	19 (S-NB)	*****	1
9 (S-B )	)	20 (S-NI)	0.1463	30
9 (S-B )	)	21 (S-PB)	0.3444	62
9 (S-B )	)	22 (S-SB)	0.4581	6
9 (S-B )	)	23 (S-SC)	0.1200	88
9 (S-B )	)	24 (S-SN)	-0.0696	8
9 (S-B )	)	25 (S-SR)	-0.0843	76
9 (S-B )	)	26 (S-V)	0.1133	89
9 (S-B )	)	27 (S-W)	*****	0
9 (S-B )	)	28 (S-Y)	0.1190	90
9 (S-B )	)	29 (S-ZN)	-0.0242	5
9 (S-B )	)	30 (S-ZR)	*****	0
9 (S-B )	)	31 (S-TH)	*****	0
9 (S-B )	)	32 (INST-HG)	0.0226	47
10 (S-BA )	)	11 (S-BE)	-0.4705	6
10 (S-BA )	)	12 (S-BI)	*****	0
10 (S-BA )	)	13 (S-CD)	*****	1
10 (S-BA))	14 (S-CO)	0.5161	5
10 (S-BA))	15 (S-CR)	0.1836	105
10 (S-BA))	16 (S-CU)	0.2712	33
10 (S-BA))	17 (S-LA)	-0.1751	119

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
10 (S-BA))	18 (S-MO)	*****	1
10 (S-BA))	19 (S-NB)	-0.5707	4
10 (S-BA )	)	20 (S-NI)	0.3795	34
10 (S-BA )	)	21 (S-PB)	0.3486	75
10 (S-BA )	)	22 (S-SB)	0.1901	7
10 (S-BA )	)	23 (S-SC)	0.1084	108
10 (S-BA )	)	24 (S-SN)	0.2432	9
10 (S-BA )	)	25 (S-SR)	0.2435	52
10 (S-BA )	)	26 (S-V)	0.0858	109
10 (S-BA )	)	27 (S-W)	*****	0
10 (S-BA )	)	28 (S-Y)	0.1616	119
10 (S-BA )	)	29 (S-ZN)	0.6928	4
10 (S-BA )	)	30 (S-ZR)	*****	1
10 (S-BA )	)	31 (S-TH)	*****	0
10 (S-BA )	)	32 (INST-HG)	0.1483	55
11 (S-BF )	)	12 (S-BI)	*****	0
11 (S-BE )	)	13 (S-CD)	*****	0
11 (S-BE )	)	14 (S-CO)	*****	0
11 (S-BE )	)	15 (S-CR)	0.3117	6
11 (S-BE )	)	16 (S-CU)	*****	2
11 (S-BE )	)	17 (S-LA)	0.3445	7
11 (S-BE )	)	18 (S-MO)	*****	0
11 (S-BE )	)	19 (S-NB)	*****	0
11 (S-BE )	)	20 (S-NI)	*****	2
11 (S-BE )	)	21 (S-PB)	*****	5
11 (S-BE )	)	22 (S-SB)	*****	0
11 (S-BE )	)	23 (S-SC)	0.0273	5
11 (S-BE )	)	24 (S-SN)	*****	0
11 (S-BE )	)	25 (S-SR)	-0.5124	5
11 (S-BE )	)	26 (S-V)	-0.7566	5
11 (S-BE )	)	27 (S-W)	*****	0
11 (S-BE )	)	28 (S-Y)	0.1419	7
11 (S-BE )	)	29 (S-ZN)	*****	1
11 (S-BE )	)	30 (S-ZR)	*****	0
11 (S-BE )	)	31 (S-TH)	*****	0
11 (S-BE )	)	32 (INST-HG)	*****	4
12 (S-BI )	)	13 (S-CD)	*****	0
12 (S-BI )	)	14 (S-CO)	*****	0
12 (S-BI )	)	15 (S-CR)	*****	1
12 (S-BI )	)	16 (S-CU)	*****	0
12 (S-BI )	)	17 (S-LA)	*****	1
12 (S-BI )	)	18 (S-MO)	*****	0
12 (S-BI )	)	19 (S-NB)	*****	0
12 (S-BI )	)	20 (S-NI)	*****	0
12 (S-BI))	21 (S-PB)	*****	0
12 (S-BI))	22 (S-SB)	*****	0
12 (S-BI))	23 (S-SC)	*****	1
12 (S-BI))	24 (S-SN)	*****	0
12 (S-BI))	25 (S-SR)	*****	1
12 (S-BI))	26 (S-V)	*****	1

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
12 (S-BI))	27 (S-W)	*****	0
12 (S-BI))	28 (S-Y)	*****	1
12 (S-BI )	)	29 (S-ZN)	*****	0
12 (S-BI )	)	30 (S-ZR)	*****	0
12 (S-BI )	)	31 (S-TH)	*****	0
12 (S-BI )	)	32 (INST-HG)	*****	0
13 (S-CD )	)	14 (S-CN)	1.0000	2
13 (S-CD )	)	15 (S-CR)	*****	1
13 (S-CD )	)	16 (S-CJ)	*****	2
13 (S-CD )	)	17 (S-LA)	-1.0000	2
13 (S-CD )	)	18 (S-MO)	*****	0
13 (S-CD )	)	19 (S-NB)	*****	0
13 (S-CD )	)	20 (S-NI)	1.0000	2
13 (S-CD )	)	21 (S-PB)	*****	1
13 (S-CD )	)	22 (S-SB)	1.0000	2
13 (S-CD )	)	23 (S-SC)	*****	2
13 (S-CD )	)	24 (S-SN)	*****	1
13 (S-CD )	)	25 (S-SR)	1.0000	2
13 (S-CD )	)	26 (S-V)	*****	2
13 (S-CD )	)	27 (S-W)	*****	0
13 (S-CD )	)	28 (S-Y)	1.0000	2
13 (S-CD )	)	29 (S-ZN)	*****	1
13 (S-CD )	)	30 (S-ZR)	*****	0
13 (S-CD )	)	31 (S-TH)	*****	0
13 (S-CD )	)	32 (INST-HG)	*****	0
14 (S-CO )	)	15 (S-CR)	-0.9710	6
14 (S-CO )	)	16 (S-CU)	0.8406	6
14 (S-CO )	)	17 (S-LA)	-0.9232	7
14 (S-CO )	)	18 (S-MO)	*****	1
14 (S-CO )	)	19 (S-NB)	*****	0
14 (S-CO )	)	20 (S-NI)	0.7927	7
14 (S-CO )	)	21 (S-PB)	0.6306	5
14 (S-CO )	)	22 (S-SB)	0.7076	3
14 (S-CO )	)	23 (S-SC)	-0.7391	7
14 (S-CO )	)	24 (S-SN)	*****	1
14 (S-CO )	)	25 (S-SR)	-0.5961	5
14 (S-CO )	)	26 (S-V)	-0.8028	7
14 (S-CO )	)	27 (S-W)	*****	0
14 (S-CO )	)	28 (S-Y)	-0.6819	7
14 (S-CO )	)	29 (S-ZN)	0.4570	3
14 (S-CO )	)	30 (S-ZR)	*****	0
14 (S-CO )	)	31 (S-TH)	*****	0
14 (S-CO )	)	32 (INST-HG)	*****	2
15 (S-CR )	)	16 (S-CJ)	-0.1964	38
15 (S-CR )	)	17 (S-LA)	0.0690	121
15 (S-CR )	)	18 (S-MO)	*****	1
15 (S-CR))	19 (S-NB)	0.6051	6
15 (S-CR))	20 (S-NI)	-0.3032	39
15 (S-CR))	21 (S-PB)	0.3743	85
15 (S-CR))	22 (S-SB)	0.1789	7

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
15 (S-CR))	23 (S-SC)	0.6658	118
15 (S-CR )	)	24 (S-SN)	-0.2835	12
15 (S-CR )	)	25 (S-SR)	0.3394	52
15 (S-CR )	)	26 (S-V)	0.5920	118
15 (S-CR )	)	27 (S-W)	*****	0
15 (S-CR )	)	28 (S-Y)	0.6058	121
15 (S-CR )	)	29 (S-ZN)	-0.8479	4
15 (S-CR )	)	30 (S-ZR)	*****	0
15 (S-CR )	)	31 (S-TH)	*****	0
15 (S-CR )	)	32 (INST-HG)	-0.0816	59
16 (S-CU )	)	17 (S-LA)	-0.2664	39
16 (S-CU )	)	18 (S-YO)	*****	1
16 (S-CU )	)	19 (S-NB)	*****	1
16 (S-CU )	)	20 (S-NI)	0.6581	26
16 (S-CU )	)	21 (S-PB)	0.4991	33
16 (S-CU )	)	22 (S-SB)	0.3127	7
16 (S-CU )	)	23 (S-SC)	-0.4282	39
16 (S-CU )	)	24 (S-SN)	-0.5790	3
16 (S-CU )	)	25 (S-SR)	-0.0738	18
16 (S-CU )	)	26 (S-V)	-0.4007	39
16 (S-CU )	)	27 (S-W)	*****	0
16 (S-CU )	)	28 (S-Y)	-0.4502	39
16 (S-CU )	)	29 (S-ZN)	0.8296	5
16 (S-CU )	)	30 (S-ZR)	*****	0
16 (S-CU )	)	31 (S-TH)	*****	0
16 (S-CU )	)	32 (INST-HG)	-0.0690	23
17 (S-LA )	)	18 (S-YO)	*****	1
17 (S-LA )	)	19 (S-NB)	0.4724	6
17 (S-LA )	)	20 (S-NI)	-0.4102	40
17 (S-LA )	)	21 (S-PB)	-0.0066	88
17 (S-LA )	)	22 (S-SB)	-0.1026	8
17 (S-LA )	)	23 (S-SC)	0.0343	125
17 (S-LA )	)	24 (S-SN)	-0.4112	12
17 (S-LA )	)	25 (S-SP)	-0.0042	67
17 (S-LA )	)	26 (S-V)	0.0195	126
17 (S-LA )	)	27 (S-W)	*****	0
17 (S-LA )	)	28 (S-Y)	0.1292	136
17 (S-LA )	)	29 (S-ZN)	-0.8273	5
17 (S-LA )	)	30 (S-ZR)	*****	1
17 (S-LA )	)	31 (S-TH)	*****	0
17 (S-LA )	)	32 (INST-HG)	-0.1911	64
18 (S-MO )	)	19 (S-NB)	*****	0
18 (S-MO )	)	20 (S-NI)	*****	1
18 (S-MO )	)	21 (S-PB)	*****	0
18 (S-MO )	)	22 (S-SB)	*****	1
18 (S-MO )	)	23 (S-SC)	*****	1
18 (S-MO )	)	24 (S-SN)	*****	0
18 (S-MO )	)	25 (S-SR)	*****	1
18 (S-MO))	26 (S-V)	*****	1
18 (S-MO))	27 (S-W)	*****	0

DO101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
18 (S-MO))	28 (S-Y)	*****	1
18 (S-MO))	29 (S-ZN)	*****	1
18 (S-MO )	)	30 (S-ZR)	*****	0
18 (S-MO )	)	31 (S-TH)	*****	0
18 (S-MO )	)	32 (INST-HG)	*****	0
19 (S-NB )	)	20 (S-NI)	*****	3
19 (S-NB )	)	21 (S-PB)	-0.2549	5
19 (S-NB )	)	22 (S-SB)	*****	0
19 (S-NB )	)	23 (S-SC)	0.8491	6
19 (S-NB )	)	24 (S-SN)	1.0000	2
19 (S-NB )	)	25 (S-SR)	-1.0000	2
19 (S-NB )	)	26 (S-V)	0.7501	6
19 (S-NB )	)	27 (S-W)	*****	0
19 (S-NB )	)	28 (S-Y)	0.5674	6
19 (S-NB )	)	29 (S-ZN)	*****	0
19 (S-NB )	)	30 (S-ZR)	*****	0
19 (S-NB )	)	31 (S-TH)	*****	0
19 (S-NB )	)	32 (INST-HG)	*****	1
20 (S-NI )	)	21 (S-PB)	0.4054	32
20 (S-NI )	)	22 (S-SB)	0.0978	7
20 (S-NI )	)	23 (S-SC)	-0.2193	40
20 (S-NI )	)	24 (S-SN)	0.7897	4
20 (S-NI )	)	25 (S-SR)	-0.2028	13
20 (S-NI )	)	26 (S-V)	-0.3528	40
20 (S-NI )	)	27 (S-W)	*****	0
20 (S-NI )	)	28 (S-Y)	-0.0941	40
20 (S-NI )	)	29 (S-ZN)	0.8157	5
20 (S-NI )	)	30 (S-ZR)	*****	0
20 (S-NI )	)	31 (S-TH)	*****	0
20 (S-NI )	)	32 (INST-HG)	-0.1501	19
21 (S-PB )	)	22 (S-SB)	-0.0552	5
21 (S-PB )	)	23 (S-SC)	-0.0948	86
21 (S-PB )	)	24 (S-SN)	0.5931	9
21 (S-PB )	)	25 (S-SR)	0.2562	35
21 (S-PB )	)	26 (S-V)	0.1216	86
21 (S-PB )	)	27 (S-W)	*****	0
21 (S-PB )	)	28 (S-Y)	0.0170	86
21 (S-PB )	)	29 (S-ZN)	-0.8110	3
21 (S-PB )	)	30 (S-ZR)	*****	1
21 (S-PB )	)	31 (S-TH)	*****	0
21 (S-PB )	)	32 (INST-HG)	0.2082	44
22 (S-SB )	)	23 (S-SC)	0.3778	8
22 (S-SB )	)	24 (S-SN)	-0.7321	3
22 (S-SB )	)	25 (S-SR)	0.7285	5
22 (S-SB )	)	26 (S-V)	0.4928	8
22 (S-SB )	)	27 (S-W)	*****	0
22 (S-SB )	)	28 (S-Y)	0.4188	8
22 (S-SB )	)	29 (S-ZN)	-0.8811	3
22 (S-SB )	)	30 (S-ZR)	*****	0
22 (S-SB )	)	31 (S-TH)	*****	0

D0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
22 (S-SB )	)	32 (INST-HG)	*****	1
23 (S-SC )	)	24 (S-SM)	-0.4052	12
23 (S-SC )	)	25 (S-SR)	0.2284	56
23 (S-SC )	)	26 (S-V)	0.5866	123
23 (S-SC )	)	27 (S-W)	*****	0
23 (S-SC )	)	28 (S-Y)	0.8197	125
23 (S-SC )	)	29 (S-ZN)	-0.5233	5
23 (S-SC )	)	30 (S-ZR)	*****	1
23 (S-SC )	)	31 (S-TH)	*****	0
23 (S-SC )	)	32 (INST-HG)	0.0624	60
24 (S-SN )	)	25 (S-SR)	-0.8314	4
24 (S-SN )	)	26 (S-V)	-0.3053	12
24 (S-SN )	)	27 (S-W)	*****	0
24 (S-SN )	)	28 (S-Y)	-0.3610	12
24 (S-SN )	)	29 (S-ZN)	*****	0
24 (S-SN )	)	30 (S-ZR)	*****	0
24 (S-SN )	)	31 (S-TH)	*****	0
24 (S-SN )	)	32 (INST-HG)	0.9863	3
25 (S-SR )	)	26 (S-V)	0.2848	57
25 (S-SR )	)	27 (S-W)	*****	0
25 (S-SR )	)	28 (S-Y)	0.1521	67
25 (S-SR )	)	29 (S-ZN)	-0.9807	4
25 (S-SR )	)	30 (S-ZR)	*****	1
25 (S-SR )	)	31 (S-TH)	*****	0
25 (S-SR )	)	32 (INST-HG)	0.0431	33
26 (S-V )	)	27 (S-W)	*****	0
26 (S-V )	)	28 (S-Y)	0.4951	126
26 (S-V )	)	29 (S-ZN)	-0.8589	5
26 (S-V )	)	30 (S-ZR)	*****	1
26 (S-V )	)	31 (S-TH)	*****	0
26 (S-V )	)	32 (INST-HG)	-0.0671	61
27 (S-W )	)	28 (S-Y)	*****	0
27 (S-W )	)	29 (S-ZN)	*****	0
27 (S-W )	)	30 (S-ZR)	*****	0
27 (S-W )	)	31 (S-TH)	*****	0
27 (S-W )	)	32 (INST-HG)	*****	0
28 (S-Y )	)	29 (S-ZN)	-0.9482	5
28 (S-Y )	)	30 (S-ZR)	*****	1
28 (S-Y )	)	31 (S-TH)	*****	0
28 (S-Y )	)	32 (INST-HG)	0.1035	64
29 (S-ZN )	)	30 (S-ZR)	*****	0
29 (S-ZN )	)	31 (S-TH)	*****	0
29 (S-ZN )	)	32 (INST-HG)	*****	1
30 (S-ZR )	)	31 (S-TH)	*****	0
30 (S-ZR )	)	32 (INST-HG)	*****	0
31 (S-TH )	)	32 (INST-HG)	*****	0

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

TITLE	INPUT ID	N	M	***** OPTIONS *****
groom	-ds-2	135	32	1 0 0 0 2 1 0 0 0 0

- VARIABLE NO. 8 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- THE MAX AND MIN 0.13010E+01 FOR VARIABLE NO. 12 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- THE MAX AND MIN 0.10000E+01 FOR VARIABLE NO. 18 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 27 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- THE MAX AND MIN 0.33010E+01 FOR VARIABLE NO. 30 ARE THE SAME. THEREFORE THIS VARIABLE WILL BE SKIPPED.
- VARIABLE NO. 31 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/P2)

DATE 7/10/85

ROOM

FREQUENCY TABLE FOR VARIABLE 1 (S-FEX)

LOG LIMITS LOWER - UPPER	ORBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00		
-9.170E-01 - -7.503E-01	4	4	2.94	2.94	5.01	5.01
-7.503E-01 - -5.837E-01	22	26	16.18	19.12	9.50	3.18
-5.837E-01 - -4.170E-01	47	73	34.56	53.68	18.38	0.71
-4.170E-01 - -2.503E-01	27	100	19.85	73.57	26.66	15.52
-2.503E-01 - -8.367E-02	16	116	11.76	85.29	28.97	0.13
-8.367E-02 - 8.300E-02	10	126	7.35	92.65	23.58	2.44
8.300E-02 - 2.497E-01	5	131	3.68	96.32	14.38	1.33
2.497E-01 - 4.163E-01	2	133	1.47	97.79	6.57	0.37
4.163E-01 - 5.837E-01	1	134	0.74	98.57	2.25	0.03
5.837E-01 - 7.497E-01	1	135	0.74	99.26	0.58	0.31
7.497E-01 - 9.163E-01	0	135	0.00	99.26	0.11	7.16
9.163E-01 - 1.083E+00	1	136	0.74	100.00	0.02	0.02
G	0	136	0.00	100.00	0.00	538.77
H	0	136	0.00	100.00	5.01	5.01
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 1 (S-FEX)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

1.467E-01 xxx
2.153E-01 xxxxxxxxxxxxxxxxx
3.160E-01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
4.638E-01 xxxxxxxxxxxxxxxxxxxxxxx
6.808E-01 xxxxxxxxxxxxxx
9.992E-01 xxxxxxxx
1.467E+00 xxxxx
2.153E+00 x
3.160E+00 x
4.638E+00 x
6.808E+00
9.992E+00 x

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.50000E-01
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 4.27477E-01
GEOMETRIC DEVIATION = 2.02466E+00
VARIANCE OF LOGS = 9.38514E-02

```

PERCENT TABLE FOR VARIABLE 1 (S-FEX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION.

THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

Handwritten marks

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.300188E-02	1.354391E+00
95.00	1.896689E-01	1.547636E+00
98.00	4.630027E-01	2.904041E+00

groom

FREQUENCY TABLE FOR VARIABLE 2 (S-MGZ)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	5.62	5.62
-1.417E+00	-1.250E+00	5	5	3.68	3.68	5.57	0.26
-1.250E+00	-1.084E+00	8	13	5.88	9.56	8.96	0.10
-1.084E+00	-9.170E-01	23	36	16.91	26.47	12.91	8.11
-9.170E-01	-7.503E-01	28	64	20.59	47.06	16.27	8.46
-7.503E-01	-5.837E-01	20	84	14.71	51.76	18.36	0.15
-5.837E-01	-4.170E-01	9	93	6.62	58.38	18.41	4.81
-4.170E-01	-2.503E-01	9	102	6.62	75.00	16.40	3.74
-2.503E-01	-8.366E-02	9	111	6.62	81.62	12.98	1.22
-8.366E-02	8.300E-02	10	121	7.35	88.97	9.13	0.08
8.300E-02	2.497E-01	4	125	2.94	91.91	5.70	0.51
2.497E-01	4.163E-01	5	130	3.68	95.59	3.17	1.06
4.163E-01	5.830E-01	3	133	2.21	97.79	1.56	1.77
5.830E-01	7.497E-01	3	136	2.21	100.00	1.08	3.41
G		0	136	0.00	100.00	5.62	5.62
H		0	136				
B		0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 2 (S-MGZ) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.639E-02  XXXX
6.808E-02  XXXXXX
9.992E-02  XXXXXXXXXXXXXXXXXXXX
1.467E-01  XXXXXXXXXXXXXXXXXXXXXX
2.153E-01  XXXXXXXXXXXXXXXXXXXX
3.160E-01  XXXXXXXX
4.639E-01  XXXXXXXX
6.808E-01  XXXXXXXX
9.992E-01  XXXXXXXX
1.467E+00  XXX
2.153E+00  XXXX
3.160E+00  XX
4.639E+00  XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E-02
MAXIMUM ANTILOG = 5.00000E+00
GEOMETRIC MEAN = 2.63095E-01
GEOMETRIC DEVIATION = 3.03569E+00
VARIANCE OF LOGS = 2.32573E-01

```

PERCENT TABLE FOR VARIABLE 2 (S-MGX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.413364E-01	1.384639E+00
95.00	3.896703E-01	2.452846E+00
98.00	1.000000E+35	1.000000E+35

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

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groom

FREQUENCY TABLE FOR VARIABLE 3 (S-CAX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	0.67	0.67
-7.500E-01 - -5.833E-01	1	1	0.74	0.74	1.23	0.04
-5.833E-01 - -4.167E-01	2	3	1.47	2.21	2.87	0.24
-4.167E-01 - -2.500E-01	10	17	7.35	9.56	5.64	3.77
-2.500E-01 - -8.333E-02	8	21	5.88	15.44	9.70	0.30
-8.333E-02 - 8.333E-02	17	38	12.50	27.94	14.43	0.46
8.333E-02 - 2.500E-01	14	52	10.29	38.24	18.56	1.12
2.500E-01 - 4.167E-01	20	72	14.71	52.94	20.67	0.07
4.167E-01 - 5.833E-01	22	94	16.18	59.12	19.82	0.24
5.833E-01 - 7.500E-01	16	110	11.76	80.88	16.47	0.01
7.500E-01 - 9.167E-01	6	116	4.41	85.29	11.83	2.87
9.167E-01 - 1.083E+00	13	129	9.56	94.85	7.34	4.76
1.083E+00 - 1.250E+00	7	136	5.15	100.00	6.86	0.00
G	0	136	0.00	100.00	0.67	0.67
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 3 (S-CAX)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E-01 X
3.162E-01 X
4.642E-01 XXXXXXXX
6.813E-01 XXXXXX
1.000E+00 XXXXXXXXXXXXXXXX
1.468E+00 XXXXXXXXXXXXX
2.154E+00 XXXXXXXXXXXXXXXXXXXX
3.162E+00 XXXXXXXXXXXXXXXXXXXX
4.642E+00 XXXXXXXXXXXXXXXX
6.813E+00 XXXX
1.000E+01 XXXXXXXXXXXXX
1.468E+01 XXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E-01
MAXIMUM ANTILOG = 1.50000E+01
GEOMETRIC MEAN = 2.35039E+00
GEOMETRIC DEVIATION = 2.71704E+00
VARIANCE OF LOGS = 1.88439E-01

```

PERCENT TABLE FOR VARIABLE 3 (S-CAX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,

THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	9.987214E-01	9.970603E+00
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 4 (S-TIZ)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.00	0.00
-1.084E+00	-9.173E-01	1	1	0.74	0.74	0.00	235.58
-9.173E-01	-7.507E-01	2	3	1.47	2.21	0.04	90.51
-7.507E-01	-5.840E-01	4	7	2.94	5.15	0.32	42.88
-5.840E-01	-4.173E-01	0	7	0.00	5.15	1.65	1.65
-4.173E-01	-2.507E-01	7	14	5.15	10.29	5.97	0.18
-2.507E-01	-8.400E-02	3	17	2.21	12.50	15.07	9.66
-8.400E-02	8.267E-02	6	23	4.41	16.91	26.52	15.88
8.267E-02	2.493E-01	15	38	11.03	27.94	32.55	9.47
2.493E-01	4.166E-01	35	73	25.74	53.68	53.88	6.62
G		63	136	46.32	100.00	0.00	0.00
H		0	136				
B		0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 4 (S-TIZ)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E-02 X
1.466E-01 X
2.151E-01 XXX
3.157E-01
4.634E-01 XXXXX
6.802E-01 XX
9.985E-01 XXXX
1.466E+00 XXXXXXXXXXXX
2.151E+00 XXXXXXXXXXXXXXXXXXXXXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

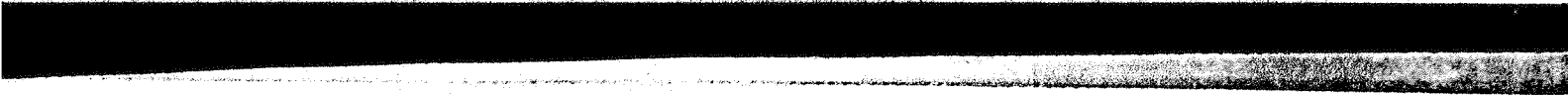
```

