DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

MISCELLANEOUS FIELD STUDIES
MAP MF– 351

**SHEET 2 OF 2**

A470 GEOCHEMICAL SUMMARY - U S G S STATPAC (08/02/71) DATE 12/22/71

Table 2
TITLE
STREAM SEDIMENT SAMPLES

## TABLE 2. STREAM – SEDIMENT SAMPLES

| SAMPLE | MAP NO. | S-FE % | S-MG % | S-CA % | S-TI % | S-MN | S-AG | S-B | S-BA | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO | S-NB | S-NI | S-PB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BAN613 | 1 | 7.0000 | 1.5000 | 0.3000 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 15.0000 |
| BAN612 | 2 | 7.0000 | 1.5000 | 0.2000 | 0.7000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.0000 | 30.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN611 | 3 | 7.0000 | 1.5000 | 0.1500 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000L | 20.0000 | 150.0000 | 100.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 15.0000 |
| BAN441 | 4 | 5.0000 | 1.5000 | 1.5000 | 0.5000 | 1500.0000 | 0.5000N | 20.0000 | 500.0000 | 1.0000L | 15.0000 | 30.0000 | 15.0000 | 20.0000N | 5.0000N | 10.0000L | 15.0000 | 10.0000N |
| BAN459 | 5 | 10.0000 | 2.0000 | 2.0000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000L | 20.0000 | 150.0000 | 30.0000 | 20.0000N | 5.0000L | 10.0000L | 50.0000 | 10.0000L |
| BAN458 | 6 | 15.0000 | 3.0000 | 1.5000 | 0.7000 | 1500.0000 | 0.5000N | 30.0000 | 700.0000 | 1.0000L | 30.0000 | 70.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN440 | 7 | 7.0000 | 2.0000 | 1.5000 | 0.7000 | 1500.0000 | 0.5000N | 30.0000 | 700.0000 | 1.0000L | 15.0000 | 70.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000L | 30.0000 | 10.0000N |
| BAN457 | 8 | 7.0000 | 2.0000 | 2.0000 | 0.7000 | 1500.0000 | 0.5000N | 30.0000 | 700.0000 | 1.0000L | 15.0000 | 70.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000L | 30.0000 | 10.0000N |
| BAN460 | 9 | 10.0000 | 2.0000 | 0.7000 | 0.7000 | 1000.0000 | 0.5000N | 50.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 30.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 10.0000 |
| BAN442 | 10 | 7.0000 | 2.0000 | 0.7000 | 0.7000 | 1000.0000 | 0.5000N | 50.0000 | 700.0000 | 1.0000 | 15.0000 | 150.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 15.0000 |
| BAN461 | 11 | 7.0000 | 2.0000 | 2.0000 | 0.7000 | 1500.0000 | 0.5000N | 30.0000 | 700.0000 | 1.0000L | 15.0000 | 70.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000L | 30.0000 | 10.0000N |
| BAN445 | 12 | 5.0000 | 2.0000 | 1.5000 | 0.5000 | 1000.0000 | 0.5000N | 50.0000 | 500.0000 | 1.0000L | 15.0000 | 70.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000L | 20.0000 | 10.0000N |
| BAN443 | 13 | 7.0000 | 2.0000 