MINIMUM ANTILOG = 1.00000E-01
MAXIMUM ANTILOG = 2.00000E+00
GEOMETRIC MEAN = 1.17682E+00
GEOMETRIC DEVIATION = 2.18435E+00
VARIANCE OF LOGS = 1.15139E-01

```

PERCENT TABLE FOR VARIABLE 4 (S-TIZ) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35



95.00
98.00

1.000000E+35
1.000000E+35

1.000000E+35
1.000000E+35

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groom

FREQUENCY TABLE FOR VARIABLE 5 (S-MN)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	1.31	1.31
1.916E+00 - 2.083E+00	3	3	2.21	2.21	6.22	1.67
2.083E+00 - 2.249E+00	23	26	15.91	19.12	19.34	0.69
2.249E+00 - 2.416E+00	41	67	30.15	49.26	35.40	0.89
2.416E+00 - 2.583E+00	29	96	21.32	70.59	38.17	2.20
2.583E+00 - 2.749E+00	29	125	21.32	91.91	24.23	0.94
2.749E+00 - 2.916E+00	11	136	8.09	100.00	11.33	0.01
G	0	136	0.00	100.00	1.31	1.31
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 5 (S-MN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+01 xx
1.466E+02 xxxxxxxxxxxxxxxxxxxxxx
2.151E+02 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
3.157E+02 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
4.634E+02 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
6.802E+02 xxxxxxxx
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 2.75213E+02
GEOMETRIC DEVIATION = 1.67436E+03
VARIANCE OF LOGS = 5.01086E-02
    
```

PERCENT TABLE FOR VARIABLE 5 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.734392E+00	5.424909E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

DOC36 GRAPHICAL ANALYSIS - U S S S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 6 (S-AG)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
N		116	116	85.29	85.29		
L		3	119	2.21	87.50		
T		0	119	0.00	87.50	41.51	41.51
-8.400E-02	- 8.267E-02	4	123	2.94	90.44	27.70	20.28
8.267E-02	- 2.493E-01	1	124	0.74	91.18	27.38	25.42
2.493E-01	- 4.160E-01	4	128	2.94	94.12	20.53	13.31
4.160E-01	- 5.827E-01	2	131	2.21	96.77	11.68	6.45
5.827E-01	- 7.493E-01	1	132	0.74	97.06	5.04	3.24
7.493E-01	- 9.160E-01	0	132	0.00	97.06	1.65	1.65
9.160E-01	- 1.083E+00	1	133	0.74	97.79	0.41	0.85
1.083E+00	- 1.249E+00	0	133	0.00	97.79	0.00	0.00
1.249E+00	- 1.416E+00	0	133	0.00	97.79	0.00	0.00
1.416E+00	- 1.583E+00	1	134	0.74	98.53	0.00	0.00
1.583E+00	- 1.749E+00	0	134	0.00	98.53	0.00	0.00
1.749E+00	- 1.916E+00	0	134	0.00	98.53	0.00	0.00
1.916E+00	- 2.083E+00	1	135	0.74	99.26	0.00	0.00
2.083E+00	- 2.249E+00	0	135	0.00	99.26	0.00	0.00
2.249E+00	- 2.416E+00	1	136	0.74	100.00	0.01	79.35
G		0	136	0.00	100.00	0.00	0.00
H		0	136				
B		0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 6 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

- 9.985E-01 xxx
- 1.466E+00 x
- 2.151E+00 xxx
- 3.157E+00 xx
- 4.634E+00 x
- 6.802E+00
- 9.985E+00 x
- 1.466E+01
- 2.151E+01
- 3.157E+01 x
- 4.635E+01
- 6.803E+01
- 9.985E+01 x
- 1.466E+02
- 2.151E+02 x

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+00
 MAXIMUM ANTILOG = 2.00000E+02
 GEOMETRIC MEAN = 4.02919E+00

GEOMETRIC DEVIATION = 4.99885E+03
VARIANCE OF LOGS = 4.88419E-01

PERCENT TABLE FOR VARIABLE 6 (S-AG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	4.826678E-01	3.038560E+00
98.00	1.222659E+00	1.559818E+01

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FREQUENCY TABLE FOR VARIABLE 7 (S-AS)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	133	133	97.79	97.79		
	L	0	133	0.00	97.79		
	T	0	133	0.00	97.79	0.79	0.79
2.583E+00	- 2.750E+00	1	134	0.74	98.53	111.37	109.38
2.750E+00	- 2.916E+00	0	134	0.00	98.53	0.00	0.00
2.916E+00	- 3.083E+00	1	135	0.74	99.26	0.00	0.00
3.083E+00	- 3.250E+00	1	136	0.74	100.00	23.84	21.89
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 7 (S-AS)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

4.638E+02 X
6.808E+02
9.992E+02 X
1.467E+03 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+02
MAXIMUM ANTILOG = 1.50000E+03
GEOMETRIC MEAN = 9.08560E+02
GEOMETRIC DEVIATION = 1.74290E+00
VARIANCE OF LOGS = 5.82119E-02

PERCENT TABLE FOR VARIABLE 7 (S-AS) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 9 (S-B)

LOG LOWER	LIMITS UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	6	6	4.41	4.41		
	L	40	46	29.41	33.82		
	T	0	46	0.00	33.82	35.71	35.71
1.250E+00	- 1.417E+00	42	88	30.88	64.71	25.41	10.84
1.417E+00	- 1.583E+00	21	109	15.44	80.15	27.07	1.36
1.583E+00	- 1.750E+00	12	121	8.82	88.97	22.70	4.82
1.750E+00	- 1.917E+00	7	128	5.15	94.12	14.39	3.79
1.917E+00	- 2.083E+00	3	131	2.21	96.32	7.18	2.43
2.083E+00	- 2.250E+00	2	133	1.47	97.79	2.78	0.22
2.250E+00	- 2.417E+00	1	134	0.74	98.53	0.84	0.03
2.417E+00	- 2.583E+00	0	134	0.00	98.53	0.20	0.20
2.583E+00	- 2.750E+00	0	134	0.00	98.53	0.04	0.04
2.750E+00	- 2.917E+00	0	134	0.00	98.53	0.00	0.00
2.917E+00	- 3.083E+00	0	134	0.00	98.53	0.00	0.00
3.083E+00	- 3.250E+00	1	135	0.74	99.26	0.00	0.00
3.250E+00	- 3.417E+00	0	135	0.00	99.26	0.00	0.00
3.417E+00	- 3.583E+00	0	135	0.00	99.26	0.00	0.00
3.583E+00	- 3.750E+00	1	136	0.74	100.00	0.01	177.31
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	R	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 9 (S-B) MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+01	XXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01	XXXXXXXXXXXXXXXXXXXX
4.642E+01	XXXXXXXXXX
6.813E+01	XXXXX
1.000E+02	XX
1.468E+02	X
2.154E+02	X
3.162E+02	
4.642E+02	
6.813E+02	
1.000E+03	
1.468E+03	X
2.154E+03	
3.162E+03	
4.642E+03	X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 5.00000E+03
 GEOMETRIC MEAN = 3.45801E+01

GEOMETRIC DEVIATION = 2.39440E+03
VARIANCE OF LOGS = 1.43790E-01

PERCENT TABLE FOR VARIABLE 9 (S-9) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.783334E+00	6.072037E+01
95.00	1.983335E+00	9.523539E+01
98.00	2.296669E+00	1.980016E+02

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FREQUENCY TABLE FOR VARIABLE 10 (S-BA)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
N		0	0	0.00	0.00		
L		0	0	0.00	0.00		
T		0	0	0.00	0.00	0.63	0.63
1.750E+00	1.917E+00	1	1	0.74	0.74	0.85	0.33
1.917E+00	2.083E+00	0	1	0.00	0.74	1.70	1.70
2.083E+00	2.250E+00	1	2	0.74	1.47	3.12	1.44
2.250E+00	2.417E+00	5	7	3.68	5.15	5.20	0.01
2.417E+00	2.583E+00	5	12	3.68	8.82	7.90	1.06
2.583E+00	2.750E+00	26	38	19.12	27.94	10.93	20.77
2.750E+00	2.917E+00	24	62	17.65	45.59	13.78	7.58
2.917E+00	3.083E+00	13	75	9.56	55.15	15.83	0.51
3.083E+00	3.250E+00	6	81	4.41	59.56	16.56	6.74
3.250E+00	3.417E+00	10	91	7.35	66.91	15.79	2.12
3.417E+00	3.583E+00	8	99	5.88	72.79	13.71	2.38
3.583E+00	3.750E+00	6	105	4.41	77.21	10.85	2.17
3.750E+00	3.917E+00	7	112	5.15	82.35	7.87	0.39
3.917E+00	4.083E+00	7	119	5.15	87.50	11.33	1.65
G		17	136	12.50	100.00	0.63	423.84
H		0	136				
B		0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 10 (S-BA) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

6.813E+01 X
1.000E+02
1.468E+02 X
2.154E+02 XXXX
3.162E+02 XXXX
4.642E+02 XXXXXXXXXXXXXXXXXXXX
6.813E+02 XXXXXXXXXXXXXXXXXXXX
1.000E+03 XXXXXXXXXXXX
1.468E+03 XXXX
2.154E+03 XXXXXXXX
3.162E+03 XXXXXX
4.642E+03 XXXX
6.813E+03 XXXXX
1.000E+04 XXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 7.00000E+01
MAXIMUM ANTILOG = 1.00000E+04
GEOMETRIC MEAN = 1.10930E+03
GEOMETRIC DEVIATION = 2.96903E+00
VARIANCE OF LOGS = 2.23364E-01

```

PERCENT TABLE FOR VARIABLE 10 (S-BA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E-50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 11 (S-BE)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOP FREQ (NORMAL DIST)	(THEOP FREQ - OBS FREQ)**2/THEOP FREQ
LOWER	UPPER						
	N	102	102	75.00	75.00		
	L	27	129	19.85	94.85		
	T	0	129	0.00	94.85	7.74	7.74
2.500E-01	4.167E-01	6	135	4.41	99.26	128.19	116.48
4.167E-01	5.833E-01	0	135	0.00	99.26	0.00	0.00
5.833E-01	7.500E-01	1	135	0.74	100.00	0.07	13.44
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				
TOTALS LESS H AND B		136					

HISTOGRAM FOR VARIABLE 11 (S-BE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+00 XXXX
3.162E+00
4.642E+00 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNADJUSTED VALUES ONLY

MINIMUM ANTILOG = 2.000000E+00
MAXIMUM ANTILOG = 5.000000E+00
GEOMETRIC MEAN = 2.279700E+00
GEOMETRIC DEVIATION = 1.413860E+00
VARIANCE OF LOGS = 2.262230E-02

PERCENT TABLE FOR VARIABLE 11 (S-BE) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 13 (S-CD)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	133	133	97.79	97.79		
	L	1	134	0.74	98.53		
	T	0	134	0.00	98.53	0.00	0.00
1.583E+00	- 1.750E+00	1	135	0.74	99.26	131.92	129.92
1.750E+00	- 1.916E+00	0	135	0.00	99.26	0.00	0.00
1.916E+00	- 2.083E+00	1	136	0.74	100.00	4.08	2.33
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				
TOTALS LESS H AND B			136				

HISTOGRAM FOR VARIABLE 13 (S-CD)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

4.638E+01 X
6.808E+01
9.992E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 7.07107E+01
GEOMETRIC DEVIATION = 1.63253E+00
VARIANCE OF LOGS = 4.53095E-02

PERCENT TABLE FOR VARIABLE 13 (S-CD) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 14 (S-CO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	120	120	88.24	88.24		
L	9	129	6.62	94.85	21.36	21.36
T	0	129	0.00	94.85	82.28	74.47
9.160E-01 - 1.083E+00	4	133	2.94	97.79	31.34	31.34
1.083E+00 - 1.249E+00	0	133	0.00	97.79	1.02	0.00
1.249E+00 - 1.416E+00	1	134	0.74	98.53	0.00	0.00
1.416E+00 - 1.583E+00	0	134	0.00	98.53	0.00	0.00
1.583E+00 - 1.749E+00	1	135	0.74	99.26	0.00	0.00
1.749E+00 - 1.916E+00	1	136	0.74	100.00	0.00	443.75
G	0	136	0.00	100.00	0.00	0.00
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 14 (S-CO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

9.985E+00 XXX
1.466E+01
2.151E+01 X
3.157E+01
4.634E+01 X
6.802E+01 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.000000E+01
MAXIMUM ANTILOG = 7.000000E+01
GEOMETRIC MEAN = 1.834799E+01
GEOMETRIC DEVIATION = 2.32674E+00
VARIANCE OF LOGS = 1.34505E-01

PERCENT TABLE FOR VARIABLE 14 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.176000E+00	1.499687E+01

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FREQUENCY TABLE FOR VARIABLE 15 (S-CR)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	3	3	2.21	2.21		
	L	12	15	8.82	11.03		
	T	0	15	0.00	11.03	5.68	5.68
1.250E+00	- 1.417E+00	17	32	12.50	23.53	15.59	0.13
1.417E+00	- 1.583E+00	12	44	8.82	32.35	31.30	11.90
1.583E+00	- 1.750E+00	46	90	33.82	66.18	38.19	1.60
1.750E+00	- 1.917E+00	33	123	24.26	90.44	28.33	0.77
1.917E+00	- 2.083E+00	13	136	9.56	100.00	16.91	0.90
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 15 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+01 xxxxxxxxxxxxxx
3.162E+01 xxxxxxxxxx
4.642E+01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
6.813E+01 xxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxxx
1.000E+02 xxxxxxxxxx

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 4.93463E+01
GEOMETRIC DEVIATION = 1.61210E+00
VARIANCE OF LOGS = 4.70115E-02

```

PERCENT TABLE FOR VARIABLE 15 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.913639E+00	8.195674E+01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 16 (S-CU)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	84	84	61.76	51.76		
	L	13	97	9.56	71.32		
	T	0	97	0.00	71.32	37.12	37.12
9.160E-01	- 1.083E+00	12	109	8.22	80.15	24.23	6.17
1.083E+00	- 1.249E+00	6	115	4.41	84.56	25.67	15.08
1.249E+00	- 1.416E+00	6	121	4.41	88.97	21.68	11.34
1.416E+00	- 1.583E+00	5	126	3.68	92.65	14.59	6.31
1.583E+00	- 1.749E+00	3	129	2.21	94.85	7.83	2.98
1.749E+00	- 1.916E+00	2	131	1.47	96.32	3.35	0.54
1.916E+00	- 2.083E+00	1	132	0.74	97.06	1.14	0.02
2.083E+00	- 2.249E+00	0	132	0.00	97.06	0.31	0.31
2.249E+00	- 2.416E+00	1	133	0.74	97.79	0.07	13.03
2.416E+00	- 2.583E+00	0	133	0.00	97.79	0.01	0.01
2.583E+00	- 2.749E+00	1	134	0.74	98.53	0.00	0.00
2.749E+00	- 2.916E+00	0	134	0.00	98.53	0.00	0.00
2.916E+00	- 3.083E+00	2	136	1.47	100.00	0.00	2259.52
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 16 (S-CU)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXXX
1.466E+01 XXXX
2.151E+01 XXXX
3.157E+01 XXXX
4.634E+01 XX
6.802E+01 X
9.985E+01 X
1.466E+02
2.151E+02 X
3.157E+02
4.635E+02 X
6.803E+02
9.985E+02 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNJUSTIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 2.73405E+01
GEOMETRIC DEVIATION = 3.43224E+00
VARIANCE OF LOGS = 2.86843E-01

```


PERCENT TABLE FOR VARIABLE 16 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

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SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.462658E+00	2.931802E+01
95.00	1.766032E+00	5.834474E+01
98.00	2.509336E+00	3.230996E+02

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FREQUENCY TABLE FOR VARIABLE 17 (S-LA)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.28	0.28
1.583E+00	- 1.750E+00	1	1	0.74	0.74	1.92	0.44
1.750E+00	- 1.916E+00	11	12	8.09	8.82	8.61	0.66
1.916E+00	- 2.083E+00	20	32	14.71	23.53	23.12	0.42
2.083E+00	- 2.250E+00	36	68	26.47	50.00	37.13	0.03
2.250E+00	- 2.416E+00	41	109	30.15	80.15	35.70	0.79
2.416E+00	- 2.583E+00	17	126	12.50	92.65	20.54	0.61
2.583E+00	- 2.750E+00	7	133	5.15	97.79	7.07	0.00
2.750E+00	- 2.916E+00	3	136	2.21	100.00	1.65	1.11
	G	0	136	0.00	100.00	0.28	0.28
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 17 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+01 X
6.808E+01 XXXXXXXX
9.992E+01 XXXXXXXXXXXXXXXX
1.467E+02 XXXXXXXXXXXXXXXXXXXXXXXX
2.153E+02 XXXXXXXXXXXXXXXXXXXXXXXX
3.160E+02 XXXXXXXXXXXXXXXX
4.638E+02 XXXXX
6.808E+02 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 1.72536E+C2
GEOMETRIC DEVIATION = 1.68852E+00
VARIANCE OF LOGS = 5.17592E-02

```

PERCENT TABLE FOR VARIABLE 17 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.547708E+00	3.529456E+02
95.00	2.659193E+00	4.562393E+02
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 19 (S-NB)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	H	99	99	72.79	72.79		
	L	31	130	22.79	95.59		
	T	0	130	0.00	95.59	0.92	0.92
1.583E+00	- 1.750E+00	3	133	2.21	97.79	109.46	103.54
1.750E+00	- 1.916E+00	1	134	0.74	98.53	25.62	23.66
1.916E+00	- 2.083E+00	1	135	0.74	99.26	0.00	0.00
2.083E+00	- 2.250E+00	1	136	0.74	100.00	0.00	651.57
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 19 (S-NB) MIDPOINTS ARE EXPRESSED AS ANTILOGS

4.638E+01 XX
6.808E+01 X
9.992E+01 X
1.467E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 7.12880E+01
GEOMETRIC DEVIATION = 1.57984E+00
VARIANCE OF LOGS = 3.94470E-02

PERCENT TABLE FOR VARIABLE 19 (S-NB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.796334E+00	6.256533E+01

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FREQUENCY TABLE FOR VARIABLE 20 (S-NI)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THFOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
N		30	30	22.06	22.06		
L		66	96	48.53	70.59		
T		0	96	0.00	70.59	27.41	27.41
9.160E-01	1.083E+00	24	120	17.65	88.24	55.98	18.27
1.083E+00	1.249E+00	9	129	6.62	94.85	41.86	25.79
1.249E+00	1.416E+00	3	132	2.21	97.06	9.99	4.89
1.416E+00	1.583E+00	2	134	1.47	98.53	0.75	2.10
1.583E+00	1.749E+00	1	135	0.74	99.26	0.00	0.00
1.749E+00	1.916E+00	0	135	0.00	99.26	0.00	0.00
1.916E+00	2.083E+00	0	135	0.00	99.26	0.00	0.00
2.083E+00	2.249E+00	0	135	0.00	99.26	0.00	0.00
2.249E+00	2.416E+00	1	136	0.74	100.00	0.02	56.03
G		0	136	0.00	100.00	0.00	0.00
H		0	136				
B		0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 20 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXX
2.151E+01 XX
3.157E+01 X
4.634E+01 X
6.802E+01
9.985E+01
1.466E+02
2.151E+02 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 1.36790E+01
GEOMETRIC DEVIATION = 1.78028E+00
VARIANCE OF LOGS = 6.27444E-02

```

PERCENT TABLE FOR VARIABLE 20 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.127112E+00	1.340021E+01



95.00
98.00

1.260445E+00
1.522668E+00

1.821567E+01
3.331716E+01

Handwritten notes:
1.26
1.52
1.82
3.33

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FREQUENCY TABLE FOR VARIABLE 21 (S-PB)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	46	46	33.82	33.82		
T	0	46	0.00	33.82	32.64	32.64
1.250E+00 - 1.417E+00	24	70	17.65	51.47	10.48	17.46
1.417E+00 - 1.583E+00	10	80	7.35	58.82	11.68	0.24
1.583E+00 - 1.750E+00	9	89	6.62	65.44	12.36	0.91
1.750E+00 - 1.917E+00	9	98	6.62	72.06	12.41	0.93
1.917E+00 - 2.083E+00	9	107	6.62	78.68	11.81	0.67
2.083E+00 - 2.250E+00	6	113	4.41	83.09	10.66	2.04
2.250E+00 - 2.417E+00	6	119	4.41	87.50	9.13	1.08
2.417E+00 - 2.583E+00	2	121	1.47	88.97	7.42	3.96
2.583E+00 - 2.750E+00	1	122	0.74	89.71	5.72	3.89
2.750E+00 - 2.917E+00	3	125	2.21	91.91	4.18	0.33
2.917E+00 - 3.083E+00	2	127	1.47	93.38	2.90	0.28
3.083E+00 - 3.250E+00	3	130	2.21	95.59	1.91	0.63
3.250E+00 - 3.417E+00	1	131	0.74	96.32	1.19	0.03
3.417E+00 - 3.583E+00	0	131	0.00	96.32	0.70	0.70
3.583E+00 - 3.750E+00	0	131	0.00	96.32	0.40	0.40
3.750E+00 - 3.917E+00	1	132	0.74	97.06	0.21	2.96
3.917E+00 - 4.083E+00	0	132	0.00	97.06	0.11	0.11
4.083E+00 - 4.250E+00	1	133	0.74	97.79	0.05	17.67
4.250E+00 - 4.417E+00	0	133	0.00	97.79	0.02	0.02
4.417E+00 - 4.583E+00	1	134	0.74	98.53	0.02	58.45
G	2	136	1.47	100.00	0.00	0.00
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 21 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+01 xxxxxxxxxxxxxxxxxxxx
3.162E+01 xxxxxxxx
4.642E+01 xxxxxxxx
6.813E+01 xxxxxxxx
1.000E+02 xxxxxxxx
1.468E+02 xxxxx
2.154E+02 xxxxx
3.162E+02 x
4.642E+02 x
6.813E+02 xx
1.000E+03 x
1.468E+03 xx
2.154E+03 x
3.162E+03
4.642E+03
6.813E+03 x
1.000E+04
1.468E+04 x

```

2.154E+04
3.162E+04 x

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 3.00000E+04
GEOMETRIC MEAN = 8.60800E+01
GEOMETRIC DEVIATION = 4.86324E+03
VARIANCE OF LOGS = 4.71867E-01

PERCENT TABLE FOR VARIABLE 21 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.772225E+00	5.218686E+02
95.00	3.205559E+00	1.505312E+03
98.00	4.343340E+00	2.204649E+04

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FREQUENCY TABLE FOR VARIABLE 22 (S-SB)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	128	128	94.12	94.12		
L	0	128	0.00	94.12		
T	0	128	0.00	94.12	43.31	43.31
2.250E+00 - 2.417E+00	2	130	1.47	95.59	47.87	43.95
2.417E+00 - 2.583E+00	0	130	0.00	95.59	32.88	32.88
2.583E+00 - 2.750E+00	1	131	0.74	96.32	10.36	8.46
2.750E+00 - 2.917E+00	2	133	1.47	97.79	1.49	0.17
2.917E+00 - 3.083E+00	0	133	0.00	97.79	0.10	0.10
3.083E+00 - 3.250E+00	2	135	1.47	99.26	0.00	0.00
3.250E+00 - 3.417E+00	0	135	0.00	99.26	0.00	0.00
3.417E+00 - 3.583E+00	0	135	0.00	99.26	0.00	0.00
3.583E+00 - 3.750E+00	0	135	0.00	99.26	0.00	0.00
3.750E+00 - 3.917E+00	1	136	0.74	100.00	0.00	343.43
G	0	136	0.00	100.00	0.00	0.00
H	0	136				
B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 22 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

- 2.154E+02 X
- 3.162E+02
- 4.642E+02 X
- 6.813E+02 X
- 1.000E+03
- 1.463E+03 X
- 2.154E+03
- 3.162E+03
- 4.642E+03
- 6.813E+03 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

- MINIMUM ANTILOG = 2.00000E+02
- MAXIMUM ANTILOG = 7.00000E+03
- GEOMETRIC MEAN = 7.91705E+02
- GEOMETRIC DEVIATION = 3.22438E+00
- VARIANCE OF LOGS = 2.58517E-01

PERCENT TABLE FOR VARIABLE 22 (S-SB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.755610E+00	1.556302E+02

90.00
95.00
98.00

1.000000E+35
1.000000E+35
2.963335E+00

1.000000E+35
1.000000E+35
9.190406E+02

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FREQUENCY TABLE FOR VARIABLE 23 (S-SC)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCFNT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWFR	UPPER						
N		3	3	2.21	2.21		
L		8	11	5.88	8.09		
T		0	11	0.00	8.09	1.88	1.88
9.160E-01	1.083E+00	6	17	4.41	12.50	3.49	1.80
1.083E+00	1.249E+00	4	21	2.94	15.44	7.54	1.66
1.249E+00	1.416E+00	6	27	4.41	19.85	13.40	4.38
1.416E+00	1.583E+00	8	35	5.88	25.74	19.57	6.84
1.583E+00	1.749E+00	22	57	16.18	41.91	23.52	0.10
1.749E+00	1.916E+00	24	81	17.65	59.56	23.26	0.02
1.916E+00	2.083E+00	36	117	26.47	86.03	18.91	15.43
2.083E+00	2.249E+00	17	134	12.50	98.53	12.65	1.49
2.249E+00	2.416E+00	2	136	1.47	100.00	11.76	8.10
G		0	136	0.00	100.00	0.00	0.00
H		0	136				
B		0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 23 (S-SC)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXX
1.466E+01 XXX
2.151E+01 XXXX
3.157E+01 XXXXXX
4.634E+01 XXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXXXXXXXX
2.151E+02 X

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 6.37768E+01
GEOMETRIC DEVIATION = 2.06770E+00
VARIANCE OF LOGS = 9.95330E-02

```

PERCENT TABLE FOR VARIABLE 27 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.135610E+00	1.366502E+02



95.00
98.00

2.202277E+00
2.242277E+00

1.593225E+02
1.745937E+02

Handwritten marks:
A small scribble above the word "SC".
The letters "SC" written in a cursive hand.

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FREQUENCY TABLE FOR VARIABLE 24 (S-SN)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	119	119	87.50	87.50		
	L	5	124	3.68	91.18		
	T	0	124	0.00	91.18	37.37	37.37
1.250E+00	- 1.417E+00	5	129	3.68	94.85	66.70	57.07
1.417E+00	- 1.583E+00	3	132	2.21	97.06	29.15	23.46
1.583E+00	- 1.750E+00	1	133	0.74	97.79	2.73	1.10
1.750E+00	- 1.917E+00	0	133	0.00	97.79	0.00	0.00
1.917E+00	- 2.083E+00	2	135	1.47	99.26	0.00	0.00
2.083E+00	- 2.250E+00	0	135	0.00	99.26	0.00	0.00
2.250E+00	- 2.417E+00	1	136	0.74	100.00	0.00	0.00
	G	0	136	0.00	100.00	0.00	17.34
	H	0	136	0.00	100.00	0.00	0.00
	B	0	136	0.00	100.00	0.00	0.00
TOTALS LESS H AND B		136					

HISTOGRAM FOR VARIABLE 24 (S-SN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+01 XXXX
3.162E+01 XX
4.642E+01 X
6.813E+01
1.000E+02 X
1.468E+02
2.154E+02 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 3.78480E+01
GEOMETRIC DEVIATION = 2.21201E+00
VARIANCE OF LOGS = 1.18879E-01

PERCENT TABLE FOR VARIABLE 24 (S-SN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.42777E+00	2.577800E+01
98.00	1.796658E+00	6.251346E+01

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FREQUENCY TABLE FOR VARIABLE 25 (S-SR)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOP FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	60	60	44.12	44.12		
	L	9	69	6.62	50.74		
	T	0	69	0.00	50.74	24.33	24.33
2.250E+00	- 2.417E+00	8	77	5.88	56.62	24.39	11.01
2.417E+00	- 2.583E+00	10	87	7.35	63.97	29.69	13.06
2.583E+00	- 2.750E+00	19	106	13.97	77.94	26.74	2.24
2.750E+00	- 2.917E+00	10	116	7.35	85.29	17.81	3.43
2.917E+00	- 3.083E+00	12	128	8.82	94.12	8.78	1.18
3.083E+00	- 3.250E+00	5	133	3.68	97.79	3.20	1.02
3.250E+00	- 3.417E+00	3	136	2.21	100.00	1.06	3.55
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 25 (S-SR) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+02 XXXXXX
3.162E+02 XXXXXXX
4.642E+02 XXXXXXXXXXXXXXX
6.813E+02 XXXXXXX
1.000E+03 XXXXXXXXXXX
1.468E+03 XXXX
2.154E+03 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+02
MAXIMUM ANTILOG = 2.00000E+03
GEOMETRIC MEAN = 5.70996E+02
GEOMETRIC DEVIATION = 1.89219E+00
VARIANCE OF LOGS = 7.67095E-02

```

PERCENT TABLE FOR VARIABLE 25 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.005557E+00	1.312878E+03
95.00	3.123335E+00	1.328419E+03
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 26 (S-V)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	M	0	0	0.00	0.00		
	L	10	10	7.35	7.35		
	T	0	10	0.00	7.35	5.96	5.96
1.250E+00	- 1.417E+00	16	26	11.76	19.12	17.04	0.06
1.417E+00	- 1.583E+00	29	55	21.32	40.44	33.83	0.69
1.583E+00	- 1.750E+00	43	98	31.62	72.06	39.24	0.36
1.750E+00	- 1.917E+00	30	128	22.06	94.12	26.61	0.43
1.917E+00	- 2.083E+00	5	133	3.68	97.79	10.54	2.91
2.083E+00	- 2.250E+00	3	136	2.21	100.00	2.79	0.02
	G	0	136	0.00	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND E 136

HISTOGRAM FOR VARIABLE 26 (S-V) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+01 XXXXXXXXXXXXX
3.162E+01 XXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
6.813E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.000E+02 XXXX
1.468E+02 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 4.52351E+01
GEOMETRIC DEVIATION = 1.62086E+00
VARIANCE OF LOGS = 4.39937E-02

```

PERCENT TABLE FOR VARIABLE 26 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.885557E+00	7.68346E+01
95.00	1.956668E+00	9.350406E+01
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 29 (S-ZN)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	126	126	92.65	92.65		
	L	4	130	2.94	95.59		
	T	0	130	0.00	95.59	31.30	31.30
2.583E+00	- 2.750E+00	2	132	1.47	97.06	42.19	38.29
2.750E+00	- 2.916E+00	0	132	0.00	97.06	38.94	38.94
2.916E+00	- 3.083E+00	1	133	0.74	97.79	18.48	16.53
3.083E+00	- 3.250E+00	0	133	0.00	97.79	4.50	4.50
3.250E+00	- 3.416E+00	0	133	0.00	97.79	0.56	0.56
3.416E+00	- 3.583E+00	1	134	0.74	98.53	0.00	0.00
3.583E+00	- 3.750E+00	0	134	0.00	98.53	0.00	0.00
3.750E+00	- 3.916E+00	0	134	0.00	98.53	0.00	0.00
3.916E+00	- 4.083E+00	0	134	0.00	98.53	0.00	0.00
4.083E+00	- 4.250E+00	1	135	0.74	99.26	0.04	25.32
	G	1	135	0.74	100.00	0.00	0.00
	H	0	136				
	B	0	136				

TOTALS LESS H AND B 136

HISTOGRAM FOR VARIABLE 29 (S-ZN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

- 4.638E+02 X
- 6.809E+02
- 9.992E+02 X
- 1.467E+03
- 2.153E+03
- 3.163E+03 X
- 4.638E+03
- 6.808E+03
- 9.992E+03
- 1.467E+04 X

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

- MINIMUM ANTILOG = 5.00000E+02
- MAXIMUM ANTILOG = 1.50000E+04
- GEOMETRIC MEAN = 1.62267E+03
- GEOMETRIC DEVIATION = 4.23365E+00
- VARIANCE OF LOGS = 3.92772E-01

PERCENT TABLE FOR VARIABLE 29 (S-ZN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
---------------------	------------	-------------------

90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	3.223031E+00	1.571095E+03

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 32 (INST-HG)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	13	13	9.56	9.56		
	L	23	36	16.91	26.47		
	T	0	36	0.00	26.47		
-7.500E-01	-5.833E-01	11	47	8.09	34.56	17.12	17.12
-5.833E-01	-4.167E-01	9	56	6.62	41.18	9.10	0.36
-4.167E-01	-2.500E-01	10	56	7.35	48.53	11.70	0.62
-2.500E-01	-8.333E-02	9	75	6.62	55.15	13.77	1.03
-8.333E-02	8.333E-02	4	79	2.94	58.09	14.99	2.39
8.333E-02	2.500E-01	4	83	2.94	61.03	15.08	8.14
2.500E-01	4.167E-01	8	91	5.88	56.91	14.03	7.17
4.167E-01	5.833E-01	6	97	4.41	71.32	12.07	1.38
5.833E-01	7.500E-01	3	100	2.21	73.53	9.61	1.35
	G	36	136	26.47	100.00	18.42	12.91
	H	0	136			0.00	0.00
	B	0	136				
TOTALS LESS H AND B		136					

HISTOGRAM FOR VARIABLE 32 (INST-HG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E-01 xxxxxxxx
3.162E-01 xxxxxxxx
4.642E-01 xxxxxxxx
6.813E-01 xxxxxxxx
1.000E+00 xxx
1.468E+00 xxx
2.154E+00 xxxxxx
3.162E+00 xxxx
4.642E+00 xx
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E-01
MAXIMUM ANTILOG = 4.80000E+00
GEOMETRIC MEAN = 7.10165E-01
GEOMETRIC DEVIATION = 2.68781E+00
VARIANCE OF LOGS = 1.84383E-01
    
```

PERCENT TABLE FOR VARIABLE 32 (INST-HG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35

95.00
98.00

1.000000E+35
1.000000E+35

1.000000E+35
1.000000E+35

40

APPENDIX H

00010 FISHER-K STATISTICS - U S G S STATPAC (05/12/80)

DATE 7/10/85

TITLE INPUT ID N M ***** OPTIONS *****
 Groom -ds-3 - 61 38 0 0 0 0 0 0 0 0 0 0

NUMBER OF SELECTED COLUMNS = 38

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38		

SELECTED COLUMN IDENTIFIERS

X-COORD.	Y-COORD.	S-FE%	S-VG%	S-CA%	S-TIX	S-MN	S-AG	S-AS	S-AU
S-B	S-BA	S-PE	S-BI	S-CD	S-CO	S-CP	S-CU	S-LA	S-MO
S-HB	S-NI	S-PB	S-SB	S-SC	S-SN	S-SR	S-V	S-W	S-Y
S-ZN	S-ZR	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-ZH-P	AA-SR-P		

NUMBER OF SELECTED ROW PAIRS = 1

SELECTED ROW PAIRS

1- 61

0010 FISHER-K STATISTICS - U S G S STATPAC (06/12/80)

DATE 7/10/85

E P O K S

Grpdm

NO	COLUMN	N	H	L	G	R	T	NO OF UNQUAL VALUES	NO OF IMPROPER QUAL VALUES	MINIMUM	MAXIMUM	NO
1	X-COORD.	0	0	0	0	0	0	61	0	60570.000	61290.000	1
2	Y-COORD.	0	0	0	0	0	0	61	0	413000.00	415757.00	2
3	S-FE%	0	0	0	1	0	0	60	0	0.2000000	15.000000	3
4	S-MG%	1	0	12	0	0	0	48	0	0.0200000	5.0000000	4
5	S-CA%	11	0	16	2	0	0	32	0	0.0500000	10.000000	5
6	S-TIX	0	0	0	0	0	0	61	0	0.0050000	0.5000000	6
7	S-YN	0	0	1	0	0	0	60	0	10.000000	5000.0000	7
8	S-AG	22	0	2	0	0	0	37	0	0.5000000	700.00000	8
9	S-AS	27	0	9	0	0	0	25	0	200.00000	2000.0000	9
10	S-AU	59	0	2	0	0	0	0	0			10
11	S-R	5	0	6	0	0	0	50	0	10.000000	150.00000	11
12	S-BA	0	0	1	1	0	0	50	0	20.000000	5000.0000	12
13	S-BE	16	0	22	0	0	0	23	0	1.0000000	5.0000000	13
14	S-BI	52	0	1	0	0	0	8	0	10.000000	50.000000	14
15	S-CD	54	0	3	1	0	0	3	0	20.000000	500.00000	15
16	S-CE	25	0	12	0	0	0	24	0	5.0000000	150.00000	16
17	S-CR	16	0	18	0	0	0	27	0	10.000000	30.000000	17
18	S-CU	3	0	3	2	0	0	53	0	5.0000000	15000.000	18
19	S-LA	4	0	13	0	0	0	44	0	20.000000	50.000000	19
20	S-MO	32	0	5	0	0	0	24	0	5.0000000	200.00000	20
21	S-NB	61	0	0	0	0	0	0	0			21
22	S-NI	0	0	13	0	0	0	39	0	5.0000000	200.00000	22
23	S-PB	1	0	6	8	0	0	46	0	10.000000	20000.000	23
24	S-SB	26	0	6	0	0	0	29	0	100.00000	5000.0000	24
25	S-SC	27	0	16	0	0	0	18	0	5.0000000	10.000000	25
26	S-EN	58	0	1	0	0	0	2	0	20.000000	30.000000	26
27	S-SR	29	0	6	0	0	0	26	0	100.00000	2000.0000	27
28	S-V	4	0	18	0	0	0	39	0	10.000000	100.00000	28
29	S-W	60	0	1	0	0	0	0	0			29
30	S-Y	12	0	21	0	0	0	28	0	10.000000	50.000000	30
31	S-ZN	40	0	7	2	0	0	12	0	200.00000	5000.0000	31
32	S-ZP	1	0	2	0	0	0	58	0	10.000000	1000.0000	32
33	S-TH	61	0	0	0	0	0	0	0			33
34	AA-AU-D	26	0	6	0	0	0	29	0	0.0500000	4.7000000	34
35	INST-HG	0	0	1	21	0	0	39	0	0.0600000	6.2000000	35
36	AA-AS-D	5	0	1	4	0	0	51	0	10.000000	800.00000	36
37	AA-ZN-D	6	0	1	6	0	0	48	0	5.0000000	900.00000	37
38	AA-SB-D	8	0	1	8	0	0	44	0	2.0000000	1000.0000	38

0010 FISHER-K STATISTICS - U S G S STATPAC (06/12/80)

DATE 7/13/85

NO	COLUMN	Groom							NO
		K1 MEAN	SQRT(K2) STD DEVIATION	K2 VARIANCE	K3	G1 SKEWNESS	K4	G2 KURTOSIS	
1	X-COORD.	60899.607	354.78215	125870.38	76147540.	1.7051814	3.3475355D+10	2.1128961	1
2	Y-COORD.	414174.56	804.99510	648017.12	3.8837276D+08	0.7445075	-2.3540993D+11	-0.5605984	2
3	S-FEX	3.0450000	3.6393529	13.244890	102.74381	2.1314892	751.79102	4.2854895	3
4	S-MGX	0.3314583	0.8304677	0.6896766	2.4378556	4.2563740	10.265116	21.581069	4
5	S-CAZ	1.2021875	2.2267563	4.9584434	31.776830	2.9417837	207.03150	8.4206418	5
6	S-TIX	0.0857377	0.1306007	0.0170565	0.0060375	2.7103042	0.0018109	6.2246793	6
7	S-MH	639.33333	1291.1289	1667014.0	6.0086479D+09	2.7916946	1.9152994D+13	6.8922051	7
8	S-AG	86.748649	146.96200	21397.829	8943110.8	2.8175618	4.1904837D+09	8.9834654	8
9	S-AS	516.00000	436.53942	190566.67	1.8371717D+08	2.2083481	1.9378582D+11	5.3361512	9
10	S-AU								10
11	S-B	35.200000	28.960917	833.73469	44889.260	1.8480152	2893729.0	4.1134728	11
12	S-BA	517.28814	830.23227	539285.62	1.9876350D+09	3.4732641	7.1489026D+12	15.046689	12
13	S-BE	1.4565217	0.9282565	0.8616601	2.3510023	2.9393350	7.2454763	9.7587007	13
14	S-BI	20.625000	13.479482	181.69643	4426.7393	1.8027296	105935.27	3.2088380	14
15	S-CD	183.33333	274.28695	75233.333	35688333.	1.7294611			15
16	S-CO	22.333333	38.544911	1485.7101	140213.59	2.4484372	11637134.	5.2720298	16
17	S-CR	15.740741	6.6076447	43.660969	289.37322	1.0030401	310.54131	0.1629043	17
18	S-CU	721.16981	2153.5996	4537991.2	5.8792954D+10	5.9861375	8.3086964D+14	38.625405	18
19	S-LA	29.772727	10.672424	113.90063	1226.4422	1.0089226	-1834.1486	-0.1413781	19
20	S-MO	28.291667	47.531664	2259.2591	320121.15	2.9810229	44126849.	8.6451165	20
21	S-NB								21
22	S-NI	20.538462	38.325370	1468.8340	220009.63	3.9082524	33687014.	15.614104	22
23	S-PB	2131.8478	4554.4953	20743427.	2.5061624D+11	2.6527019	2.8224275D+15	6.5593647	23
24	S-SB	1108.6207	1338.9808	1792869.5	4.5016102D+09	1.8751883	1.0677955D+13	3.3219321	24
25	S-SC	6.0555556	1.9242179	3.7026144	11.283497	1.5837294	12.834967	0.9362198	25
26	S-SN	25.000000	7.0710678	50.000000					26
27	S-SR	359.61538	422.85204	178803.85	2.0848346D+08	2.7574416	2.7966578D+11	8.7475337	27
28	S-V	30.769231	27.157883	737.55061	24646.966	1.2304833	195560.30	0.3594985	28
29	S-W								29
30	S-Y	15.535714	8.2033514	67.294974	1693.1853	3.0671184	52616.013	11.618570	30
31	S-ZN	1000.0000	1381.0405	1907272.7	6.8105455D+09	2.5856081	2.6153061D+13	7.1894708	31
32	S-ZP	100.68966	133.40825	17797.762	13311446.	5.6063108	1.1796865D+10	37.242245	32
33	S-TH								33
34	AA-AU-P	0.8172414	1.1461329	1.3136207	2.8496189	1.8927001	6.2019118	3.5940625	34
35	INST-HG	1.3069231	1.5442425	2.3846850	6.0977340	1.6558536	11.570157	2.0345914	35
36	AA-AS-P	227.54902	219.62325	43234.373	11758942.	1.1100264	4.7764375D+08	0.2053010	36
37	AA-ZN-P	113.75000	183.95912	33840.957	20447446.	3.2845442	1.3341848D+10	11.650128	37
38	AA-SO-P	145.40909	214.44383	45986.154	23653599.	2.3985972	1.3470716D+10	6.3699970	38

OTE: THE ABOVE STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY.

01 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

TITLE	INPUT ID	N	M	***** OPTIONS *****	OUTPUT ID	N	M
om	-ds-3	61	36	1 0 1 1 0 0 0 0 0 0	-	36	36

NUMBER OF SELECTED COLUMNS 36

SELECTED COLUMN INDICES

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36				

SELECTED COLUMN IDENTIFIERS

S-FE%	S-PG%	S-CA%	S-TIX	S-MN	S-AG	S-AS	S-AU	S-B	S-BA
S-9E	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI
S-PB	S-SB	S-SC	S-SN	S-SP	S-V	S-W	S-Y	S-ZN	S-ZR
S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-SB-P				

NUMBER OF SELECTED ROW PAIRS 1

SELECTED ROW PAIRS

1- 61

BASE TWO RESULTS

WARNING *** THE RESULTS FROM THIS PHASE "SHOULD NOT" BE ENTERED INTO D0096-FACTOR ANALYSIS.
 THE CORRELATION MATRIX FROM THIS PHASE DOES NOT HAVE THE GRAMIAN PROPERTIES
 WHICH ARE REQUIRED FOR FACTOR ANALYSIS.

1 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

Y OF MEANS -

	1 S-FEZ	2 S-MGZ	3 S-CAZ	4 S-TIZ	5 S-MN	6 S-AG	7 S-AS	8 S-AU	9 S-R	10 S-BA
S-FEZ	0.2263	0.3315	0.4745	0.2263	0.2352	0.2291	0.3635	*****	0.2877	0.2311
S-MGZ	-1.1607	-1.1582	-1.0519	-1.1682	-1.1607	-1.0092	-0.8900	*****	-1.2306	-1.1977
S-CAZ	-0.4807	-0.4345	-0.5063	-0.5063	-0.5063	-0.1377	-0.0537	*****	-0.4981	-0.5224
S-TIZ	-1.3411	-1.2773	-1.2943	-1.2943	-1.3411	-1.3819	-1.4376	*****	-1.2558	-1.3380
S-MN	2.1347	2.3363	2.3548	2.1299	2.1299	2.2346	2.2479	*****	2.1921	2.1171
S-AG	1.2022	1.1841	1.6411	1.2022	1.2022	1.2022	1.5704	*****	1.2205	1.2275
S-AS	2.6058	2.6181	2.6802	2.6058	2.6058	2.6010	2.6058	*****	2.6025	2.5894
S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-B	1.4332	1.4769	1.4614	1.4306	1.4296	1.4762	1.4888	*****	1.4306	1.4190
S-HA	2.3728	2.3194	2.4020	2.3716	2.3749	2.3160	2.2865	*****	2.4168	2.3716
S-BE	0.1048	0.1065	0.1253	0.1134	0.1134	0.0867	0.1112	*****	0.1134	0.1185
S-BI	1.2507	1.1590	1.1761	1.2507	1.2507	1.2507	1.2435	*****	1.3306	1.2507
S-CD	1.8257	2.0890	2.0880	1.8257	1.8257	1.8257	1.3891	*****	1.8257	1.8257
S-CO	1.0099	1.0174	1.1185	0.9969	0.9969	1.0552	1.2553	*****	0.9706	1.0099
S-CR	1.1516	1.1714	1.1861	1.1637	1.1637	1.1153	1.1188	*****	1.1637	1.1632
S-CU	1.9136	1.8817	1.8910	1.9252	1.9252	2.3167	2.5307	*****	1.8778	1.8810
S-LA	1.4488	1.4710	1.4635	1.4494	1.4436	1.4002	1.3893	*****	1.4636	1.4488
S-MO	1.1528	1.0543	1.0593	1.1528	1.1528	1.1735	1.2193	*****	1.1270	1.1528
S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-NI	1.0371	1.0936	1.1390	1.0438	1.0438	1.1359	1.2140	*****	1.0468	1.0504
S-PB	2.2844	2.1846	1.8582	2.2844	2.3062	2.8642	2.9444	*****	2.1795	2.2752
S-SB	2.7424	2.7323	2.7803	2.7424	2.7689	2.8280	2.8500	*****	2.7092	2.7689
S-SC	0.7654	0.7693	0.7737	0.7654	0.7654	0.7172	0.7233	*****	0.7654	0.7607
S-SH	1.3891	1.4771	1.4771	1.3891	1.3891	1.3891	1.3891	*****	1.3010	1.3891
S-SR	2.3802	2.3955	2.4140	2.3802	2.3802	2.4216	2.4481	*****	2.3959	2.3503
S-V	1.3299	1.3804	1.5345	1.3393	1.3404	1.1900	1.3921	*****	1.3904	1.3495
S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-Y	1.1534	1.1652	1.1650	1.1542	1.1599	1.1741	1.1607	*****	1.1586	1.1545
S-ZN	2.7455	2.7859	2.8740	2.7455	2.7455	2.7364	2.8776	*****	2.6401	2.7497
S-ZR	1.8340	1.8458	1.7816	1.8421	1.8420	1.8694	1.8041	*****	1.9082	1.8430
S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
A-AU-D	-0.5316	-0.6522	-0.7452	-0.5316	-0.5399	-0.5621	-0.4387	*****	-0.4942	-0.5316
A-AS-HG	-0.1950	-0.2317	-0.1485	-0.1950	-0.1902	-0.0476	0.3364	*****	-0.0874	-0.1923
A-AS-D	2.1162	2.0363	2.0962	2.1154	2.1208	2.3087	2.5688	*****	2.1086	2.1317
A-ZN-P	1.6808	1.6219	1.7187	1.6875	1.6875	1.8603	1.8572	*****	1.7176	1.6915
A-SB-D	1.7261	1.6302	1.5770	1.6937	1.6987	1.9630	2.2055	*****	1.6686	1.6979

101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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RAY OF MEANS - CONT.

	11	12	13	14	15	16	17	18	19	20
	S-BE	S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-VB	S-NI
1 S-FEZ	0.4225	0.0358	0.2007	0.3430	0.3786	0.2408	0.1744	0.3870	*****	0.33
2 S-MGZ	-1.3596	-1.5663	-0.6595	-1.0174	-1.7497	-1.1330	-1.2973	-1.2387	*****	-1.05
3 S-CAZ	-0.6435	-1.3010	-0.5000	-0.3893	-0.6662	-0.4797	-0.5737	-0.4537	*****	-0.48
4 S-TIX	-1.1737	-1.3541	-1.5663	-1.2795	-1.0940	-1.3074	-1.2678	-1.3727	*****	-1.34
5 S-MN	2.3985	1.6512	1.7101	2.6756	2.1186	2.1553	1.9672	2.4645	*****	2.31
6 S-AG	0.6661	1.6899	2.3404	1.1722	0.8868	1.1394	1.3597	1.4810	*****	1.08
7 S-AS	2.5038	2.5176	2.6611	2.6066	2.6687	2.5850	2.5602	2.6120	*****	2.62
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	1.4789	1.2352	1.5147	1.4916	1.4847	1.4155	1.4322	1.4476	*****	1.44
0 S-BA	2.4672	2.4665	2.5511	2.2561	2.4510	2.4133	2.4480	2.3223	*****	2.28
1 S-BE	0.1134	0.3010	0.0000	0.1590	0.0682	0.0909	0.0936	0.1607	*****	0.13
2 S-BI	1.6990	1.2537	1.4771	1.2386	1.2396	1.2507	1.2547	1.2841	*****	1.36
3 S-CD	2.6990	1.3010	1.8257	*****	2.0830	1.8257	1.8257	1.3891	*****	2.00
4 S-CO	0.7811	0.7720	*****	0.9969	0.7976	0.8977	0.8683	1.1256	*****	1.01
5 S-CR	1.1919	1.1505	1.0890	1.1791	1.1637	1.1637	1.1883	1.0754	*****	1.17
6 S-CU	1.7434	2.7192	2.7964	2.0778	1.8997	1.9020	2.0005	2.1650	*****	1.95
7 S-LA	1.4682	1.4630	1.4184	1.4701	1.4798	1.4537	1.4494	1.4029	*****	1.43
8 S-MO	0.9440	1.4290	1.3495	1.0098	1.1116	1.0959	1.2328	1.1528	*****	1.12
9 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
0 S-NI	1.0105	0.7884	1.0731	1.2007	1.0036	0.9253	0.9666	1.2232	*****	1.04
1 S-PB	1.9615	3.6351	4.3010	2.4345	2.3044	2.3536	2.3027	2.7376	*****	2.28
2 S-SB	2.4251	2.9744	3.0851	2.8547	2.4741	2.7010	2.7427	2.8326	*****	2.71
3 S-SC	0.7864	0.6990	0.6990	0.7583	0.8076	0.7787	0.7844	0.6990	*****	0.74
4 S-SN	*****	1.3871	*****	1.4771	1.3010	1.3891	1.3010	1.3891	*****	1.33
5 S-SR	2.3669	2.3871	2.1761	2.4752	2.5255	2.3972	2.4164	2.3378	*****	2.42
6 S-V	1.4463	1.1003	1.4225	1.4767	1.4571	1.3575	1.3654	1.3949	*****	1.30
7 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
8 S-Y	1.1689	1.1174	*****	1.2240	1.1543	1.1466	1.1518	1.1508	*****	1.13
9 S-ZN	2.5690	3.6990	*****	2.8167	2.5475	2.7455	2.5908	2.7185	*****	2.76
0 S-ZR	1.8860	2.0418	1.6737	1.8760	2.0031	1.8620	1.9004	1.8470	*****	1.82
1 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2 AA-AU->	-0.3232	-0.1208	-0.3951	-0.8554	-0.6449	-0.5035	-0.4100	-0.3257	*****	-0.54
3 INST-HG	0.0139	0.1260	*****	-0.0364	-0.0011	-0.1342	-0.2239	0.2183	*****	-0.11
4 AA-AS->	2.0681	2.5018	2.3991	2.1726	2.1368	2.1514	2.0854	2.4050	*****	2.14
5 AA-ZN->	1.8536	1.5679	1.8702	1.9297	1.7821	1.6762	1.6380	1.9851	*****	1.92
6 AA-SB->	1.5697	2.5453	2.5303	1.5898	1.7299	1.7829	1.7943	2.0688	*****	1.50

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RAY OF MEANS - CONT.

	21 S-PB	22 S-SB	23 S-SC	24 S-SN	25 S-SR	26 S-V	27 S-W	28 S-Y	29 S-ZN	30 S-ZR
1 S-FEX	0.2027	0.2730	0.4787	0.3266	0.3837	0.2282	*****	0.3676	0.5549	0.20
2 S-HGZ	-1.3510	-0.9518	-1.1309	-1.6990	-0.8238	-1.3561	*****	-0.9800	-0.9790	-1.29
3 S-CAZ	-0.7104	-0.0343	-0.3885	-1.3010	-0.3384	-0.6577	*****	-0.3369	-0.3114	-0.57
4 S-TIZ	-1.2612	-1.4076	-0.9227	-0.9120	-1.1867	-1.2472	*****	-1.1810	-1.4299	-1.31
5 S-MN	2.1001	2.1783	2.4853	2.1505	2.0717	2.0728	*****	2.3326	2.6768	2.10
6 S-AG	0.9519	1.6513	1.3693	2.2386	1.3827	0.8655	*****	1.0996	1.0179	1.18
7 S-AS	2.5223	2.6046	2.7189	2.3891	2.7268	2.5980	*****	2.6092	2.6945	2.58
8 S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
9 S-B	1.4167	1.5039	1.5622	1.0000	1.5029	1.4704	*****	1.5047	1.4474	1.43
0 S-BA	2.4597	2.2672	2.7003	2.0880	2.6033	2.3908	*****	2.4263	1.9469	2.37
1 S-BE	0.0804	0.0350	0.0544	*****	0.0729	0.1155	*****	0.0954	0.1659	0.11
2 S-BI	1.2183	1.2435	1.1761	1.1761	1.0880	1.3333	*****	1.2917	1.1761	1.25
3 S-CD	1.4771	1.8257	2.6990	*****	2.6990	2.0880	*****	*****	*****	1.82
4 S-CO	0.8443	1.2553	1.1361	0.8451	1.1127	0.7849	*****	1.1250	0.9632	0.99
5 S-CR	1.1637	1.1005	1.2396	1.3010	1.2223	1.1877	*****	1.2163	1.0660	1.17
6 S-CU	1.8219	2.5629	1.7694	3.0880	1.8540	1.7277	*****	1.7065	2.4463	1.86
7 S-LA	1.4620	1.4142	1.5345	1.6990	1.4820	1.4588	*****	1.5091	1.3715	1.45
8 S-MC	1.0996	1.2218	1.3187	1.4375	1.4034	1.0472	*****	1.1770	0.9054	1.17
9 S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
0 S-NI	0.9420	1.1575	1.2228	0.6990	1.1132	0.9059	*****	1.1731	1.1823	1.02
1 S-PB	2.2944	3.0681	1.7077	3.6505	1.9380	2.1875	*****	1.9602	2.5579	2.78
2 S-SB	2.6287	2.7424	2.7300	3.0731	2.7303	2.4671	*****	2.7437	2.6873	2.49
3 S-SC	0.7844	0.7233	0.7654	0.6990	0.7844	0.7986	*****	0.7787	0.7477	0.76
4 S-SN	1.3891	1.3891	1.3010	1.3891	1.3010	*****	*****	1.3010	1.4771	1.38
5 S-SR	2.4324	2.4709	2.5108	2.4771	2.3802	2.4587	*****	2.4207	2.5340	2.38
6 S-V	1.3833	1.2952	1.6112	*****	1.4669	1.3393	*****	1.4691	1.2954	1.33
7 S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
8 S-Y	1.1458	1.1340	1.1973	1.1761	1.1741	1.1477	*****	1.1542	1.1382	1.15
9 S-ZN	2.6853	2.8499	2.6150	3.6990	3.0587	2.5246	*****	2.6946	2.7455	2.69
0 S-ZR	1.9057	1.8276	1.9259	2.4225	1.8788	1.8742	*****	1.9300	1.7878	1.84
1 S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
2 AA-AU->	-0.5293	-0.4197	-0.4489	-0.4120	-0.5583	-0.4945	*****	-0.4101	-1.1204	-0.53
3 INST-HG	-0.1047	0.2071	-0.0584	0.0792	-0.2069	-0.2162	*****	-0.0993	0.0456	-0.19
4 AA-AS->	2.1427	2.4103	2.1467	2.5880	2.0699	1.9893	*****	2.0996	2.3563	2.12
5 AA-ZN->	1.7246	1.8383	1.7125	1.9031	1.5330	1.5052	*****	1.6561	2.5225	1.57
6 AA-SB->	1.7309	2.3011	1.5802	2.9031	1.5138	1.7073	*****	1.5660	1.8296	1.70

0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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ARRAY OF MEANS - CONT.

	31	32	33	34	35	36
S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-SB-P	
1 S-FEX	*****	0.0189	0.2037	0.2155	0.2405	0.1836
2 S-MGX	*****	-1.1812	-1.3223	-1.1812	-1.3390	-1.3008
3 S-CAX	*****	-0.4907	-0.6788	-0.5117	-0.7410	-0.6377
4 S-TIX	*****	-1.4128	-1.2578	-1.3635	-1.2942	-1.3845
5 S-MH	*****	1.8862	2.1213	2.1502	2.1295	2.1764
6 S-AG	*****	1.3070	0.5733	1.1783	1.0511	0.9191
7 S-AS	*****	2.5352	2.4587	2.5154	2.6100	2.5400
8 S-AU	*****	*****	*****	*****	*****	*****
9 S-B	*****	1.4214	1.4192	1.3817	1.4203	1.4527
10 S-BA	*****	2.3541	2.3904	2.3881	2.4365	2.3453
11 S-BE	*****	0.0753	0.1216	0.1372	0.1242	0.1280
12 S-BI	*****	1.2507	1.2940	1.2507	1.2613	1.2254
13 S-CD	*****	1.8257	*****	1.8257	1.3891	2.0880
14 S-CO	*****	0.9247	0.8351	0.9526	0.9187	0.8271
15 S-CR	*****	1.0942	1.1731	1.1575	1.1642	1.1304
16 S-CU	*****	2.1328	1.6336	1.9012	1.7426	1.8672
17 S-LA	*****	1.4353	1.4759	1.4310	1.4511	1.4230
18 S-MO	*****	1.2163	0.9595	1.1484	1.2033	1.0677
19 S-NB	*****	*****	*****	*****	*****	*****
20 S-NI	*****	0.9306	0.9420	1.0053	1.0044	0.9847
21 S-PB	*****	2.7047	1.9631	2.3282	2.3015	2.3618
22 S-SB	*****	2.7922	2.3200	2.7595	2.6908	2.4976
23 S-SC	*****	0.6990	0.7844	0.7334	0.7787	0.7437
24 S-SN	*****	1.3591	1.4771	1.3871	1.3010	1.4771
25 S-SR	*****	2.2561	2.4157	2.3291	2.4541	2.3041
26 S-V	*****	1.2445	1.3477	1.3262	1.3616	1.2882
27 S-W	*****	*****	*****	*****	*****	*****
28 S-Y	*****	1.1181	1.1493	1.1539	1.1462	1.1667
29 S-ZN	*****	2.8644	2.6653	2.7333	2.4905	2.6248
30 S-ZR	*****	1.8745	1.8858	1.8494	1.8940	1.8460
31 S-TH	*****	*****	*****	*****	*****	*****
32 AA-AU-P	*****	-0.5316	-0.5074	-0.5316	-0.4473	-0.5262
33 INST-HG	*****	-0.0412	-0.1950	-0.1424	-0.1561	-0.0830
34 AA-AS-P	*****	2.2476	1.9833	2.1154	2.1164	2.1454
35 AA-ZN-P	*****	1.6570	1.6756	1.7365	1.6875	1.8150
36 AA-SB-P	*****	1.9180	1.5130	1.6791	1.7275	1.6937

1 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

Y OF VARIANCES -

	1 S-FE%	2 S-MG%	3 S-CA%	4 S-TI%	5 S-MN	6 S-AG	7 S-AS	8 S-AU	9 S-B	10 S-PA
S-FE%	0.237	0.231	0.180	0.237	0.236	0.201	0.225	*****	0.209	0.239
S-MG%	0.446	0.439	0.431	0.439	0.446	0.577	0.555	*****	0.298	0.418
S-CA%	0.528	0.530	0.532	0.532	0.532	0.725	0.607	*****	0.479	0.541
S-TI%	0.203	0.175	0.254	0.200	0.203	0.121	0.146	*****	0.181	0.194
S-MN	0.655	0.596	0.518	0.645	0.645	0.684	0.527	*****	0.609	0.661
S-AG	0.926	1.013	1.048	0.926	0.926	0.926	0.750	*****	0.913	0.929
S-AS	0.086	0.104	0.109	0.086	0.086	0.090	0.086	*****	0.102	0.083
S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-B	0.098	0.092	0.111	0.096	0.098	0.121	0.133	*****	0.096	0.091
S-BA	0.290	0.245	0.373	0.285	0.289	0.240	0.287	*****	0.224	0.285
S-BE	0.036	0.039	0.043	0.036	0.036	0.016	0.021	*****	0.076	0.037
S-RI	0.057	0.023	*****	0.057	0.057	0.057	0.066	*****	0.073	0.057
S-CD	0.580	0.746	0.746	0.580	0.580	0.580	0.016	*****	0.580	0.580
S-CO	0.226	0.235	0.287	0.220	0.220	0.280	0.359	*****	0.196	0.226
S-CR	0.026	0.031	0.028	0.029	0.029	0.021	0.015	*****	0.029	0.030
S-CU	0.942	0.938	1.166	0.931	0.920	0.819	0.808	*****	0.849	0.835
S-LA	0.021	0.020	0.023	0.021	0.020	0.016	0.019	*****	0.021	0.021
S-MO	0.200	0.084	0.117	0.200	0.200	0.220	0.227	*****	0.152	0.200
S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-NI	0.157	0.177	0.207	0.155	0.155	0.193	0.250	*****	0.156	0.162
S-PB	1.082	1.002	0.993	1.082	1.084	0.837	1.167	*****	0.942	1.103
S-SB	0.298	0.336	0.459	0.298	0.288	0.260	0.307	*****	0.322	0.288
S-SC	0.014	0.014	0.015	0.014	0.014	0.003	0.004	*****	0.014	0.014
S-SH	0.016	*****	*****	0.016	0.016	0.016	0.016	*****	0.016	0.016
S-SR	0.131	0.155	0.170	0.131	0.131	0.118	0.139	*****	0.146	0.133
S-V	0.125	0.129	0.126	0.126	0.129	0.079	0.124	*****	0.129	0.129
S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-Y	0.079	0.031	0.031	0.078	0.078	0.020	0.015	*****	0.030	0.028
S-ZH	0.208	0.207	0.209	0.208	0.208	0.228	0.239	*****	0.140	0.229
S-ZR	0.129	0.115	0.126	0.131	0.133	0.145	0.180	*****	0.107	0.125
S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
IA-AU-P	0.438	0.450	0.376	0.438	0.452	0.475	0.577	*****	0.479	0.438
INST-HS	0.327	0.337	0.312	0.327	0.334	0.202	0.088	*****	0.262	0.307
IA-AS-P	0.264	0.226	0.273	0.259	0.263	0.171	0.057	*****	0.210	0.250
IA-ZH-P	0.349	0.409	0.435	0.343	0.343	0.255	0.225	*****	0.357	0.323
IA-SB-P	0.468	0.476	0.495	0.504	0.515	0.417	0.235	*****	0.460	0.523

CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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OF VARIANCES - CONT.

	11	12	13	14	15	16	17	18	19	20
	S-BE	S-BI	S-CD	S-CC	S-CR	S-CU	S-LA	S-MO	S-NB	S-NI
S-FEZ	0.160	0.144	0.330	0.210	0.209	0.212	0.201	0.229	*****	0.219
S-MGZ	0.164	0.353	0.846	0.585	0.206	0.475	0.256	0.315	*****	0.556
S-CAZ	0.325	*****	1.283	0.692	0.374	0.554	0.410	0.600	*****	0.577
S-TIX	0.166	0.268	0.053	0.198	0.225	0.201	0.231	0.116	*****	0.211
S-MM	0.643	0.494	0.464	0.463	0.543	0.599	0.575	0.781	*****	0.535
S-AG	0.610	0.346	0.199	0.997	0.828	0.906	0.907	0.857	*****	0.953
S-AS	0.088	0.353	0.068	0.124	0.131	0.088	0.054	0.103	*****	0.110
S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-B	0.095	0.383	0.204	0.122	0.089	0.081	0.103	0.122	*****	0.115
S-BA	0.225	0.313	0.016	0.260	0.172	0.272	0.290	0.206	*****	0.277
S-RE	0.036	*****	*****	0.030	0.014	0.021	0.035	0.027	*****	0.345
S-BI	*****	0.357	*****	0.008	0.008	0.057	0.078	0.065	*****	0.350
S-CC	*****	*****	0.580	*****	0.746	0.580	0.580	0.316	*****	0.977
S-CC	0.012	0.311	*****	0.220	0.025	0.117	0.132	0.292	*****	0.235
S-CR	0.030	0.345	0.016	0.038	0.029	0.029	0.032	0.012	*****	0.031
S-CU	0.855	0.267	0.007	1.007	0.822	0.931	0.870	0.792	*****	0.924
S-LA	0.021	0.338	0.310	0.317	0.023	0.023	0.021	0.014	*****	0.318
S-MO	0.061	0.528	0.244	0.392	0.158	0.201	0.278	0.200	*****	0.191
S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-NI	0.047	0.318	0.104	0.195	0.059	0.079	0.122	0.239	*****	0.155
S-PB	0.800	0.373	*****	0.890	1.008	1.078	1.142	1.441	*****	0.776
S-SB	0.103	0.126	0.285	0.310	0.219	0.295	0.297	0.211	*****	0.323
S-SC	0.018	*****	*****	0.011	0.018	0.016	0.016	0.000	*****	0.009
S-SN	*****	0.016	*****	*****	*****	0.016	*****	0.016	*****	0.316
S-SR	0.169	0.316	*****	0.193	0.151	0.131	0.165	0.350	*****	0.142
S-V	0.140	0.330	0.357	0.161	0.147	0.137	0.120	0.155	*****	0.129
S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-Y	0.040	0.010	*****	0.036	0.049	0.030	0.033	0.012	*****	0.334
S-ZN	0.063	*****	*****	0.219	0.123	0.208	0.134	0.288	*****	0.221
S-ZR	0.109	0.261	0.192	0.126	0.129	0.138	0.128	0.124	*****	0.169
S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
AA-AU-P	0.452	0.384	0.552	0.301	0.352	0.448	0.461	0.506	*****	0.495
INST-HG	0.320	0.101	*****	0.104	0.192	0.262	0.391	0.105	*****	0.259
AA-AS-P	0.189	0.200	0.317	0.213	0.158	0.235	0.270	0.230	*****	0.223
AA-ZN-P	0.430	0.255	0.359	0.400	0.373	0.367	0.240	0.224	*****	0.326
AA-SB-P	0.415	0.152	0.057	0.528	0.438	0.457	0.565	0.406	*****	0.452

11 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

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COEFFICIENTS OF VARIANCES - CONT.

	21 S-PB	22 S-SB	23 S-SC	24 S-SN	25 S-SR	26 S-V	27 S-W	28 S-Y	29 S-ZN	30 S-ZR
S-FEZ	0.218	0.246	0.072	0.045	0.163	0.227	*****	0.156	0.264	0.229
S-MGZ	0.264	0.564	0.286	*****	0.464	0.188	*****	0.519	0.736	0.351
S-CAZ	0.371	0.586	0.403	*****	0.473	0.287	*****	0.505	0.689	0.492
S-TIZ	0.208	0.127	0.223	0.746	0.311	0.208	*****	0.242	0.106	0.199
S-MN	0.705	0.586	0.554	1.443	0.538	0.639	*****	0.757	0.549	0.651
S-AG	0.807	0.584	1.048	0.008	1.084	0.743	*****	1.078	1.072	0.884
S-AS	0.052	0.091	0.072	0.016	0.091	0.096	*****	0.072	0.172	0.070
S-AU	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-B	0.073	0.119	0.126	*****	0.137	0.077	*****	0.126	0.118	0.099
S-BA	0.265	0.220	0.222	0.303	0.334	0.247	*****	0.245	0.194	0.291
S-BE	0.020	0.022	0.020	*****	0.041	0.044	*****	0.024	0.038	0.036
S-BI	0.056	0.066	*****	0.000	0.016	0.123	*****	0.132	*****	0.057
S-CD	*****	0.580	*****	*****	0.746	*****	*****	*****	*****	0.580
S-CO	0.071	0.359	0.344	*****	0.297	0.010	*****	0.323	0.168	0.232
S-CR	0.027	0.014	0.031	*****	0.028	0.031	*****	0.030	0.008	0.029
S-CU	0.859	0.724	1.021	0.303	1.057	0.742	*****	1.063	1.431	0.911
S-LA	0.024	0.019	0.026	*****	0.027	0.020	*****	0.024	0.009	0.021
S-MO	0.212	0.241	0.237	1.091	0.386	0.049	*****	0.231	0.045	0.199
S-NB	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-NI	0.062	0.242	0.271	0.000	0.231	0.042	*****	0.213	0.072	0.157
S-PB	1.082	0.950	0.449	0.244	0.805	1.056	*****	0.689	0.943	1.106
S-SB	0.202	0.298	0.422	0.104	0.378	0.170	*****	0.405	0.396	0.281
S-SC	0.016	0.004	0.014	*****	0.016	0.018	*****	0.016	0.007	0.014
S-SN	0.016	0.016	*****	0.016	*****	*****	*****	*****	*****	0.016
S-SR	0.154	0.131	0.172	*****	0.131	0.175	*****	0.154	0.464	0.142
S-V	0.136	0.091	0.128	*****	0.157	0.126	*****	0.126	0.171	0.126
S-W	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
S-Y	0.032	0.016	0.040	*****	0.039	0.039	*****	0.028	0.014	0.029
S-ZN	0.196	0.256	0.379	*****	0.101	0.059	*****	0.117	0.208	0.195
S-ZR	0.119	0.182	0.180	0.667	0.179	0.113	*****	0.186	0.158	0.131
S-TH	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****
AA-AU->	0.441	0.504	0.124	0.165	0.308	0.493	*****	0.425	0.072	0.438
INST-HG	0.252	0.184	0.264	*****	0.391	0.339	*****	0.337	0.106	0.335
AA-AS-P	0.214	0.126	0.293	0.025	0.320	0.228	*****	0.323	0.117	0.265
AA-ZN-P	0.359	0.141	0.513	*****	0.306	0.327	*****	0.465	0.096	0.345
AA-SB->	0.499	0.145	0.216	*****	0.545	0.432	*****	0.383	0.374	0.505

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Y OF VARIANCES - CONT.

	31	32	33	34	35	36
	S-TH	AA-AU-P	INST-HG	AA-AS-P	AA-ZN-P	AA-SB-P
S-FEX	*****	0.151	0.235	0.202	0.223	0.240
S-MGZ	*****	0.522	0.279	0.490	0.221	0.315
S-CAZ	*****	0.960	0.394	0.625	0.278	0.523
S-TIZ	*****	0.132	0.206	0.161	0.217	0.102
S-MN	*****	0.708	0.703	0.706	0.605	0.753
S-AG	*****	0.861	0.493	0.935	0.865	0.784
S-AS	*****	0.040	0.074	0.043	0.075	0.080
S-AU	*****	*****	*****	*****	*****	*****
S-B	*****	0.088	0.073	0.088	0.100	0.076
S-BA	*****	0.258	0.253	0.251	0.256	0.216
S-BE	*****	0.019	0.040	0.040	0.038	0.041
S-BI	*****	0.057	0.088	0.057	0.065	0.067
S-CD	*****	0.580	*****	0.580	0.016	0.746
S-CO	*****	0.168	0.061	0.177	0.190	0.059
S-CR	*****	0.025	0.029	0.033	0.026	0.026
S-CU	*****	0.866	0.842	0.864	0.789	0.874
S-LA	*****	0.018	0.024	0.018	0.022	0.016
S-MO	*****	0.294	0.060	0.213	0.206	0.136
S-NB	*****	*****	*****	*****	*****	*****
S-NI	*****	0.079	0.062	0.128	0.149	0.065
S-PB	*****	1.187	0.723	1.148	1.102	1.139
S-SB	*****	0.227	0.128	0.295	0.244	0.170
S-SC	*****	0.000	0.016	0.000	0.016	0.010
S-SN	*****	0.016	*****	0.016	*****	*****
S-SR	*****	0.050	0.157	0.106	0.154	0.110
S-V	*****	0.084	0.139	0.120	0.134	0.108
S-W	*****	*****	*****	*****	*****	*****
S-Y	*****	0.024	0.035	0.030	0.026	0.038
S-ZH	*****	0.757	0.270	0.223	0.051	0.207
S-ZR	*****	0.152	0.095	0.139	0.116	0.108
S-TH	*****	*****	*****	*****	*****	*****
AA-AU-P	*****	0.438	0.357	0.438	0.508	0.431
INST-HG	*****	0.220	0.327	0.307	0.324	0.308
AA-AS-P	*****	0.220	0.200	0.250	0.262	0.175
AA-ZN-P	*****	0.209	0.497	0.308	0.343	0.315
AA-SB-P	*****	0.569	0.405	0.514	0.463	0.504

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
1 (S-FEZ))	2 (S-MGZ)	0.2773	47
1 (S-FEZ )	)	3 (S-CAZ)	0.3315	31
1 (S-FEZ )	)	4 (S-TIX)	0.2527	60
1 (S-FEZ )	)	5 (S-MN)	0.3700	59
1 (S-FEZ )	)	6 (S-AG)	-0.0871	37
1 (S-FEZ )	)	7 (S-AS)	0.4771	25
1 (S-FEZ )	)	8 (S-AU)	*****	0
1 (S-FEZ )	)	9 (S-B)	0.1220	49
1 (S-FEZ )	)	10 (S-BA)	0.0502	58
1 (S-FEZ )	)	11 (S-BE)	0.2752	22
1 (S-FEZ )	)	12 (S-BI)	0.3250	8
1 (S-FEZ )	)	13 (S-CD)	0.3965	3
1 (S-FEZ )	)	14 (S-CO)	0.4376	23
1 (S-FEZ )	)	15 (S-CR)	0.2062	26
1 (S-FEZ )	)	16 (S-CU)	0.0193	52
1 (S-FEZ )	)	17 (S-LA)	0.1263	43
1 (S-FEZ )	)	18 (S-MO)	-0.0059	24
1 (S-FEZ )	)	19 (S-MB)	*****	0
1 (S-FEZ )	)	20 (S-NI)	0.3778	38
1 (S-FEZ )	)	21 (S-PE)	-0.3043	46
1 (S-FEZ )	)	22 (S-SB)	-0.1497	29
1 (S-FEZ )	)	23 (S-SC)	0.1208	18
1 (S-FEZ )	)	24 (S-SN)	-1.0000	2
1 (S-FEZ )	)	25 (S-SR)	0.1631	26
1 (S-FEZ )	)	26 (S-V)	0.3684	38
1 (S-FEZ )	)	27 (S-W)	*****	0
1 (S-FEZ )	)	28 (S-Y)	0.2159	27
1 (S-FEZ )	)	29 (S-ZN)	0.0552	12
1 (S-FEZ )	)	30 (S-ZR)	0.0140	57
1 (S-FEZ )	)	31 (S-TH)	*****	0
1 (S-FEZ )	)	32 (AA-AJ-P)	0.0082	29
1 (S-FEZ )	)	33 (INST-HG)	0.2703	39
1 (S-FEZ )	)	34 (AA-AS-P)	0.1560	50
1 (S-FEZ )	)	35 (AA-ZN-P)	0.4037	47
1 (S-FEZ )	)	36 (AA-SB-P)	-0.1259	43
2 (S-MGZ )	)	3 (S-CAZ)	0.8141	29
2 (S-MGZ )	)	4 (S-TIX)	-0.3174	48
2 (S-MGZ )	)	5 (S-MN)	0.1886	47
2 (S-MGZ )	)	6 (S-AG)	0.3355	28
2 (S-MGZ )	)	7 (S-AS)	0.2605	18
2 (S-MGZ )	)	8 (S-AU)	*****	0
2 (S-MGZ )	)	9 (S-B)	0.2777	41
2 (S-MGZ )	)	10 (S-BA)	-0.1267	45
2 (S-MGZ )	)	11 (S-BE)	-0.3319	20
2 (S-MGZ )	)	12 (S-BI)	-0.9107	3
2 (S-MGZ )	)	13 (S-CD)	1.0000	2
2 (S-MGZ )	)	14 (S-CO)	0.5328	22
2 (S-MGZ )	)	15 (S-CR)	-0.0833	23
2 (S-MGZ )	)	16 (S-CU)	0.3288	41
2 (S-MGZ )	)	17 (S-LA)	-0.1563	34

00101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
2 (S-MGZ)	18 (S-MO)	2	0.1121	17
2 (S-MGZ)	19 (S-NB)	2	*****	0
2 (S-MGZ)	20 (S-NI)	2	0.4927	31
2 (S-MGZ)	21 (S-PB)	2	0.0834	35
2 (S-MGZ)	22 (S-S9)	2	0.4163	22
2 (S-MGZ)	23 (S-SC)	2	-0.0777	17
2 (S-MGZ)	24 (S-SN)	2	*****	1
2 (S-MGZ)	25 (S-SP)	2	-0.2439	20
2 (S-MGZ)	26 (S-V)	2	-0.0373	34
2 (S-MGZ)	27 (S-W)	2	*****	0
2 (S-MGZ)	28 (S-Y)	2	-0.0189	24
2 (S-MGZ)	29 (S-ZH)	2	0.3118	11
2 (S-MGZ)	30 (S-ZR)	2	-0.5089	45
2 (S-MGZ)	31 (S-TH)	2	*****	0
2 (S-MGZ)	32 (AA-AJ-P)	2	-0.2546	18
2 (S-MGZ)	33 (INST-HG)	2	0.0074	33
2 (S-MGZ)	34 (AA-AS-P)	2	0.2374	39
2 (S-MGZ)	35 (AA-ZN-P)	2	-0.1210	36
2 (S-MGZ)	36 (AA-SB-P)	2	0.0126	35
3 (S-CAZ)	4 (S-TIX)	3	-0.2075	32
3 (S-CAZ)	5 (S-MN)	3	0.5033	32
3 (S-CAZ)	6 (S-AG)	3	0.3452	14
3 (S-CAZ)	7 (S-AS)	3	0.1900	14
3 (S-CAZ)	8 (S-AU)	3	*****	0
3 (S-CAZ)	9 (S-B)	3	0.3154	29
3 (S-CAZ)	10 (S-BA)	3	-0.2595	31
3 (S-CAZ)	11 (S-RE)	3	-0.3627	16
3 (S-CAZ)	12 (S-BI)	3	*****	1
3 (S-CAZ)	13 (S-CD)	3	1.0000	2
3 (S-CAZ)	14 (S-CO)	3	0.6862	16
3 (S-CAZ)	15 (S-CR)	3	-0.2575	17
3 (S-CAZ)	16 (S-CU)	3	0.5102	27
3 (S-CAZ)	17 (S-LA)	3	-0.3443	22
3 (S-CAZ)	18 (S-MO)	3	0.2854	13
3 (S-CAZ)	19 (S-NR)	3	*****	0
3 (S-CAZ)	20 (S-NI)	3	0.5774	24
3 (S-CAZ)	21 (S-PB)	3	-0.0532	20
3 (S-CAZ)	22 (S-SB)	3	0.2009	14
3 (S-CAZ)	23 (S-SC)	3	-0.2229	16
3 (S-CAZ)	24 (S-SN)	3	*****	1
3 (S-CAZ)	25 (S-SR)	3	-0.0124	18
3 (S-CAZ)	26 (S-V)	3	0.0067	19
3 (S-CAZ)	27 (S-W)	3	*****	0
3 (S-CAZ)	28 (S-Y)	3	0.1989	19
3 (S-CAZ)	29 (S-ZN)	3	0.1474	9
3 (S-CAZ)	30 (S-ZR)	3	-0.5731	30
3 (S-CAZ)	31 (S-TH)	3	*****	0
3 (S-CAZ)	32 (AA-AJ-P)	3	-0.5262	7
3 (S-CAZ)	33 (INST-HG)	3	0.4509	20
3 (S-CAZ)	34 (AA-AS-P)	3	0.4295	24

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COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
3 (S-CAZ)		35 (AA-ZN-P)	0.1016	25
3 (S-CAZ)		36 (AA-SB-P)	0.3406	18
4 (S-TIX)		5 (S-MV)	-0.0088	60
4 (S-TIX)		6 (S-AG)	-0.2886	37
4 (S-TIX)		7 (S-AS)	0.0255	25
4 (S-TIX)		8 (S-AU)	*****	0
4 (S-TIX)		9 (S-B)	0.2086	50
4 (S-TIX)		10 (S-BA)	0.4535	59
4 (S-TIX)		11 (S-BE)	-0.5516	23
4 (S-TIX)		12 (S-BI)	-0.4020	8
4 (S-TIX)		13 (S-CD)	0.9933	3
4 (S-TIX)		14 (S-CO)	-0.2938	24
4 (S-TIX)		15 (S-CR)	0.5792	27
4 (S-TIX)		16 (S-CU)	-0.1293	53
4 (S-TIX)		17 (S-LA)	0.6539	44
4 (S-TIX)		18 (S-MO)	0.5270	24
4 (S-TIX)		19 (S-NB)	*****	0
4 (S-TIX)		20 (S-NI)	-0.1085	39
4 (S-TIX)		21 (S-PB)	-0.1679	46
4 (S-TIX)		22 (S-SB)	-0.3591	29
4 (S-TIX)		23 (S-SC)	0.5796	18
4 (S-TIX)		24 (S-SN)	-1.0000	2
4 (S-TIX)		25 (S-SR)	0.5375	26
4 (S-TIX)		26 (S-V)	0.3864	39
4 (S-TIX)		27 (S-W)	*****	0
4 (S-TIX)		28 (S-Y)	0.1383	28
4 (S-TIX)		29 (S-ZN)	-0.4482	12
4 (S-TIX)		30 (S-ZR)	0.6670	58
4 (S-TIX)		31 (S-TH)	*****	0
4 (S-TIX)		32 (AA-AU-P)	0.1825	29
4 (S-TIX)		33 (INST-HC)	0.1042	39
4 (S-TIX)		34 (AA-AS-P)	-0.1576	51
4 (S-TIX)		35 (AA-ZN-P)	-0.1414	48
4 (S-TIX)		36 (AA-SB-P)	-0.0478	44
5 (S-MN)		6 (S-AG)	0.3371	37
5 (S-MN)		7 (S-AS)	-0.1124	25
5 (S-MN)		8 (S-AU)	*****	0
5 (S-MN)		9 (S-B)	0.1151	49
5 (S-MN)		10 (S-BA)	-0.2494	58
5 (S-MN)		11 (S-BE)	0.1110	23
5 (S-MN)		12 (S-BI)	0.1349	8
5 (S-MN)		13 (S-CD)	0.9432	3
5 (S-MN)		14 (S-CO)	0.2595	24
5 (S-MN)		15 (S-CR)	-0.3328	27
5 (S-MN)		16 (S-CU)	0.1067	52
5 (S-MN)		17 (S-LA)	0.0056	43
5 (S-MN)		18 (S-MO)	-0.3708	24
5 (S-MN)		19 (S-NB)	*****	0
5 (S-MN)		20 (S-NI)	0.4397	39
5 (S-MN)		21 (S-PB)	-0.0272	45

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DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
(S-MN)	22	(S-SB)	0.0237	28
(S-MN)	23	(S-SC)	-0.2642	18
(S-MN)	24	(S-SN)	1.0000	2
(S-MN)	25	(S-SR)	0.0306	26
(S-MN)	26	(S-V)	0.1375	38
(S-MN)	27	(S-W)	*****	0
(S-MN)	28	(S-Y)	0.1796	27
(S-MN)	29	(S-ZN)	0.2059	12
(S-MN)	30	(S-ZR)	-0.2476	57
(S-MN)	31	(S-TH)	*****	0
(S-MN)	32	(AA-AU-P)	-0.2624	28
(S-MN)	33	(INST-HG)	0.3100	38
(S-MN)	34	(AA-AS-P)	-0.0031	50
(S-MN)	35	(AA-ZN-P)	0.3401	48
(S-MN)	36	(AA-SB-P)	-0.0318	43
(S-AG)	7	(S-AS)	-0.1034	23
(S-AG)	8	(S-AU)	*****	0
(S-AG)	9	(S-B)	-0.1254	30
(S-AG)	10	(S-BA)	-0.0660	36
(S-AG)	11	(S-BE)	0.1425	11
(S-AG)	12	(S-BI)	-0.1167	8
(S-AG)	13	(S-CD)	-0.5700	3
(S-AG)	14	(S-CD)	0.5471	19
(S-AG)	15	(S-CP)	-0.0983	17
(S-AG)	16	(S-CJ)	0.6868	35
(S-AG)	17	(S-LA)	-0.1129	24
(S-AG)	18	(S-MC)	0.2931	20
(S-AG)	19	(S-NB)	*****	0
(S-AG)	20	(S-NI)	0.2998	26
(S-AG)	21	(S-PB)	0.8388	28
(S-AG)	22	(S-SB)	0.7560	26
(S-AG)	23	(S-SC)	-0.4217	8
(S-AG)	24	(S-SN)	1.0000	2
(S-AG)	25	(S-SR)	-0.2619	13
(S-AG)	26	(S-V)	0.4261	20
(S-AG)	27	(S-W)	*****	0
(S-AG)	28	(S-Y)	-0.0756	14
(S-AG)	29	(S-ZN)	0.0026	11
(S-AG)	30	(S-ZR)	-0.1968	34
(S-AG)	31	(S-TH)	*****	0
(S-AG)	32	(AA-AU-P)	0.1030	23
(S-AG)	33	(INST-HG)	0.2627	19
(S-AG)	34	(AA-AS-P)	0.4151	32
(S-AG)	35	(AA-ZN-P)	-0.2105	28
(S-AG)	36	(AA-SB-P)	0.7948	29
(S-AS)	8	(S-AU)	*****	0
(S-AS)	9	(S-B)	0.3462	20
(S-AS)	10	(S-BA)	0.0840	24
(S-AS)	11	(S-BE)	-0.5123	7
(S-AS)	12	(S-BI)	-0.0240	7

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DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
(S-AS))	13 (S-CD)	-1.0000	2
(S-AS )	)	14 (S-CO)	0.3727	11
(S-AS )	)	15 (S-CP)	-0.1489	11
(S-AS )	)	16 (S-CU)	-0.1140	23
(S-AS )	)	17 (S-LA)	-0.0576	17
(S-AS )	)	18 (S-MO)	0.2486	18
(S-AS )	)	19 (S-NB)	*****	0
(S-AS )	)	20 (S-NI)	0.3201	17
(S-AS )	)	21 (S-PB)	-0.2275	17
(S-AS )	)	22 (S-SB)	-0.0100	22
(S-AS )	)	23 (S-SC)	0.5133	6
(S-AS )	)	24 (S-SN)	-1.0000	2
(S-AS )	)	25 (S-SR)	0.3073	10
(S-AS )	)	26 (S-V)	-0.1455	11
(S-AS )	)	27 (S-W)	*****	0
(S-AS )	)	28 (S-Y)	0.2539	10
(S-AS )	)	29 (S-ZN)	-0.1173	8
(S-AS )	)	30 (S-ZR)	-0.0814	23
(S-AS )	)	31 (S-TH)	*****	0
(S-AS )	)	32 (AA-AJ-F)	-0.2528	15
(S-AS )	)	33 (INST-HG)	0.3781	9
(S-AS )	)	34 (AA-AS-P)	0.6871	21
(S-AS )	)	35 (AA-ZN-F)	-0.0152	19
(S-AS )	)	36 (AA-SB-P)	-0.1800	17
(S-AU )	)	9 (S-B)	*****	0
(S-AU )	)	10 (S-BA)	*****	0
(S-AU )	)	11 (S-BE)	*****	0
(S-AU )	)	12 (S-BI)	*****	0
(S-AU )	)	13 (S-CD)	*****	0
(S-AU )	)	14 (S-CO)	*****	0
(S-AU )	)	15 (S-CR)	*****	0
(S-AU )	)	16 (S-CU)	*****	0
(S-AU )	)	17 (S-LA)	*****	0
(S-AU )	)	18 (S-MO)	*****	0
(S-AU )	)	19 (S-NB)	*****	0
(S-AU )	)	20 (S-NI)	*****	0
(S-AU )	)	21 (S-PB)	*****	0
(S-AU )	)	22 (S-SB)	*****	0
(S-AU )	)	23 (S-SC)	*****	0
(S-AU )	)	24 (S-SN)	*****	0
(S-AU )	)	25 (S-SR)	*****	0
(S-AU )	)	26 (S-V)	*****	0
(S-AU )	)	27 (S-W)	*****	0
(S-AU )	)	28 (S-Y)	*****	0
(S-AU))	29 (S-ZN)	*****	0
(S-AU))	30 (S-ZR)	*****	0
(S-AU))	31 (S-TH)	*****	0
(S-AU))	32 (AA-AJ-P)	*****	0
(S-AU))	33 (INST-HG)	*****	0
(S-AU))	34 (AA-AS-P)	*****	0

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DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
3 (S-AU))	35 (AA-ZN-P)	*****	0
3 (S-AU )	)	36 (AA-SB-P)	*****	0
7 (S-B )	)	10 (S-BA)	0.1274	49
7 (S-B )	)	11 (S-BE)	-0.4540	23
7 (S-B )	)	12 (S-BI)	-0.5620	5
7 (S-B )	)	13 (S-CD)	0.7187	3
7 (S-B )	)	14 (S-CC)	0.5693	21
7 (S-B )	)	15 (S-CR)	-0.0024	27
7 (S-B )	)	16 (S-CU)	0.0969	45
7 (S-B )	)	17 (S-LA)	0.1252	38
7 (S-B )	)	18 (S-YO)	0.0692	21
7 (S-B )	)	19 (S-YB)	*****	0
7 (S-B )	)	20 (S-NI)	0.5984	34
7 (S-B )	)	21 (S-PB)	0.0756	38
7 (S-B )	)	22 (S-SB)	-0.3050	25
7 (S-B )	)	23 (S-SC)	0.1526	18
7 (S-B )	)	24 (S-SN)	*****	1
7 (S-B )	)	25 (S-SR)	0.2615	23
7 (S-B )	)	26 (S-V)	0.0036	34
7 (S-B )	)	27 (S-W)	*****	0
7 (S-B )	)	28 (S-Y)	0.4239	25
7 (S-B )	)	29 (S-ZN)	-0.1999	10
7 (S-B )	)	30 (S-ZP)	-0.0333	48
7 (S-B )	)	31 (S-TH)	*****	0
9 (S-B )	)	32 (AA-AU-P)	-0.0680	23
9 (S-B )	)	33 (INST-HG)	0.2604	33
9 (S-B )	)	34 (AA-AS-P)	0.1954	42
9 (S-B )	)	35 (AA-ZN-P)	0.0368	41
9 (S-B )	)	36 (AA-SB-P)	0.2820	36
0 (S-BA )	)	11 (S-BE)	-0.4802	22
0 (S-BA )	)	12 (S-BI)	-0.2143	8
0 (S-BA )	)	13 (S-CD)	-0.3965	3
0 (S-BA )	)	14 (S-CC)	-0.1098	23
0 (S-BA )	)	15 (S-CR)	0.2696	26
0 (S-BA )	)	16 (S-CU)	-0.3112	51
0 (S-BA )	)	17 (S-LA)	0.1799	43
0 (S-BA )	)	18 (S-YO)	0.4978	24
0 (S-BA )	)	19 (S-YB)	*****	0
0 (S-BA )	)	20 (S-NI)	-0.0048	37
0 (S-BA )	)	21 (S-PB)	-0.2077	45
0 (S-BA )	)	22 (S-SB)	-0.0119	28
0 (S-BA )	)	23 (S-SC)	0.3943	17
0 (S-BA )	)	24 (S-SN)	-1.0000	2
0 (S-BA )	)	25 (S-SR)	0.3436	24
0 (S-BA )	)	26 (S-V)	0.2217	37
0 (S-BA))	27 (S-W)	*****	0
0 (S-BA))	28 (S-Y)	-0.0690	26
0 (S-BA))	29 (S-ZN)	-0.6205	11
0 (S-BA))	30 (S-ZP)	0.3514	56
0 (S-BA))	31 (S-TH)	*****	0

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DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
(S-BA)	32	(AA-AU-P)	0.2311	29
(S-BA)	33	(INST-HG)	-0.0244	37
(S-BA)	34	(AA-AS-P)	-0.0480	50
(S-BA)	35	(AA-ZN-P)	-0.2489	46
(S-BA)	36	(AA-S3-P)	-0.1018	42
(S-BE)	12	(S-BI)	*****	1
(S-BE)	13	(S-CD)	*****	1
(S-BE)	14	(S-CO)	0.4632	9
(S-BE)	15	(S-CR)	-0.0320	14
(S-BE)	16	(S-CU)	-0.1161	21
(S-BE)	17	(S-LA)	-0.0761	19
(S-BE)	18	(S-MO)	-0.4947	10
(S-BE)	19	(S-NB)	*****	0
(S-BE)	20	(S-NI)	-0.0837	16
(S-BE)	21	(S-PB)	0.2135	20
(S-BE)	22	(S-SB)	0.3461	7
(S-BE)	23	(S-SC)	-0.2694	12
(S-BE)	24	(S-SN)	*****	0
(S-BE)	25	(S-SR)	-0.3484	12
(S-BE)	26	(S-V)	-0.0225	18
(S-BE)	27	(S-W)	*****	0
(S-BE)	28	(S-Y)	-0.1697	15
(S-BE)	29	(S-ZN)	0.5469	5
(S-BE)	30	(S-ZR)	-0.1660	23
(S-BE)	31	(S-TH)	*****	0
(S-BE)	32	(AA-AJ-P)	0.6011	8
(S-BE)	33	(INST-HG)	-0.5104	18
(S-BE)	34	(AA-AS-P)	0.0748	19
(S-BE)	35	(AA-ZN-P)	0.1952	21
(S-BE)	36	(AA-SB-P)	-0.1690	19
(S-BI)	13	(S-CD)	*****	1
(S-BI)	14	(S-CO)	-1.0000	2
(S-BI)	15	(S-CR)	-1.0000	2
(S-BI)	16	(S-CJ)	0.0329	8
(S-BI)	17	(S-LA)	-0.3436	6
(S-BI)	18	(S-MO)	-0.4899	6
(S-BI)	19	(S-VB)	*****	0
(S-BI)	20	(S-NI)	0.9723	5
(S-BI)	21	(S-PB)	0.0597	7
(S-BI)	22	(S-SB)	0.2154	7
(S-BI)	23	(S-SC)	*****	1
(S-BI)	24	(S-SN)	*****	2
(S-BI)	25	(S-SR)	1.0000	2
(S-BI)	26	(S-V)	-0.8234	3
(S-BI)	27	(S-W)	*****	0
(S-BI)	28	(S-Y)	-0.9702	3
(S-BI)	29	(S-ZN)	*****	1
(S-BI)	30	(S-ZR)	-0.3367	8
(S-BI)	31	(S-TH)	*****	0
(S-BI)	32	(AA-AU-P)	0.2065	8

101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
(S-BI)	33	(INST-HG)	-0.6392	4
(S-BI)	34	(AA-AS-P)	-0.0479	8
(S-BI)	35	(AA-ZN-P)	0.1847	7
(S-BI)	36	(AA-SB-P)	-0.1871	6
(S-CD)	14	(S-CO)	*****	0
(S-CD)	15	(S-CR)	-1.0000	2
(S-CD)	16	(S-CU)	0.3965	3
(S-CD)	17	(S-LA)	0.3965	3
(S-CD)	18	(S-MO)	-1.0000	2
(S-CD)	19	(S-NB)	*****	0
(S-CD)	20	(S-NI)	1.0000	2
(S-CD)	21	(S-PB)	*****	1
(S-CD)	22	(S-SB)	-0.9988	3
(S-CD)	23	(S-SC)	*****	1
(S-CD)	24	(S-SV)	*****	0
(S-CD)	25	(S-SR)	*****	1
(S-CD)	26	(S-V)	-1.0000	2
(S-CD)	27	(S-W)	*****	0
(S-CD)	28	(S-Y)	*****	0
(S-CD)	29	(S-ZN)	*****	0
(S-CD)	30	(S-ZR)	-0.9572	3
(S-CD)	31	(S-TH)	*****	0
(S-CD)	32	(AA-AU-P)	-0.5968	3
(S-CD)	33	(INST-HG)	*****	0
(S-CD)	34	(AA-AS-P)	-0.9834	3
(S-CD)	35	(AA-ZN-P)	1.0000	2
(S-CD)	36	(AA-SB-P)	-1.0000	2
(S-CO)	15	(S-CR)	-0.3093	15
(S-CO)	16	(S-CU)	0.3660	22
(S-CO)	17	(S-LA)	-0.3948	12
(S-CO)	18	(S-MO)	0.7391	12
(S-CO)	19	(S-NB)	*****	0
(S-CO)	20	(S-NI)	0.8556	22
(S-CO)	21	(S-PB)	0.1440	18
(S-CO)	22	(S-SB)	0.3359	11
(S-CO)	23	(S-SC)	-0.3519	10
(S-CO)	24	(S-SN)	*****	1
(S-CO)	25	(S-SR)	-0.0611	12
(S-CO)	26	(S-V)	0.2900	12
(S-CO)	27	(S-W)	*****	0
(S-CO)	28	(S-Y)	0.0346	14
(S-CO)	29	(S-ZN)	0.2568	10
(S-CO)	30	(S-ZR)	-0.5627	22
(S-CO)	31	(S-TH)	*****	0
(S-CO)	32	(AA-AU-P)	-0.2510	9
(S-CO)	33	(INST-HG)	0.2005	16
(S-CO)	34	(AA-AS-P)	0.5832	20
(S-CO)	35	(AA-ZN-P)	-0.0320	18
(S-CO)	36	(AA-SB-P)	0.1326	17
(S-CR)	16	(S-CU)	-0.1974	27

0101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
5 (S-CR )	)	17 (S-LA)	0.4829	20
5 (S-CR )	)	18 (S-MO)	0.7189	11
5 (S-CR )	)	19 (S-NB)	*****	0
5 (S-CR )	)	20 (S-NI)	-0.2162	21
5 (S-CR )	)	21 (S-PB)	-0.2140	23
5 (S-CR )	)	22 (S-SB)	0.1261	13
5 (S-CR )	)	23 (S-SC)	0.2314	11
5 (S-CR )	)	24 (S-SN)	*****	1
5 (S-CR )	)	25 (S-SR)	0.3369	14
5 (S-CR )	)	26 (S-V)	0.5292	21
5 (S-CR )	)	27 (S-W)	*****	0
5 (S-CR )	)	28 (S-Y)	0.4202	13
5 (S-CR )	)	29 (S-ZH)	0.0444	8
5 (S-CR )	)	30 (S-ZR)	0.3485	26
5 (S-CR )	)	31 (S-TH)	*****	0
5 (S-CR )	)	32 (AA-AU-P)	0.2266	12
5 (S-CR )	)	33 (INST-HG)	-0.1998	19
5 (S-CR )	)	34 (AA-AS-P)	-0.1264	22
5 (S-CR )	)	35 (AA-ZN-P)	-0.1394	24
5 (S-CR )	)	36 (AA-SB-P)	-0.3460	21
6 (S-CU )	)	17 (S-LA)	-0.3481	37
6 (S-CU )	)	18 (S-MO)	0.0999	21
6 (S-CU )	)	19 (S-NB)	*****	0
6 (S-CU )	)	20 (S-NI)	0.2600	35
6 (S-CU )	)	21 (S-PB)	0.8291	43
6 (S-CU )	)	22 (S-SB)	0.4770	27
6 (S-CU )	)	23 (S-SC)	0.0699	15
6 (S-CU )	)	24 (S-SN)	1.0000	2
6 (S-CU )	)	25 (S-SR)	0.2259	22
6 (S-CU )	)	26 (S-V)	-0.2010	34
6 (S-CU )	)	27 (S-W)	*****	0
6 (S-CU )	)	28 (S-Y)	0.2304	25
6 (S-CU )	)	29 (S-ZH)	0.5449	12
6 (S-CU )	)	30 (S-ZR)	-0.0158	50
6 (S-CU )	)	31 (S-TH)	*****	0
6 (S-CU )	)	32 (AA-AU-P)	-0.0762	27
6 (S-CU )	)	33 (INST-HG)	0.4082	34
6 (S-CU )	)	34 (AA-AS-P)	0.4062	46
6 (S-CU )	)	35 (AA-ZN-P)	0.3391	43
6 (S-CU )	)	36 (AA-SB-P)	0.6531	40
7 (S-LA )	)	18 (S-MO)	0.3233	16
7 (S-LA )	)	19 (S-VB)	*****	0
7 (S-LA )	)	20 (S-NI)	-0.2023	24
7 (S-LA )	)	21 (S-PB)	-0.3064	34
7 (S-LA )	)	22 (S-SB)	-0.1598	23
7 (S-LA )	)	23 (S-SC)	0.4887	14
7 (S-LA )	)	24 (S-SN)	*****	1
7 (S-LA )	)	25 (S-SR)	0.0820	20
7 (S-LA )	)	26 (S-V)	0.3042	33
7 (S-LA )	)	27 (S-W)	*****	0

101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
(S-LA)	28	(S-Y)	0.2475	21
(S-LA)	29	(S-ZN)	-0.2267	5
(S-LA)	30	(S-ZR)	0.4716	43
(S-LA)	31	(S-TH)	*****	0
(S-LA)	32	(AA-AU-P)	0.0894	22
(S-LA)	33	(INST-HG)	-0.2265	27
(S-LA)	34	(AA-AS-P)	-0.3251	37
(S-LA)	35	(AA-ZN-P)	-0.4666	35
(S-LA)	36	(AA-SB-P)	-0.2922	30
(S-MO)	19	(S-NB)	*****	0
(S-MO)	20	(S-NI)	0.1550	16
(S-MO)	21	(S-PB)	0.1872	12
(S-MO)	22	(S-SB)	0.2106	17
(S-MO)	23	(S-SC)	*****	8
(S-MO)	24	(S-SN)	-1.0000	2
(S-MO)	25	(S-SR)	0.3899	8
(S-MO)	26	(S-V)	0.0260	11
(S-MO)	27	(S-W)	*****	0
(S-MO)	28	(S-Y)	0.4068	11
(S-MO)	29	(S-ZN)	-0.6154	3
(S-MO)	30	(S-ZR)	0.5406	23
(S-MO)	31	(S-TH)	*****	0
(S-MO)	32	(AA-AU-P)	0.2308	12
(S-MO)	33	(INST-HG)	0.6006	10
(S-MO)	34	(AA-AS-P)	0.3707	20
(S-MO)	35	(AA-ZN-P)	-0.1706	21
(S-MO)	36	(AA-SB-P)	0.0008	18
(S-NB)	20	(S-NI)	*****	0
(S-NB)	21	(S-PB)	*****	0
(S-NB)	22	(S-SB)	*****	0
(S-NB)	23	(S-SC)	*****	0
(S-NB)	24	(S-SN)	*****	0
(S-NB)	25	(S-SR)	*****	0
(S-NB)	26	(S-V)	*****	0
(S-NB)	27	(S-W)	*****	0
(S-NB)	28	(S-Y)	*****	0
(S-NB)	29	(S-ZN)	*****	0
(S-NB)	30	(S-ZR)	*****	0
(S-NB)	31	(S-TH)	*****	0
(S-NB)	32	(AA-AU-P)	*****	0
(S-NB)	33	(INST-HG)	*****	0
(S-NB)	34	(AA-AS-P)	*****	0
(S-NB)	35	(AA-ZN-P)	*****	0
(S-NB)	36	(AA-SB-P)	*****	0
(S-NI)	21	(S-PB)	0.0282	26
(S-NI)	22	(S-SB)	0.2520	19
(S-NI)	23	(S-SC)	-0.2636	13
(S-NI)	24	(S-SN)	*****	2
(S-NI)	25	(S-SR)	0.0245	19
(S-NI)	26	(S-V)	0.0060	24

D0101 - CORRELATION ANALYSIS - USGS STATPAC (01/15/32)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
20 (S-NI )	)	27 (S-W)	*****	0
20 (S-NI )	)	28 (S-Y)	0.1766	20
20 (S-NI )	)	29 (S-ZN)	-0.3051	11
20 (S-NI )	)	30 (S-ZR)	-0.1989	37
20 (S-NI )	)	31 (S-TH)	*****	0
20 (S-NI )	)	32 (AA-AJ-P)	-0.4369	18
20 (S-NI )	)	33 (INST-HG)	0.3668	26
20 (S-NI )	)	34 (AA-AS-P)	0.3472	34
20 (S-NI )	)	35 (AA-ZN-P)	0.3394	31
20 (S-NI )	)	36 (AA-SB-P)	-0.0688	28
21 (S-PB )	)	22 (S-SB)	0.6439	20
21 (S-PB )	)	23 (S-SC)	0.1646	14
21 (S-PB )	)	24 (S-SN)	1.0000	2
21 (S-PB )	)	25 (S-SR)	0.1975	18
21 (S-PB )	)	26 (S-V)	-0.2666	31
21 (S-PB )	)	27 (S-W)	*****	0
21 (S-PB )	)	28 (S-Y)	0.1639	21
21 (S-PB )	)	29 (S-ZN)	0.4912	9
21 (S-PB )	)	30 (S-ZR)	0.1105	45
21 (S-PB )	)	31 (S-TH)	*****	0
21 (S-PB )	)	32 (AA-AJ-P)	0.0463	25
21 (S-PB )	)	33 (INST-HG)	0.1635	34
21 (S-PB )	)	34 (AA-AS-P)	0.3358	40
21 (S-PB )	)	35 (AA-ZN-P)	0.1023	39
21 (S-PB )	)	36 (AA-SB-P)	0.7447	38
2 (S-SB )	)	23 (S-SC)	-0.5508	6
2 (S-SB )	)	24 (S-SN)	-1.0000	2
2 (S-SB )	)	25 (S-SR)	-0.3640	11
2 (S-SB )	)	26 (S-V)	0.0368	16
2 (S-SB )	)	27 (S-W)	*****	0
2 (S-SB )	)	28 (S-Y)	0.0360	12
2 (S-SB )	)	29 (S-ZN)	0.6225	8
2 (S-SB )	)	30 (S-ZR)	-0.0029	27
2 (S-SB )	)	31 (S-TH)	*****	0
2 (S-SB )	)	32 (AA-AJ-P)	-0.1782	19
2 (S-SB )	)	33 (INST-HG)	0.2145	11
2 (S-SB )	)	34 (AA-AS-P)	0.3592	24
2 (S-SB )	)	35 (AA-ZN-P)	-0.2837	21
2 (S-SB )	)	36 (AA-SB-P)	0.8311	21
3 (S-SC )	)	24 (S-SN)	*****	1
3 (S-SC )	)	25 (S-SR)	0.2126	14
3 (S-SC )	)	26 (S-V)	0.2133	12
3 (S-SC )	)	27 (S-W)	*****	0
3 (S-SC )	)	28 (S-Y)	0.0530	15
3 (S-SC )	)	29 (S-ZN)	0.2582	3
3 (S-SC )	)	30 (S-ZR)	0.2722	18
3 (S-SC )	)	31 (S-TH)	*****	0
3 (S-SC )	)	32 (AA-AJ-P)	*****	3
3 (S-SC )	)	33 (INST-HG)	-0.3684	14
3 (S-SC )	)	34 (AA-AS-P)	-0.4934	13

00101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
3	(S-SC)	35 (AA-ZN-P)	-0.3856	15
3	(S-SC)	36 (AA-SB-P)	-0.3528	10
4	(S-SN)	25 (S-SR)	*****	1
4	(S-SN)	26 (S-V)	*****	0
4	(S-SN)	27 (S-W)	*****	0
4	(S-SN)	28 (S-Y)	*****	1
4	(S-SN)	29 (S-ZN)	*****	1
4	(S-SN)	30 (S-ZR)	-1.0000	2
4	(S-SN)	31 (S-TH)	*****	0
4	(S-SN)	32 (AA-AU-P)	-1.0000	2
4	(S-SN)	33 (INST-HG)	*****	1
4	(S-SN)	34 (AA-AS-P)	-1.0000	2
4	(S-SN)	35 (AA-ZN-P)	*****	1
4	(S-SN)	36 (AA-SB-P)	*****	1
5	(S-SR)	26 (S-V)	0.3799	15
5	(S-SR)	27 (S-W)	*****	0
5	(S-SR)	28 (S-Y)	-0.2434	17
5	(S-SR)	29 (S-ZN)	-0.9128	3
5	(S-SR)	30 (S-ZR)	0.2449	24
5	(S-SR)	31 (S-TH)	*****	0
5	(S-SR)	32 (AA-AU-P)	0.5024	9
5	(S-SR)	33 (INST-HG)	0.2359	18
5	(S-SR)	34 (AA-AS-P)	0.1168	20
5	(S-SR)	35 (AA-ZN-P)	0.1340	19
5	(S-SR)	36 (AA-SB-P)	0.4886	15
6	(S-V)	27 (S-W)	*****	0
6	(S-V)	28 (S-Y)	-0.0003	18
6	(S-V)	29 (S-ZN)	0.8306	5
6	(S-V)	30 (S-ZR)	0.1295	39
6	(S-V)	31 (S-TH)	*****	0
6	(S-V)	32 (AA-AU-P)	0.2272	18
6	(S-V)	33 (INST-HG)	0.2403	28
6	(S-V)	34 (AA-AS-P)	0.2158	33
6	(S-V)	35 (AA-ZN-P)	0.0474	33
6	(S-V)	36 (AA-SB-P)	-0.0072	32
7	(S-W)	28 (S-Y)	*****	0
7	(S-W)	29 (S-ZN)	*****	0
7	(S-W)	30 (S-ZR)	*****	0
7	(S-W)	31 (S-TH)	*****	0
7	(S-W)	32 (AA-AU-P)	*****	0
7	(S-W)	33 (INST-HG)	*****	0
7	(S-W)	34 (AA-AS-P)	*****	0
7	(S-W)	35 (AA-ZN-P)	*****	0
7	(S-W)	36 (AA-SB-P)	*****	0
8	(S-Y)	29 (S-ZN)	-0.0743	6
8	(S-Y)	30 (S-ZR)	0.1856	27
8	(S-Y)	31 (S-TH)	*****	0
8	(S-Y)	32 (AA-AU-P)	-0.1020	10
8	(S-Y)	33 (INST-HG)	0.0809	21
8	(S-Y)	34 (AA-AS-P)	-0.1090	23

00101 CORRELATION ANALYSIS - USGS STATPAC (01/15/82)

DATE 7/10/85

COLUMN	VERSUS	COLUMN	CORRELATION COEFFICIENT	NO. OF PAIRS
28 (S-Y )	)	35 (AA-ZN-P)	0.2541	23
28 (S-Y )	)	36 (AA-SB-P)	-0.2636	17
29 (S-ZN )	)	30 (S-ZR)	-0.3288	11
29 (S-ZN )	)	31 (S-TH)	*****	0
29 (S-ZN )	)	32 (AA-AU-P)	0.5171	5
29 (S-ZN )	)	33 (INST-HG)	-0.1576	8
29 (S-ZN )	)	34 (AA-AS-P)	0.5246	9
29 (S-ZN )	)	35 (AA-ZN-P)	0.7462	8
29 (S-ZN )	)	36 (AA-SB-P)	0.5556	9
30 (S-ZR )	)	31 (S-TH)	*****	0
30 (S-ZR )	)	32 (AA-AU-P)	0.2843	29
30 (S-ZR )	)	33 (INST-HG)	0.2183	38
30 (S-ZR )	)	34 (AA-AS-P)	-0.0630	49
30 (S-ZR )	)	35 (AA-ZN-P)	0.0640	47
30 (S-ZR )	)	36 (AA-SB-P)	-0.1048	43
31 (S-TH )	)	32 (AA-AU-P)	*****	0
31 (S-TH )	)	33 (INST-HG)	*****	0
31 (S-TH )	)	34 (AA-AS-P)	*****	0
31 (S-TH )	)	35 (AA-ZN-P)	*****	0
31 (S-TH )	)	36 (AA-SB-P)	*****	0
32 (AA-AU-P )	)	33 (INST-HG)	-0.1923	16
32 (AA-AU-P )	)	34 (AA-AS-P)	0.1447	29
32 (AA-AU-P )	)	35 (AA-ZN-P)	-0.1133	20
32 (AA-AU-P )	)	36 (AA-SB-P)	0.1148	24
33 (INST-HG )	)	34 (AA-AS-P)	0.5677	34
33 (INST-HG )	)	35 (AA-ZN-P)	0.4719	31
33 (INST-HG )	)	36 (AA-SB-P)	0.4469	32
34 (AA-AS-P )	)	35 (AA-ZN-P)	0.2932	40
34 (AA-AS-P )	)	36 (AA-SB-P)	0.5362	40
35 (AA-ZN-P )	)	36 (AA-SB-P)	-0.0652	36

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

TITLE	INPUT ID	N	M	***** OPTIONS ****
groom	-ds-3	61	36	1 0 0 0 2 1 0 0 0 0

VARIABLE NO. 8 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 19 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 27 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

VARIABLE NO. 31 CONTAINS NO VALID DATA POINTS. THEREFORE THIS VARIABLE WILL BE SKIPPED.

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

TITLE	INPUT ID	N	M	***** OPTIONS ****
groom	-ds-3 -	61	36	1 0 0 0 2 1 0 0 0 0

NUMBER OF SELECTED VARIABLES = 32

SELECTED VARIABLE INDICES

1	2	3	4	5	6	7	9	10	11
12	13	14	15	16	17	18	20	21	22
23	24	25	26	28	29	30	32	33	34
35	36								

SELECTED VARIABLE IDENTIFIERS

S-FE%	S-MG%	S-CA%	S-TIX	S-MN	S-AG	S-AS	S-B	S-BA	S-BF
S-BI	S-CD	S-CO	S-CR	S-CU	S-LA	S-MO	S-NI	S-PB	S-SB
S-SC	S-SN	S-SR	S-V	S-Y	S-ZN	S-ZR	AA-AU-P	INST-HS	AA-A5-P
AA-ZH-P	AA-SB-P								

SELECTED ROW PAIRS

1 TO 61

LOWER BOUNDARIES OF THE LOWEST CLASSES

-0.75000	-1.75000	-1.41700	-2.41700	0.91600	-0.41700	2.25000	0.91600	1.25000	-0.00000
0.91600	1.25000	0.58300	0.91600	0.58300	1.25000	0.58300	0.58300	0.91600	1.91600
0.58300	1.25000	1.91600	0.91600	0.91600	2.25000	0.91600	-1.41700	-1.25000	0.91600
0.58300	0.25000								

CLASS INTERVALS

0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667	0.16667
0.16667	0.16667								

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 1 (S-FEX)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	0	0	0.00	0.00		
L	0	0	0.00	0.00		
T	0	0	0.00	0.00	1.45	1.45
-7.500E-01 - -5.833E-01	1	1	1.64	1.64	1.57	0.21
-5.833E-01 - -4.167E-01	6	7	9.84	11.48	2.71	4.00
-4.167E-01 - -2.500E-01	5	12	8.20	19.67	4.18	0.16
-2.500E-01 - -8.333E-02	6	18	9.84	29.51	5.77	0.01
-8.333E-02 - 8.333E-02	7	25	11.48	40.98	7.16	0.00
8.333E-02 - 2.500E-01	4	29	6.56	47.54	7.95	1.96
2.500E-01 - 4.167E-01	7	36	11.48	59.02	7.92	0.11
4.167E-01 - 5.833E-01	10	46	15.39	75.41	7.07	1.21
5.833E-01 - 7.500E-01	7	53	11.48	86.89	5.66	0.32
7.500E-01 - 9.167E-01	1	54	1.64	88.52	4.06	2.31
9.167E-01 - 1.083E+00	3	57	4.92	93.44	2.61	0.06
1.083E+00 - 1.250E+00	3	60	4.92	98.36	2.88	0.01
G	1	61	1.64	100.00	1.45	0.14
H	0	61				
B	0	61				
TOTALS LESS H AND B		61				

HISTOGRAM FOR VARIABLE 1 (S-FEX)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E-01 XX
3.162E-01 XXXXXXXXXXXX
4.642E-01 XXXXXXXXX
6.813E-01 XXXXXXXXXXXX
1.000E+00 XXXXXXXXXXXX
1.468E+00 XXXXXXXX
2.154E+00 XXXXXXXXXXXX
3.162E+00 XXXXXXXXXXXXXXXX
4.642E+00 XXXXXXXXXXXX
6.813E+00 XX
1.000E+01 XXXXX
1.468E+01 XXXXX
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E-01
MAXIMUM ANTILOG = 1.50000E+01
GEOMETRIC MEAN = 1.68385E+00
GEOMETRIC DEVIATION = 3.06641E+00
VARIANCE OF LOGS = 2.36809E-01
    
```

PERCENT TABLE FOR VARIABLE 1 (S-FEX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION.

THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	9.666701E-01	9.261260E+00
95.00	1.136115E+00	1.358091E+01
98.00	1.237782E+00	1.728947E+01

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

groom

FREQUENCY TABLE FOR VARIABLE 2 (S-MG%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THFOR FRFQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FRFQ
N	1	1	1.64	1.64		
L	12	13	19.67	21.31		
T	0	13	0.00	21.31	13.85	13.85
-1.750E+00 - -1.583E+00	13	26	21.31	42.62	5.35	10.94
-1.583E+00 - -1.417E+00	12	38	19.67	52.30	6.08	5.77
-1.417E+00 - -1.250E+00	8	46	13.11	75.41	6.44	0.38
-1.250E+00 - -1.083E+00	2	48	3.28	78.69	6.35	2.98
-1.083E+00 - -9.167E-01	3	51	4.92	83.61	5.84	1.38
-9.167E-01 - -7.500E-01	1	52	1.64	85.25	5.01	3.21
-7.500E-01 - -5.833E-01	0	52	0.00	85.25	4.00	4.00
-5.833E-01 - -4.167E-01	1	53	1.64	86.89	2.98	1.31
-4.167E-01 - -2.500E-01	0	53	0.00	86.89	2.07	2.07
-2.500E-01 - -8.333E-02	0	53	0.00	86.89	1.34	1.34
-8.333E-02 - 8.334E-02	4	57	6.56	93.44	0.81	12.65
8.334E-02 - 2.500E-01	2	59	3.28	96.72	0.45	5.28
2.500E-01 - 4.167E-01	1	60	1.64	98.36	0.24	2.45
4.167E-01 - 5.833E-01	0	60	0.00	98.36	0.12	0.12
5.833E-01 - 7.500E-01	1	61	1.64	100.00	0.09	9.37
G	0	61	0.00	100.00	0.00	0.00
H	0	61				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 2 (S-MG%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E-02 XXXXXXXXXXXXXXXXXXXX
3.162E-02 XXXXXXXXXXXXXXXXXXXX
4.642E-02 XXXXXXXXXXXXXXXX
6.813E-02 XXX
1.000E-01 XXXXX
1.468E-01 XX
2.154E-01
3.162E-01 XX
4.642E-01
6.813E-01
1.000E+00 XXXXXXX
1.468E+00 XXX
2.154E+00 XX
3.162E+00
4.642E+00 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E-02
MAXIMUM ANTILOG = 5.00000E+03
GEOMETRIC MEAN = 6.78824E-02

GEOMETRIC DEVIATION = 4.60111E+00
VARIANCE OF LOGS = 4.39387E-01

PERCENT TABLE FOR VARIABLE 2 (S-MG%) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-1.791636E-01	6.619672E-01
95.00	1.625038E-01	1.453797E+00
98.00	3.800042E-01	2.398356E+00

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

3 ROOM

FREQUENCY TABLE FOR VARIABLE 3 (S-CA%)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	11	11	18.03	18.03		
L	16	27	26.23	44.26		
T	0	27	0.00	44.26	12.73	12.73
-1.417E+00 - -1.250E+00	8	35	13.11	57.38	4.16	3.56
-1.250E+00 - -1.084E+00	1	36	1.64	59.02	4.73	2.94
-1.084E+00 - -9.170E-01	4	40	6.56	65.57	5.13	0.25
-9.170E-01 - -7.503E-01	2	42	3.28	68.85	5.30	2.06
-7.503E-01 - -5.837E-01	2	44	3.28	72.13	5.23	2.00
-5.837E-01 - -4.170E-01	3	47	4.92	77.05	4.92	0.75
-4.170E-01 - -2.503E-01	0	47	0.00	77.05	4.41	4.41
-2.503E-01 - -8.366E-02	0	47	0.00	77.05	3.77	3.77
-8.366E-02 - 8.300E-02	4	51	6.56	83.61	3.07	0.28
8.300E-02 - 2.497E-01	2	53	3.28	86.89	2.39	0.06
2.497E-01 - 4.163E-01	2	55	3.28	90.16	1.77	0.03
4.163E-01 - 5.830E-01	1	56	1.64	91.80	1.25	0.05
5.830E-01 - 7.497E-01	1	57	1.64	93.44	0.84	0.03
7.497E-01 - 9.163E-01	1	58	1.64	95.08	0.54	0.39
9.163E-01 - 1.083E+00	1	59	1.64	96.72	0.75	0.09
G	2	61	3.28	100.00	0.00	0.00
H	0	61				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 3 (S-CA%)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E-02 XXXXXXXXXXXXX
6.808E-02 XX
9.992E-02 XXXXXXXX
1.467E-01 XXX
2.153E-01 XXX
3.160E-01 XXXXX
4.638E-01
6.808E-01
9.992E-01 XXXXXXXX
1.467E+00 XXX
2.153E+00 XXX
3.160E+00 XX
4.638E+00 XX
6.808E+00 XX
9.992E+00 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E-02
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 3.11662E-01

```

GEOMETRIC DEVIATION = 5.74501E-02

GEOMETRIC MEAN = 3.71662E-01

GEOMETRIC DEVIATION = 5.36501E+00
VARIANCE OF LOGS = 5.32273E-01

PERCENT TABLE FOR VARIABLE 3 (S-CAZ) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	4.080036E-01	2.558607E+00
95.00	9.080046E-01	8.091045E+00
98.00	1.000000E+35	1.000000E+35

00036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

3 ROOM

FREQUENCY TABLE FOR VARIABLE 4 (S-TIX)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	0	0	0.00	0.00		
	L	0	0	0.00	0.00		
	T	0	0	0.00	0.00	0.49	0.49
-2.417E+00	-2.250E+00	1	1	1.64	1.64	0.78	0.06
-2.250E+00	-2.084E+00	0	1	0.00	1.64	1.66	1.66
-2.084E+00	-1.917E+00	2	3	3.28	4.92	3.07	0.37
-1.917E+00	-1.750E+00	7	10	11.48	16.39	4.94	0.86
-1.750E+00	-1.584E+00	10	20	16.39	32.79	6.93	1.36
-1.584E+00	-1.417E+00	5	25	8.20	40.98	8.47	1.42
-1.417E+00	-1.250E+00	15	41	25.23	67.21	9.03	5.39
-1.250E+00	-1.084E+00	10	51	16.39	83.61	8.38	0.31
-1.084E+00	-0.917E-01	2	53	3.28	86.89	6.78	3.77
-0.917E-01	-0.750E-01	1	54	1.64	88.52	4.78	2.99
-0.750E-01	-0.583E-01	2	56	3.28	91.80	2.94	0.30
-0.583E-01	-0.417E-01	0	56	0.00	91.80	1.57	1.57
-0.417E-01	-0.250E-01	5	61	8.20	100.00	1.18	12.35
	G	0	61	0.00	100.00	0.49	0.49
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 4 (S-TIX)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E-03 XX
6.808E-03
9.992E-03 XXX
1.467E-02 XXXXXXXXXXXX
2.153E-02 XXXXXXXXXXXXXXXX
3.160E-02 XXXXXXXX
4.638E-02 XXXXXXXXXXXXXXXXXXXXXXXX
6.808E-02 XXXXXXXXXXXXXXXX
9.992E-02 XXX
1.467E-01 XX
2.153E-01 XXX
3.160E-01
4.638E-01 XXXXXXXX
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E-03
MAXIMUM ANTILOG = 5.00000E-01
GEOMETRIC MEAN = 4.56657E-02
GEOMETRIC DEVIATION = 2.79716E+00
VARIANCE OF LOGS = 1.99556E-01
    
```

PERCENT TABLE FOR VARIABLE 4 (S-TIX) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	-6.753299E-01	2.111884E-01
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

3room

FREQUENCY TABLE FOR VARIABLE 5 (S-MM)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	0	0	0.00	0.00		
	L	1	1	1.64	1.64		
	T	0	1	0.00	1.64	4.26	4.26
9.160E-C1	- 1.083E+00	5	6	9.20	9.84	1.95	4.75
1.083E+00	- 1.249E+00	6	12	9.84	19.67	2.53	4.74
1.249E+00	- 1.416E+00	5	17	8.20	27.87	3.15	1.08
1.416E+00	- 1.583E+00	3	20	4.92	32.79	3.76	0.15
1.583E+00	- 1.749E+00	4	24	6.56	39.34	4.70	0.02
1.749E+00	- 1.916E+00	4	28	6.56	45.90	4.72	0.11
1.916E+00	- 2.083E+00	2	30	3.28	49.18	4.95	1.76
2.083E+00	- 2.249E+00	1	31	1.64	50.82	4.99	3.19
2.249E+00	- 2.416E+00	5	36	8.20	59.02	4.92	0.01
2.416E+00	- 2.583E+00	7	43	11.48	70.49	4.46	1.44
2.583E+00	- 2.749E+00	6	49	9.84	80.33	3.96	1.05
2.749E+00	- 2.916E+00	3	52	4.92	85.25	3.37	0.04
2.916E+00	- 3.083E+00	2	54	3.28	88.52	2.75	0.20
3.083E+00	- 3.249E+00	0	54	0.00	88.52	2.15	2.15
3.249E+00	- 3.416E+00	2	56	3.28	91.80	1.61	0.10
3.416E+00	- 3.583E+00	1	57	1.64	93.44	1.16	0.02
3.583E+00	- 3.749E+00	4	61	6.56	100.00	2.11	1.70
	G	0	61	0.00	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 5 (S-MM) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXX
1.466E+C1 XXXXXXXXXXXX
2.151E+C1 XXXXXXXXX
3.157E+01 XXXXX
4.634E+C1 XXXXXXXX
6.802E+01 XXXXXXXX
9.985E+01 XXX
1.466E+02 XX
2.151E+02 XXXXXXXXX
3.157E+02 XXXXXXXXXXXX
4.635E+02 XXXXXXXXXXXX
6.803E+02 XXXXX
9.985E+02 XXX
1.466E+C3
2.151E+03 XXX
3.157E+03 XX
4.635E+03 XXXXXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 5.00000E+03
 GEOMETRIC MEAN = 1.34868E+02
 GEOMETRIC DEVIATION = 6.35375E+00
 VARIANCE OF LOGS = 6.44858E-01

PERCENT TABLE FOR VARIABLE 5 (S-MN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.232671E+00	1.709721E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

95.00	1.914613E+00	8.215105E+01
98.00	2.064336E+00	1.159673E+02

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FREQUENCY TABLE FOR VARIABLE 6 (S-AG)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	22	22	36.07	36.07		
L	2	24	3.28	39.34		
T	0	24	0.00	39.34	10.00	10.00
-4.170E-01 - -2.503E-01	1	25	1.64	40.98	2.58	0.96
-2.503E-01 - -8.367E-02	1	26	1.64	42.62	2.93	1.27
-8.367E-02 - 8.300E-02	3	29	4.92	47.54	3.26	0.02
8.300E-02 - 2.497E-01	5	34	8.20	55.74	3.53	0.62
2.497E-01 - 4.163E-01	3	37	4.92	60.66	3.72	0.14
4.163E-01 - 5.830E-01	1	38	1.64	62.30	3.83	2.10
5.830E-01 - 7.497E-01	0	38	0.00	62.30	3.85	3.85
7.497E-01 - 9.163E-01	2	40	3.28	65.57	3.77	0.83
9.163E-01 - 1.083E+00	1	41	1.64	67.21	3.60	1.88
1.083E+00 - 1.250E+00	1	42	1.64	68.85	3.55	1.65
1.250E+00 - 1.416E+00	2	44	3.28	72.13	3.05	0.36
1.416E+00 - 1.583E+00	0	44	0.00	72.13	2.70	2.70
1.583E+00 - 1.750E+00	2	46	3.28	75.41	2.33	0.05
1.750E+00 - 1.916E+00	3	49	4.92	80.33	1.96	0.55
1.916E+00 - 2.083E+00	4	53	6.56	86.89	1.61	3.53
2.083E+00 - 2.250E+00	2	55	3.28	90.16	1.29	0.39
2.250E+00 - 2.416E+00	3	58	4.92	95.08	1.01	3.93
2.416E+00 - 2.583E+00	1	59	1.64	96.72	0.77	0.07
2.583E+00 - 2.750E+00	1	60	1.64	98.36	0.57	0.32
2.750E+00 - 2.916E+00	1	61	1.64	100.00	1.27	0.06
G	0	61	0.00	100.00	0.00	0.00
H	0	61				
E	0	61				

TOTALS LESS H AND G 61

HISTOGRAM FOR VARIABLE 6 (S-AG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

4.638E-01 XX
6.808E-01 XX
9.992E-01 XXXXX
1.467E+00 XXXXXXXXX
2.153E+00 XXXXX
3.160E+00 XX
4.638E+00
6.808E+00 XXX
9.992E+00 XX
1.467E+01 XX
2.153E+01 XXX
3.160E+01
4.638E+01 XXX
6.808E+01 XXXXX
9.992E+01 XXXXXXXX
1.467E+02 XXX
2.153E+02 XXXXX
3.160E+02 XX

4.638E+02 XX
6.808E+02 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E-01
MAXIMUM ANTILOG = 7.00000E+02
GEOMETRIC MEAN = 1.59308E+01
GEOMETRIC DEVIATION = 9.17059E+00
VARIANCE OF LOGS = 9.26200E-01

PERCENT TABLE FOR VARIABLE 6 (S-AG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.241339E+00	1.743166E+02
95.00	2.413551E+00	2.591560E+02
98.00	2.713006E+00	5.164738E+02

98.00 2.064336E+00 1.159673E+02

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FREQUENCY TABLE FOR VARIABLE 7 (S-AS)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	27	27	44.26	44.26		
L	9	36	14.75	59.02		
T	0	36	0.00	59.02	14.09	14.09
2.250E+00 - 2.417E+00	8	44	13.11	72.13	15.46	3.60
2.417E+00 - 2.583E+00	5	49	8.20	80.33	15.87	7.45
2.583E+00 - 2.750E+00	5	54	8.20	88.52	10.22	2.67
2.750E+00 - 2.917E+00	4	58	6.56	95.08	4.13	0.00
2.917E+00 - 3.083E+00	1	59	1.64	96.72	1.04	0.00
3.083E+00 - 3.250E+00	1	60	1.64	98.36	0.17	4.21
3.250E+00 - 3.417E+00	1	61	1.64	100.00	0.00	55.41
G	C	61	0.00	100.00	0.00	0.00
H	0	51				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 7 (S-AS)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+02 XXXXXXXXXXXXXXXX
3.162E+02 XXXXXXXXX
4.642E+02 XXXXXXXXX
6.913E+02 XXXXXXXXX
1.000E+03 XX
1.468E+03 XX
2.154E+03 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+02
MAXIMUM ANTILOG = 2.00000E+03
GEOMETRIC MEAN = 4.03505E+02
GEOMETRIC DEVIATION = 1.96398E+00
VARIANCE OF LOGS = 8.59287E-02

```

PERCENT TABLE FOR VARIABLE 7 (S-AS) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.787501E+00	6.130573E+02
95.00	2.914585E+00	8.214567E+02
98.00	3.213335E+00	1.634313E+03

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FREQUENCY TABLE FOR VARIABLE 9 (S-B)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	5	5	8.20	8.20		
L	6	11	9.84	18.03		
T	0	11	0.00	18.03	5.50	5.50
9.160E-01 - 1.083E+00	5	16	8.20	25.23	6.92	0.53
1.083E+00 - 1.249E+00	14	30	22.95	49.18	10.48	1.18
1.249E+00 - 1.416E+00	7	37	11.48	60.66	12.28	2.27
1.416E+00 - 1.583E+00	8	45	13.11	73.77	11.15	0.89
1.583E+00 - 1.749E+00	7	52	11.48	85.25	7.84	0.09
1.749E+00 - 1.916E+00	6	58	9.84	95.08	4.27	0.70
1.916E+00 - 2.083E+00	2	60	3.28	98.36	1.80	0.02
2.083E+00 - 2.249E+00	1	61	1.64	100.00	0.77	0.07
G	0	61	0.00	100.00	0.00	0.00
H	0	61				
B	0	61				

TOTALS LESS H AND R 61

HISTOGRAM FOR VARIABLE 9 (S-B)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXX
1.466E+01 XXXXXXXXXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXXXXXXX
3.157E+01 XXXXXXXXXXXXXXXX
4.634E+01 XXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXX
9.985E+01 XXX
1.466E+02 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 2.69512E+01
GEOMETRIC DEVIATION = 2.04159E+00
VARIANCE OF LOGS = 9.60808E-02

```

PERCENT TABLE FOR VARIABLE 9 (S-B) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.829891E+00	6.759129E+01
95.00	1.914613E+00	8.215105E+01
98.00	2.064336E+00	1.159673E+02

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FREQUENCY TABLE FOR VARIABLE 10 (S-BA)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	
N		0	0	0.00	0.00		
L		1	1	1.64	1.64		
T		0	1	0.00	1.64	1.46	1.46
1.250E+00	1.417E+00	2	3	3.28	4.92	1.34	0.32
1.417E+00	1.583E+00	1	4	1.64	6.56	2.19	0.65
1.583E+00	1.750E+00	3	7	4.92	11.48	3.29	0.02
1.750E+00	1.917E+00	5	12	8.20	19.67	4.52	0.05
1.917E+00	2.083E+00	8	20	13.11	32.79	5.72	0.91
2.083E+00	2.250E+00	5	25	8.20	40.98	6.64	0.41
2.250E+00	2.417E+00	11	36	18.03	59.02	7.08	2.17
2.417E+00	2.583E+00	7	43	11.48	70.49	6.94	0.00
2.583E+00	2.750E+00	3	46	4.92	75.41	6.24	1.68
2.750E+00	2.917E+00	3	49	4.92	80.33	5.15	0.90
2.917E+00	3.083E+00	3	52	4.92	85.25	3.91	0.21
3.083E+00	3.250E+00	5	57	8.20	93.44	2.77	1.91
3.250E+00	3.417E+00	1	58	1.64	95.08	1.74	0.32
3.417E+00	3.583E+00	1	59	1.64	96.72	1.02	0.00
3.583E+00	3.750E+00	1	60	1.64	98.36	1.03	0.00
G		1	61	1.64	100.00	0.00	0.00
H		0	61				
B		0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 10 (S-BA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+01 xxx
3.162E+01 xx
4.642E+01 xxxxx
6.813E+01 xxxxxxxx
1.000E+02 xxxxxxxxxxxxxx
1.468E+02 xxxxxxxxx
2.154E+02 xxxxxxxxxxxxxxxxxxxx
3.162E+02 xxxxxxxxxxxxxx
4.642E+02 xxxxxx
6.813E+02 xxxxxx
1.000E+03 xxxxxx
1.468E+03 xxxxxxxxx
2.154E+03 xx
3.162E+03 xx
4.642E+03 xx

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 5.00000E+03
GEOMETRIC MEAN = 2.35275E+02

```

MEAN = 2.0000E+03
GEOMETRIC MEAN = 2.3527E+02

GEOMETRIC DEVIATION = 3.41825E+00
VARIANCE OF LOGS = 2.84947E-01

PERCENT TABLE FOR VARIABLE 10 (S-3A) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.180004E+00	1.513575E+03
95.00	3.408338E+00	2.560576E+03
98.00	3.713338E+00	5.158187E+03

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FREQUENCY TABLE FOR VARIABLE 11 (S-BE)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	16	16	26.23	26.23		
	L	22	38	36.07	62.30		
	T	0	38	0.00	62.30	9.72	9.72
-8.400E-02	8.267E-02	15	53	24.59	86.89	28.30	6.25
8.267E-02	2.493E-01	3	56	4.92	91.80	19.81	14.26
2.493E-01	4.160E-01	3	59	4.92	96.72	3.07	0.00
4.160E-01	5.827E-01	1	60	1.64	98.36	0.10	8.03
5.827E-01	7.493E-01	1	61	1.64	100.00	0.00	1512.31
	G	0	61	0.00	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 11 (S-RE)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E-01 XXXXXXXXXXXXXXXXXXXXXXXX
1.466E+00 XXXXX
2.151E+00 XXXXX
3.157E+00 XX
4.634E+00 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+00
MAXIMUM ANTILOG = 5.00000E+00
GEOMETRIC MEAN = 1.29828E+00
GEOMETRIC DEVIATION = 1.54509E+00
VARIANCE OF LOGS = 3.57038E-02

```

PERCENT TABLE FOR VARIABLE 11 (S-RE) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.882228E-01	1.542491E+00
95.00	3.576675E-01	2.278597E+00
98.00	5.460013E-01	3.515615E+00

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FREQUENCY TABLE FOR VARIABLE 12 (S-BI)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	52	52	85.25	85.25		
	L	1	53	1.64	86.89		
	T	0	53	0.00	86.89	9.81	9.81
9.160E-01	- 1.083E+00	2	55	3.28	90.16	30.67	26.21
1.083E+00	- 1.249E+00	3	58	4.92	95.08	18.50	12.98
1.249E+00	- 1.416E+00	1	59	1.64	96.72	1.99	0.49
1.416E+00	- 1.583E+00	1	60	1.64	98.36	0.00	0.00
1.583E+00	- 1.749E+00	1	61	1.64	100.00	0.04	26.42
	G	0	61	0.00	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 12 (S-BI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

9.985E+00 XXX
 1.466E+01 XXXXX
 2.151E+01 XX
 3.157E+01 XX
 4.634E+01 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
 MAXIMUM ANTILOG = 5.00000E+01
 GEOMETRIC MEAN = 1.78104E+01
 GEOMETRIC DEVIATION = 1.73058E+00
 VARIANCE OF LOGS = 5.67352E-02

PERCENT TABLE FOR VARIABLE 12 (S-BI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.00000E+35	1.00000E+35
95.00	1.246556E+00	1.754234E+01
98.00	1.546031E+00	3.515615E+01

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FREQUENCY TABLE FOR VARIABLE 13 (S-CD)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	54	54	28.52	38.52		
	L	3	57	4.92	93.44		
	T	0	57	0.00	93.44	21.09	21.09
1.250E+00	- 1.417E+00	1	58	1.64	95.08	15.81	13.87
1.417E+00	- 1.583E+00	1	59	1.64	96.72	13.33	11.41
1.583E+00	- 1.750E+00	0	59	0.00	96.72	7.37	7.37
1.750E+00	- 1.917E+00	0	59	0.00	96.72	2.66	2.66
1.917E+00	- 2.083E+00	0	59	0.00	96.72	0.63	0.63
2.083E+00	- 2.250E+00	0	59	0.00	96.72	0.10	0.10
2.250E+00	- 2.417E+00	0	59	0.00	96.72	0.01	0.01
2.417E+00	- 2.583E+00	0	59	0.00	96.72	0.00	0.00
2.583E+00	- 2.750E+00	1	60	1.64	98.36	0.00	1479.68
	G	1	61	1.64	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 13 (S-CD)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

- 2.154E+01 XX
- 3.162E+01 XX
- 4.642E+01
- 6.813E+01
- 1.000E+02
- 1.468E+02
- 2.154E+02
- 3.162E+02
- 4.642E+02 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

- MINIMUM ANTILOG = 2.00000E+01
- MAXIMUM ANTILOG = 5.00000E+02
- GEOMETRIC MEAN = 6.69433E+01
- GEOMETRIC DEVIATION = 5.77266E+00
- VARIANCE OF LOGS = 5.79693E-01

PERCENT TABLE FOR VARIABLE 13 (S-CD) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35

79.00

1.000000E+35

1.000000E+35

95.00
98.00

1.000000E+35
2.493336E+00

1.000000E+35
3.114123E+02

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FREQUENCY TABLE FOR VARIABLE 14 (S-CO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	25	25	40.98	40.98		
L	12	37	19.67	60.66		
T	0	37	0.00	60.66	14.44	14.44
5.830E-01 - 7.497E-01	10	47	16.39	77.05	11.11	0.11
7.497E-01 - 9.163E-01	8	55	13.11	90.16	12.31	1.51
9.163E-01 - 1.083E+00	1	56	1.64	91.80	10.55	8.65
1.083E+00 - 1.250E+00	0	56	0.00	91.80	7.00	7.00
1.250E+00 - 1.416E+00	1	57	1.64	93.44	3.59	1.87
1.416E+00 - 1.583E+00	0	57	0.00	93.44	1.42	1.42
1.583E+00 - 1.750E+00	1	58	1.64	95.08	0.44	0.73
1.750E+00 - 1.916E+00	0	58	0.00	95.08	0.10	0.10
1.916E+00 - 2.083E+00	2	60	3.28	98.36	0.02	206.76
2.083E+00 - 2.250E+00	1	61	1.64	100.00	0.00	329.22
G	0	61	0.00	100.00	0.00	0.00
H	0	61				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 14 (S-CO)
MINPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXXXXXXXXXXXXXX
6.808E+00 XXXXXXXXXXXXXXXX
9.992E+00 XX
1.467E+01
2.153E+01 XX
3.160E+01
4.638E+01 XX
6.808E+01
9.992E+01 XXX
1.467E+02 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 1.50000E+02
GEOMETRIC MEAN = 9.92980E+00
GEOMETRIC DEVIATION = 2.94480E+00
VARIANCE OF LOGS = 2.20017E-01

```

PERCENT TABLE FOR VARIABLE 14 (S-CO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

```

SELECTED DATA VALUE ANTI LOG OF VALUE
PERCENTILE

```

90.00
95.00
98.00

9.142507E-01
1.733002E+00
2.046336E+00

8.208252E+00
5.407572E+01
1.112593E+02

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FREQUENCY TABLE FOR VARIABLE 15 (S-CR)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	16	16	26.23	26.23		
	L	18	34	29.51	55.74		
	T	0	34	0.00	55.74	7.90	7.90
9.160E-01	1.083E+00	12	46	19.67	75.41	24.40	6.30
1.083E+00	1.249E+00	5	51	8.20	83.61	22.55	13.66
1.249E+00	1.416E+00	7	58	11.48	95.08	5.75	0.27
1.416E+00	1.583E+00	3	61	4.92	100.00	0.40	16.81
	G	C	61	0.00	100.00	0.00	0.00
	H	C	61				
	B	C	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 15 (S-CR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXXX
2.151E+01 XXXXXXXXXXXXX
3.157E+01 XXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 3.00000E+01
GEOMETRIC MEAN = 1.45770E+01
GEOMETRIC DEVIATION = 1.47820E+00
VARIANCE OF LOGS = 2.88090E-02

```

PERCENT TABLE FOR VARIABLE 15 (S-CR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.342191E+00	2.198288E+01
95.00	1.414811E+00	2.599025E+01
98.00	1.000000E+03	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 16 (S-CU)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	3	3	4.92	4.92		
	L	3	6	4.92	9.84		
	T	0	6	0.00	9.84	7.05	7.05
5.830E-01	- 7.497E-C1	4	10	6.56	16.39	2.03	1.91
7.497E-01	- 9.163E-C1	6	16	9.84	26.23	2.39	5.47
9.163E-01	- 1.083E+00	5	21	8.20	34.43	2.74	1.87
1.083E+00	- 1.250E+00	4	25	6.56	40.98	3.07	0.28
1.250E+00	- 1.416E+00	6	31	9.84	50.82	3.35	2.09
1.416E+00	- 1.583E+00	1	32	1.64	52.46	3.58	1.86
1.583E+00	- 1.750E+00	1	33	1.64	54.10	3.73	2.00
1.750E+00	- 1.916E+00	0	33	0.00	54.10	3.79	3.79
1.916E+00	- 2.083E+00	2	35	3.28	57.38	3.76	0.82
2.083E+00	- 2.250E+00	1	36	1.64	59.02	3.64	1.92
2.250E+00	- 2.416E+00	5	41	8.20	57.21	3.44	0.71
2.416E+00	- 2.583E+00	3	44	4.92	72.13	3.18	0.01
2.583E+00	- 2.750E+00	3	47	4.92	77.05	2.86	0.01
2.750E+00	- 2.916E+00	3	50	4.92	81.97	2.51	0.09
2.916E+00	- 3.083E+00	2	52	3.28	85.25	2.15	0.01
3.083E+00	- 3.250E+00	0	52	0.00	85.25	1.80	1.80
3.250E+00	- 3.416E+00	3	55	4.92	90.16	1.47	1.58
3.416E+00	- 3.583E+00	3	58	4.92	95.08	1.18	2.83
3.583E+00	- 3.750E+00	0	58	0.00	95.08	0.91	0.91
3.750E+00	- 3.916E+00	0	58	0.00	95.08	0.69	0.69
3.916E+00	- 4.083E+00	0	58	0.00	95.08	0.52	0.52
4.083E+00	- 4.250E+00	1	59	1.64	96.72	1.15	0.02
	G	2	61	3.28	100.00	0.00	0.00
	H	0	61				
	R	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 15 (S-CU) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 xxxxxxxx
6.808E+00 xxxxxxxxxxxx
9.992E+00 xxxxxxxxxxxx
1.467E+01 xxxxxxxx
2.153E+01 xxxxxxxxxxxx
3.160E+01 xx
4.638E+01 xx
6.808E+01
9.992E+01 xxx
1.467E+02 xx
2.153E+02 xxxxxxxx
3.160E+02 xxxxx
4.638E+02 xxxxx
6.808E+02 xxxxx
9.992E+02 xxx
1.467E+03

```

2.153E+03 XXXXX
 3.163E+03 XXXXX
 4.638E+03
 6.808E+03
 9.992E+03
 1.467E+04 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 1.50000E+04
 GEOMETRIC MEAN = 7.98080E+01
 GEOMETRIC DEVIATION = 9.22282E+00
 VARIANCE OF LOGS = 9.30962E-01

PERCENT TABLE FOR VARIABLE 16 (S-CU) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.405228E+00	2.542306E+03
95.00	3.580228E+00	3.833892E+03
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 17 (S-LA)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	4	4	6.56	6.56		
	L	13	17	21.31	27.87		
	T	C	17	0.00	27.87	7.78	7.78
1.250E+00	- 1.417E+00	17	34	27.87	55.74	24.23	2.16
1.417E+00	- 1.583E+00	19	53	31.15	86.89	22.68	0.60
1.583E+00	- 1.750E+00	8	61	13.11	100.00	6.31	0.45
	G	0	61	0.00	100.00	0.00	0.00
	H	C	61				
	B	C	51				
TOTALS LESS H AND B		61					

HISTOGRAM FOR VARIABLE 17 (S-LA)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.162E+01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
4.642E+01 XXXXXXXXXXXXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+01
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 2.81464E+01
GEOMETRIC DEVIATION = 1.39198E+00
VARIANCE OF LOGS = 2.06305E-02

```

PERCENT TABLE FOR VARIABLE 17 (S-LA) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 18 (S-MO)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	32	32	52.46	52.46		
L	5	37	8.20	60.66		
T	0	37	0.00	60.66	12.44	12.44
5.830E-01 - 7.497E-01	5	42	8.20	68.85	9.50	2.13
7.497E-01 - 9.163E-01	2	44	3.28	72.13	11.21	7.56
9.163E-01 - 1.083E+00	8	52	13.11	85.25	10.66	0.66
1.083E+00 - 1.250E+00	2	54	3.28	88.52	8.17	4.66
1.250E+00 - 1.416E+00	1	55	1.64	90.16	5.05	3.25
1.416E+00 - 1.583E+00	2	57	3.28	93.44	2.52	0.11
1.583E+00 - 1.750E+00	2	59	3.28	96.72	1.01	0.96
1.750E+00 - 1.916E+00	0	59	0.00	96.72	0.33	0.33
1.916E+00 - 2.083E+00	0	59	0.00	96.72	0.09	0.09
2.083E+00 - 2.250E+00	1	60	1.64	98.36	0.02	53.50
2.250E+00 - 2.416E+00	1	61	1.64	100.00	0.00	281.62
G	0	61	0.00	100.00	0.00	0.00
H	0	61				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 18 (S-MO)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXXXXXX
6.808E+00 XXX
9.992E+00 XXXXXXXXXXXXX
1.467E+01 XXX
2.153E+01 XX
3.160E+01 XXX
4.638E+01 XXX
6.808E+01
9.992E+01
1.467E+02 XX
2.153E+02 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+02
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 1.42172E+01
GEOMETRIC DEVIATION = 2.80024E+00
VARIANCE OF LOGS = 2.00067E-01

```

PERCENT TABLE FOR VARIABLE 18 (S-MO) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.399658E+00	2.509969E+01
95.00	1.662169E+00	4.593765E+01
98.00	2.139670E+00	1.379335E+02

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FREQUENCY TABLE FOR VARIABLE 20 (S-NI)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
N		9	9	14.75	14.75		
L		13	22	21.31	36.07		
T		0	22	0.00	36.07	10.46	10.46
5.830E-01	7.497E-01	11	33	18.03	54.10	8.82	0.54
7.497E-01	9.163E-01	8	41	13.11	67.21	11.00	0.82
9.163E-01	1.083E+00	7	48	11.48	78.69	11.05	1.48
1.083E+00	1.250E+00	4	52	6.56	85.25	8.93	2.72
1.250E+00	1.416E+00	4	56	6.56	91.80	5.81	0.57
1.416E+00	1.583E+00	1	57	1.64	93.44	3.05	1.38
1.583E+00	1.750E+00	2	59	3.28	96.72	1.29	0.40
1.750E+00	1.916E+00	0	59	0.00	96.72	0.44	0.44
1.916E+00	2.083E+00	0	59	0.00	96.72	0.12	0.12
2.083E+00	2.250E+00	1	60	1.64	98.36	0.03	36.00
2.250E+00	2.416E+00	1	61	1.64	100.00	0.01	182.58
G		0	61	0.00	100.00	0.00	0.00
H		0	61				
B		0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 20 (S-NI)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXXXXXXXXXXXXXXXXXX
6.808E+00 XXXXXXXXXXXXXXXX
9.992E+00 XXXXXXXXXXXX
1.467E+01 XXXXXXXX
2.153E+01 XXXXXXXX
3.160E+01 XX
4.638E+01 XXX
6.808E+01
9.992E+01
1.467E+02 XX
2.153E+02 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 2.00000E+02
GEOMETRIC MEAN = 1.10624E+01
GEOMETRIC DEVIATION = 2.47392E+00
VARIANCE OF LOGS = 1.54761E-01

```

PERCENT TABLE FOR VARIABLE 20 (S-NI) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED
PERCENTILE

DATA VALUE

ANTI LOG OF VALUE

90.00

1.370532E+00

2.345938E+01

95.00

1.662149E+00

4.593765E+01

98.00

2.139670E+00

1.379335E+02

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FREQUENCY TABLE FOR VARIABLE 21 (S-PB)

LOG LIMITS		CPS	CUM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CUM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N		1	1	1.64	1.64		
L		6	7	9.84	11.48		
T		0	7	0.00	11.48	7.02	7.02
9.160E-01	- 1.083E+00	4	11	6.56	18.03	1.73	3.00
1.083E+00	- 1.249E+00	3	14	4.92	22.95	1.99	0.51
1.249E+00	- 1.416E+00	5	19	8.20	31.15	2.26	3.34
1.416E+00	- 1.583E+00	4	23	6.56	37.70	2.51	0.88
1.583E+00	- 1.749E+00	4	27	6.56	44.26	2.75	0.57
1.749E+00	- 1.916E+00	3	30	4.92	49.18	2.95	0.00
1.916E+00	- 2.083E+00	1	31	1.64	50.82	3.11	1.43
2.083E+00	- 2.249E+00	1	32	1.64	52.46	3.22	1.53
2.249E+00	- 2.416E+00	3	35	4.92	57.38	3.27	0.02
2.416E+00	- 2.583E+00	1	36	1.64	59.02	3.26	1.57
2.583E+00	- 2.749E+00	2	38	3.28	62.30	3.20	0.45
2.749E+00	- 2.916E+00	1	39	1.64	63.93	3.08	1.41
2.916E+00	- 3.083E+00	1	40	1.64	65.57	2.91	1.26
3.083E+00	- 3.249E+00	1	41	1.64	67.21	2.71	1.38
3.249E+00	- 3.416E+00	3	44	4.92	72.13	2.47	0.11
3.416E+00	- 3.583E+00	2	47	4.92	77.05	2.21	0.28
3.583E+00	- 3.749E+00	0	47	0.00	77.05	1.94	1.94
3.749E+00	- 3.916E+00	1	48	1.64	78.69	1.68	0.28
3.916E+00	- 4.083E+00	2	50	3.28	81.97	1.42	0.23
4.083E+00	- 4.249E+00	2	52	3.28	85.25	1.19	0.56
4.249E+00	- 4.416E+00	1	53	1.64	86.89	4.13	2.37
G		8	61	13.11	100.00	0.00	0.00
H		0	61				
B		0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 21 (S-PB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXX
1.466E+01 XXXXX
2.151E+01 XXXXXXXXX
3.157E+01 XXXXXXXX
4.634E+01 XXXXXXXX
6.802E+01 XXXXX
9.985E+01 XX
1.466E+02 XX
2.151E+02 XXXXX
3.157E+02 XX
4.635E+02 XXX
6.803E+02 XX
9.985E+02 XX
1.466E+03 XX
2.151E+03 XXXXX
3.157E+03 XXXXX
4.635E+03

```

6.803E+03 XX
9.985E+03 XXX
1.466E+04 XXX
2.151E+04 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 2.00000E+04
GEOMETRIC MEAN = 1.92476E+02
GEOMETRIC DEVIATION = 1.09685E+01
VARIANCE OF LOGS = 1.08191E+00

PERCENT TABLE FOR VARIABLE 21 (S-PB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 22 (S-SB)

LOG LIMITS		OBS	CUM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	#	26	26	42.62	42.62		
	L	6	32	9.84	52.46		
	T	0	32	0.00	52.46	12.44	12.44
1.916E+00	- 2.083E+00	6	38	9.84	62.30	6.13	0.00
2.083E+00	- 2.249E+00	1	39	1.64	63.93	7.19	5.33
2.249E+00	- 2.416E+00	0	39	0.00	63.93	7.65	7.65
2.416E+00	- 2.583E+00	6	45	9.84	73.77	7.37	0.25
2.583E+00	- 2.749E+00	2	47	3.28	77.05	6.43	3.05
2.749E+00	- 2.916E+00	3	50	4.92	81.97	5.08	0.85
2.916E+00	- 3.083E+00	2	52	3.28	85.25	3.64	0.74
3.083E+00	- 3.249E+00	1	53	1.64	86.89	2.36	0.78
3.249E+00	- 3.416E+00	5	58	8.20	95.08	1.39	9.42
3.416E+00	- 3.583E+00	1	59	1.64	96.72	0.74	0.09
3.583E+00	- 3.749E+00	2	61	3.28	100.00	0.60	3.22
	G	0	61	0.00	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 22 (S-SB)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+01 XXXXXXXXXXXX
1.466E+02 XX
2.151E+02
3.157E+02 XXXXXXXXXXXX
4.634E+02 XXX
6.802E+02 XXXXX
9.985E+02 XXX
1.466E+03 XX
2.151E+03 XXXXXXXXX
3.157E+03 XX
4.635E+03 XXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 5.00000E+03
GEOMETRIC MEAN = 5.52572E+02
GEOMETRIC DEVIATION = 3.51271E+00
VARIANCE OF LOGS = 2.97725E-01

```

PERCENT TABLE FOR VARIABLE 22 (S-SB) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED
PERCENTILE

DATA VALUE

ANTI LOG OF VALUE

90.00	3.312659E+00	2.054326E+03
95.00	3.414336E+00	2.596189E+03
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 23 (S-SC)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	27	27	44.26	44.26		
	L	16	43	26.23	70.49		
	T	0	43	0.00	70.49	1.57	1.57
5.830E-01	7.497E-01	13	56	21.31	91.80	39.44	17.72
7.497E-01	9.163E-01	2	58	3.28	95.08	19.85	16.05
9.163E-01	1.083E+00	3	61	4.92	100.00	0.14	59.36
	G	0	61	0.00	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 23 (S-SC)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXXXXXXXXXXXXXXXXXXXXXX
6.808E+00 XXX
9.992E+00 XXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E+00
MAXIMUM ANTILOG = 1.00000E+01
GEOMETRIC MEAN = 5.92610E+00
GEOMETRIC DEVIATION = 1.31105E+00
VARIANCE OF LOGS = 1.38343E-02

```

PERCENT TABLE FOR VARIABLE 23 (S-SC) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	9.121673E-01	8.158970E+00
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 24 (S-SN)

LOG LIMITS		OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
		58	58	95.08	95.08		
		1	59	1.64	96.72		
		0	59	0.00	96.72	60.97	60.97
1.250E+03	1.417E+03	1	60	1.64	98.36	0.00	0.00
1.417E+03	1.583E+03	1	61	1.64	100.00	0.03	33.10
		0	61	0.00	100.00	0.00	0.00
		0	61				
		0	61				
TOTALS LESS H AND G		61					

HISTOGRAM FOR VARIABLE 24 (S-SN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

2.154E+01 XX
3.162E+01 XX

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+01
 MAXIMUM ANTILOG = 3.00000E+01
 GEOMETRIC MEAN = 2.44949E+01
 GEOMETRIC DEVIATION = 1.33203E+00
 VARIANCE OF LOGS = 1.55040E-02

PERCENT TABLE FOR VARIABLE 24 (S-SN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 25 (S-SR)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	29	29	47.54	47.54		
L	6	35	9.84	57.38		
T	0	35	0.00	57.38	12.60	12.60
1.916E+00 - 2.083E+00	6	41	9.84	67.21	11.55	2.66
2.083E+00 - 2.249E+00	5	46	8.20	75.41	13.32	5.19
2.249E+00 - 2.416E+00	6	52	9.84	85.25	11.38	2.55
2.416E+00 - 2.583E+00	2	54	3.28	88.52	7.21	3.77
2.583E+00 - 2.749E+00	3	57	4.92	93.44	3.39	0.04
2.749E+00 - 2.916E+00	1	58	1.64	95.08	1.18	0.03
2.916E+00 - 3.083E+00	2	60	3.28	98.36	0.30	9.47
3.083E+00 - 3.249E+00	0	60	0.00	98.36	0.06	0.06
3.249E+00 - 3.416E+00	1	61	1.64	100.00	0.01	107.55
G	0	61	0.00	100.00	0.00	0.00
H	0	61				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 25 (S-SR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+01 XXXXXXXXXXXX
1.466E+02 XXXXXXXXXX
2.151E+02 XXXXXXXXXXXX
3.157E+02 XXX
4.634E+02 XXXXX
6.802E+02 XX
9.985E+02 XXX
1.466E+03
2.151E+03 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+02
MAXIMUM ANTILOG = 2.00000E+03
GEOMETRIC MEAN = 2.39967E+02
GEOMETRIC DEVIATION = 2.29942E+00
VARIANCE OF LOGS = 1.30768E-01

```

PERCENT TABLE FOR VARIABLE 25 (S-SR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.632668E+00	4.292083E+02



95.00
98.00

2.907659E+00
3.064336E+00

8.094788E+02
1.159673E+03



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FREQUENCY TABLE FOR VARIABLE 26 (S-V)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOP FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	4	4	6.56	6.56		
L	18	22	29.51	36.07		
T	0	22	0.00	36.07	10.88	10.88
9.160E-01 - 1.083E+00	16	38	26.23	52.30	9.89	3.78
1.083E+00 - 1.249E+00	2	40	3.28	55.57	12.14	8.47
1.249E+00 - 1.416E+00	6	46	9.84	75.41	11.56	2.67
1.416E+00 - 1.583E+00	4	50	6.56	81.97	8.52	2.40
1.583E+00 - 1.749E+00	3	53	4.92	86.89	4.87	0.72
1.749E+00 - 1.916E+00	6	59	9.84	96.72	2.16	6.85
1.916E+00 - 2.083E+00	2	61	3.28	100.00	0.98	1.05
G	0	61	0.00	100.00	0.00	0.00
H	0	51				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 26 (S-V)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.466E+01 XXX
2.151E+01 XXXXXXXXXXXXX
3.157E+01 XXXXXXXX
4.634E+01 XXXXX
6.802E+01 XXXXXXXXXXXXX
9.985E+01 XXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+02
GEOMETRIC MEAN = 2.18445E+01
GEOMETRIC DEVIATION = 2.26217E+00
VARIANCE OF LOGS = 1.25688E-01

```

PERCENT TABLE FOR VARIABLE 26 (S-V) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.802113E+00	6.340345E+01
95.00	1.886835E+00	7.706111E+01
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 28 (S-Y)

LOG LIMITS		OBS	CUM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	12	12	19.67	19.67		
	L	21	33	34.43	54.10		
	T	0	33	0.00	54.10	7.81	7.81
9.160E-01	- 1.083E+00	11	44	18.03	72.13	24.81	7.69
1.083E+00	- 1.249E+00	11	55	18.03	90.16	22.58	5.94
1.249E+00	- 1.416E+00	4	59	6.56	96.72	5.45	0.39
1.416E+00	- 1.583E+00	1	60	1.64	98.36	0.34	1.29
1.583E+00	- 1.749E+00	1	61	1.64	100.00	0.01	188.14
	G	0	61	0.00	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 28 (S-Y) MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXXXXXXXXXXXXXXXXXXX
1.466E+01 XXXXXXXXXXXXXXXXXXXX
2.151E+01 XXXXXXXX
3.157E+01 XX
4.634E+01 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 5.00000E+01
GEOMETRIC MEAN = 1.42627E+01
GEOMETRIC DEVIATION = 1.46934E+00
VARIANCE OF LOGS = 2.79302E-02

```

PERCENT TABLE FOR VARIABLE 28 (S-Y) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION, THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.247819E+00	1.769371E+01
95.00	1.372251E+00	2.356410E+01
98.00	1.546031E+00	3.515615E+01

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FREQUENCY TABLE FOR VARIABLE 29 (S-ZN)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
	N	40	40	65.57	55.57		
	L	7	47	11.48	77.05		
	T	0	47	0.00	77.05	18.90	18.90
2.250E+00	- 2.417E+00	4	51	6.56	83.61	9.89	3.51
2.417E+00	- 2.583E+00	1	52	1.64	85.25	10.19	8.29
2.583E+00	- 2.750E+00	2	54	3.28	88.52	8.77	5.23
2.750E+00	- 2.917E+00	2	56	3.28	91.80	6.32	2.95
2.917E+00	- 3.083E+00	0	56	0.00	91.80	3.81	3.81
3.083E+00	- 3.250E+00	1	57	1.64	93.44	1.92	0.44
3.250E+00	- 3.417E+00	1	58	1.64	95.08	0.81	0.05
3.417E+00	- 3.583E+00	0	58	0.00	95.08	0.28	0.28
3.583E+00	- 3.750E+00	1	59	1.64	96.72	0.11	7.24
	G	2	61	3.28	100.00	0.00	0.00
	H	0	61				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 29 (S-ZN)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+02 XXXXXXX
3.162E+02 XX
4.642E+02 XXX
6.813E+02 XXX
1.000E+03
1.468E+03 XX
2.154E+03 XX
3.162E+03
4.642E+03 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 2.00000E+02
MAXIMUM ANTILOG = 5.00000E+03
GEOMETRIC MEAN = 5.56488E+02
GEOMETRIC DEVIATION = 2.95906E+00
VARIANCE OF LOGS = 2.08140E-01

```

PERCENT TABLE FOR VARIABLE 29 (S-ZN) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.999999E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.825001E+00	6.533457E+02

90.00

0.00000E+00

95.00
98.00

3.408336E+00
1.000000E+35

2.560564E+03
1.000000E+35



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FREQUENCY TABLE FOR VARIABLE 30 (S-ZR)

LOG LIMITS		OBS	CJM	PERCENT	PERCENT	THEOR FREQ	
LOWER	UPPER	FREQ	FREQ	FREQ	CJM FREQ	(NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
		1	1	1.64	1.64		
		2	3	3.28	4.92		
		0	3	0.00	4.92	0.79	0.79
		1	4	1.64	6.56	1.36	0.10
9.160E-01	1.083E+00	4	8	6.56	13.11	2.88	0.43
1.083E+00	1.249E+00	3	11	4.92	18.03	5.12	0.87
1.249E+00	1.416E+00	2	13	3.28	21.31	7.63	4.16
1.416E+00	1.583E+00	11	24	18.03	39.34	9.58	0.21
1.583E+00	1.749E+00	15	39	24.59	53.93	10.10	2.37
1.749E+00	1.916E+00	9	48	14.75	78.69	8.96	0.00
1.916E+00	2.083E+00	7	55	11.48	90.16	6.68	0.02
2.083E+00	2.249E+00	4	59	6.56	95.72	4.19	0.01
2.249E+00	2.416E+00	1	60	1.64	98.36	2.21	0.66
2.416E+00	2.583E+00	0	60	0.00	98.36	0.98	0.98
2.583E+00	2.749E+00	0	60	0.00	98.36	0.36	0.36
2.749E+00	2.916E+00	1	61	1.64	100.00	0.15	4.72
2.916E+00	3.083E+00	0	61	0.00	100.00	0.00	0.00
		0	61				
		0	61				
		0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 30 (S-ZR)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XX
1.466E+01 XXXXXXXX
2.151E+01 XXXXX
3.157E+01 XXX
4.634E+01 XXXXXXXXXXXXXXXXXXXX
6.802E+01 XXXXXXXXXXXXXXXXXXXXXXXX
9.985E+01 XXXXXXXXXXXXXXXX
1.466E+02 XXXXXXXXXXXXX
2.151E+02 XXXXXXXX
3.157E+02 XX
4.635E+02
6.803E+02
9.985E+02 XX
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 1.00000E+03
GEOMETRIC MEAN = 6.95155E+01
GEOMETRIC DEVIATION = 2.29833E+00
VARIANCE OF LOGS = 1.30619E-01
    
```


PERCENT TABLE FOR VARIABLE 30 (S-ZR) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.246955E+00	1.765855E+02
95.00	2.372253E+00	2.356421E+02
98.00	2.546003E+00	3.515631E+02

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FREQUENCY TABLE FOR VARIABLE 32 (AA-AU-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOP FREQ (NORMAL DIST)	(THEOP FREQ - OBS FREQ)**2/THEOP FREQ
N	26	26	42.62	42.62		
L	6	32	9.84	52.46		
T	0	32	0.00	52.46	12.76	12.76
-1.417E+00 - -1.250E+00	8	40	13.11	65.57	5.44	1.21
-1.250E+00 - -1.084E+00	0	40	0.00	65.57	6.30	6.30
-1.084E+00 - -9.170E-01	2	42	3.28	68.85	6.75	3.34
-9.170E-01 - -7.503E-01	2	44	3.28	72.13	6.69	3.29
-7.503E-01 - -5.837E-01	4	48	6.56	78.69	6.14	0.75
-5.837E-01 - -4.170E-01	1	49	1.64	80.33	5.21	3.40
-4.170E-01 - -2.503E-01	2	51	3.28	83.61	4.09	1.07
-2.503E-01 - -8.366E-02	2	53	3.28	86.89	2.97	0.32
-8.366E-02 - 8.300E-02	0	53	0.00	86.89	1.99	1.99
8.300E-02 - 2.497E-01	3	56	4.92	91.80	1.24	2.50
2.497E-01 - 4.163E-01	2	58	3.28	95.08	0.71	2.33
4.163E-01 - 5.830E-01	2	60	3.28	98.36	0.38	6.94
5.830E-01 - 7.497E-01	1	61	1.64	100.00	0.33	1.38
G	0	61	0.00	100.00	0.00	0.00
H	0	61				
B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 32 (AA-AU-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E-02 XXXXXXXXXXXXX
6.808E-02
9.992E-02 XXX
1.467E-01 XXX
2.153E-01 XXXXXXXX
3.160E-01 XX
4.638E-01 XXX
6.808E-01 XXX
9.992E-01
1.467E+00 XXXXX
2.153E+00 XXX
3.160E+00 XXX
4.638E+00 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 5.00000E-02
MAXIMUM ANTILOG = 4.70000E+00
GEOMETRIC MEAN = 2.94011E-01
GEOMETRIC DEVIATION = 4.58795E+00
VARIANCE OF LOGS = 4.37739E-01

```

PERCENT TABLE FOR VARIABLE 32 (AA-AU-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.274475E-01	1.341058E+00
95.00	4.121703E-01	2.583273E+00
99.00	5.646736E-01	3.570039E+00

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FREQUENCY TABLE FOR VARIABLE 33 (INST-HG)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THFOR FREQ
N	0	0	0.00	0.00		
L	1	1	1.64	1.64		
T	0	1	0.00	1.64	1.35	1.35
-1.250E+03 - -1.083E+00	4	5	6.56	8.20	1.04	8.47
-1.083E+00 - -9.167E-01	3	8	4.92	13.11	1.61	1.21
-9.167E-01 - -7.500E-01	0	8	0.00	13.11	2.34	2.34
-7.500E-01 - -5.833E-01	3	11	4.92	18.03	3.21	0.01
-5.833E-01 - -4.167E-01	1	12	1.64	19.67	4.12	2.36
-4.167E-01 - -2.500E-01	6	18	9.84	29.51	4.98	0.21
-2.500E-01 - -8.333E-02	7	25	11.48	40.98	5.65	0.32
-8.333E-02 - 8.334E-02	4	29	6.56	47.54	6.03	0.68
8.334E-02 - 2.500E-01	1	30	1.64	49.18	6.04	4.20
2.500E-01 - 4.167E-01	4	34	6.56	55.74	5.68	0.50
4.167E-01 - 5.833E-01	2	36	3.28	59.02	5.02	1.82
5.833E-01 - 7.500E-01	3	39	4.92	63.93	4.17	0.33
7.500E-01 - 9.167E-01	1	40	1.64	65.57	9.76	7.86
G	21	61	34.43	100.00	0.00	0.00
H	0	61				
R	0	61				

TOTALS LESS H AND R 61

HISTOGRAM FOR VARIABLE 33 (INST-HG)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

6.813E-02 XXXXXXXX
1.000E-01 XXXXXX
1.468E-01
2.154E-01 XXXXXX
3.162E-01 XX
4.642E-01 XXXXXXXXXXXX
6.813E-01 XXXXXXXXXXXX
1.000E+00 XXXXXXXX
1.468E+00 XX
2.154E+00 XXXXXXXX
3.162E+00 XXX
4.642E+00 XXXXX
6.813E+00 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 6.00000E-02
MAXIMUM ANTILOG = 5.20000E+00
GEOMETRIC MEAN = 6.38247E-01
GEOMETRIC DEVIATION = 3.72763E+00
VARIANCE OF LOGS = 3.26536E-01

```

PERCENT TABLE FOR VARIABLE 33 (INST-HG) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

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FREQUENCY TABLE FOR VARIABLE 34 (AA-AS-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CJM FREQ	PERCENT FREQ	PERCENT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
N	5	5	8.20	8.20		
L	1	6	1.64	9.84		
T	0	6	0.00	9.84	2.01	2.01
9.160E-01 - 1.083E+00	2	8	3.28	13.11	1.53	0.15
1.083E+00 - 1.249E+00	0	8	0.00	13.11	2.32	2.32
1.249E+00 - 1.416E+00	3	11	4.92	18.03	3.28	0.02
1.416E+00 - 1.583E+00	1	12	1.64	19.67	4.32	2.55
1.583E+00 - 1.749E+00	8	20	13.11	32.79	5.29	1.38
1.749E+00 - 1.916E+00	5	25	8.20	40.98	6.05	0.18
1.916E+00 - 2.083E+00	5	30	8.20	49.18	6.44	0.32
2.083E+00 - 2.249E+00	5	35	8.20	57.39	6.39	0.30
2.249E+00 - 2.416E+00	6	41	9.84	67.21	5.91	0.00
2.416E+00 - 2.583E+00	4	45	6.56	73.77	5.09	0.23
2.583E+00 - 2.749E+00	8	53	13.11	86.89	4.08	3.77
2.749E+00 - 2.916E+00	4	57	6.56	93.44	8.30	2.23
G	4	51	6.56	100.00	0.00	0.00
H	0	61				
B	0	51				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 34 (AA-AS-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

9.985E+00 XXX
1.466E+01
2.151E+01 XXXXX
3.157E+01 XX
4.634E+01 XXXXXXXXXXXXX
6.802E+01 XXXXXXXXX
9.985E+01 XXXXXXXXX
1.466E+02 XXXXXXXXX
2.151E+02 XXXXXXXXX
3.157E+02 XXXXXXXX
4.635E+02 XXXXXXXXXXXXX
6.803E+02 XXXXXXXX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

```

MINIMUM ANTILOG = 1.00000E+01
MAXIMUM ANTILOG = 8.00000E+02
GEOMETRIC MEAN = 1.30445E+02
GEOMETRIC DEVIATION = 3.22740E+00
VARIANCE OF LOGS = 2.58931E-01

```

PERCENT TABLE FOR VARIABLE 34 (AA-AS-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION

PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION. FROM FREQUENCY TABLE

THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	2.828504E+00	6.737578E+02
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

DDC36 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

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FREQUENCY TABLE FOR VARIABLE 35 (AA-ZN-P)

LOG LIMITS LOWER - UPPER	OBS FREQ	CUM FREQ	PERCENT FREQ	PERCENT CUM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THFOR FREQ
N	6	6	9.84	9.84		
L	1	7	1.64	11.48		
T	0	7	0.00	11.48	4.15	4.15
5.830E-01 - 7.497E-01	6	13	9.84	21.31	2.08	7.41
7.497E-01 - 9.163E-01	0	13	0.00	21.31	2.75	2.75
9.163E-01 - 1.083E+00	2	15	3.28	24.59	3.46	0.62
1.083E+00 - 1.250E+00	1	16	1.64	26.23	4.15	2.79
1.250E+00 - 1.416E+00	8	24	13.11	39.34	4.74	2.24
1.416E+00 - 1.583E+00	4	28	6.56	45.90	5.16	0.26
1.583E+00 - 1.750E+00	4	32	6.56	52.46	5.36	0.34
1.750E+00 - 1.916E+00	6	38	9.84	62.30	5.79	0.10
1.916E+00 - 2.083E+00	6	44	9.84	72.13	4.98	0.21
2.083E+00 - 2.250E+00	3	47	4.92	77.05	4.46	0.48
2.250E+00 - 2.416E+00	3	50	4.92	81.97	3.81	0.17
2.416E+00 - 2.583E+00	2	52	3.28	85.25	3.10	0.39
2.583E+00 - 2.750E+00	1	53	1.64	86.89	2.40	0.82
2.750E+00 - 2.916E+00	0	53	0.00	86.89	1.77	1.77
2.916E+00 - 3.083E+00	2	55	3.28	90.16	3.34	0.54
G	6	61	9.84	100.00	0.00	0.00
H	0	61				
P	0	61				

TOTALS LESS H AND P 61

HISTOGRAM FOR VARIABLE 35 (AA-ZN-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

4.638E+00 XXXXXXXXXXXX
6.808E+00
9.992E+00 XXX
1.467E+01 XX
2.153E+01 XXXXXXXXXXXXXXXX
3.160E+01 XXXXXXXX
4.638E+01 XXXXXXXX
6.808E+01 XXXXXXXXXXXX
9.992E+01 XXXXXXXXXXXX
1.467E+02 XXXXX
2.153E+02 XXXXX
3.160E+02 XXX
4.638E+02 XX
6.808E+02
9.992E+02 XXX
    
```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 5.00000E+00
 MAXIMUM ANTILOG = 9.00000E+02
 GEOMETRIC MEAN = 4.86959E+01

GEOMETRIC DEVIATION =

GEOMETRIC DEVIATION = 3.85520E+00
VARIANCE OF LOGS = 3.43450E-01

PERCENT TABLE FOR VARIABLE 35 (AA-ZN-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	3.066338E+00	1.155033E+03
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35

D0036 GRAPHICAL ANALYSIS - U S G S STATPAC (02/07/82)

DATE 7/10/85

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FREQUENCY TABLE FOR VARIABLE 36 (AA-SB-P)

LOG LIMITS		OBS FREQ	CUM FREQ	PERCENT FREQ	PERCFNT CJM FREQ	THEOR FREQ (NORMAL DIST)	(THEOR FREQ - OBS FREQ)**2/THEOR FREQ
LOWER	UPPER						
	N	8	8	13.11	13.11		
	L	1	9	1.64	14.75		
	T	0	9	0.00	14.75	3.75	3.75
2.500E-01	- 4.167E-01	2	11	3.28	18.03	1.59	0.10
4.167E-01	- 5.833E-01	0	11	0.00	18.03	2.05	2.05
5.833E-01	- 7.500E-01	1	12	1.64	19.67	2.55	0.95
7.500E-01	- 9.167E-01	4	16	6.56	26.23	3.07	0.28
9.167E-01	- 1.083E+00	4	20	6.56	32.79	3.56	0.06
1.083E+00	- 1.250E+00	3	23	4.92	37.70	3.98	0.24
1.250E+00	- 1.417E+00	4	27	6.56	44.26	4.31	0.02
1.417E+00	- 1.583E+00	1	28	1.64	45.90	4.50	2.72
1.583E+00	- 1.750E+00	4	32	6.56	52.46	4.54	0.06
1.750E+00	- 1.917E+00	3	35	4.92	57.38	4.42	0.46
1.917E+00	- 2.083E+00	3	38	4.92	62.30	4.16	0.32
2.083E+00	- 2.250E+00	3	41	4.92	67.21	3.78	0.16
2.250E+00	- 2.417E+00	4	45	6.56	73.77	3.32	0.14
2.417E+00	- 2.583E+00	3	48	4.92	78.69	2.81	0.01
2.583E+00	- 2.750E+00	3	51	4.92	83.61	2.30	0.21
2.750E+00	- 2.917E+00	1	52	1.64	85.25	1.82	0.77
2.917E+00	- 3.083E+00	1	53	1.64	86.89	4.49	2.71
	G	3	51	13.11	100.00	0.00	0.00
	H	0	51				
	B	0	61				

TOTALS LESS H AND B 61

HISTOGRAM FOR VARIABLE 36 (AA-SB-P)
MIDPOINTS ARE EXPRESSED AS ANTILOGS

```

2.154E+00 XXX
3.162E+00
4.642E+00 XX
6.813E+00 XXXXXXXX
1.000E+01 XXXXXXXX
1.468E+01 XXXXXX
2.154E+01 XXXXXXXX
3.162E+01 XX
4.642E+01 XXXXXXXX
6.813E+01 XXXXXX
1.000E+02 XXXXXX
1.468E+02 XXXXXX
2.154E+02 XXXXXXXX
3.162E+02 XXXXXX
4.642E+02 XXXXXX
6.813E+02 XX
1.000E+03 XX

```

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

THE FOLLOWING STATISTICS ARE COMPUTED FOR THE UNQUALIFIED VALUES ONLY

MINIMUM ANTILOG = 2.00000E+00
 MAXIMUM ANTILOG = 1.00000E+03
 GEOMETRIC MEAN = 4.93932E+01
 GEOMETRIC DEVIATION = 5.13051E+00
 VARIANCE OF LOGS = 5.04328E-01

PERCENT TABLE FOR VARIABLE 36 (AA-SB-P) BY LINEAR INTERPOLATION FROM FREQUENCY TABLE
 IF SELECTED PERCENTILES FALL WITHIN DATA EITHER ABOVE OR BELOW THE LIMITS OF DETECTION,
 THE DATA VALUE ON THE TABLE IS GIVEN AS 0.9999991E 50

SELECTED PERCENTILE	DATA VALUE	ANTI LOG OF VALUE
90.00	1.000000E+35	1.000000E+35
95.00	1.000000E+35	1.000000E+35
98.00	1.000000E+35	1.000000E+35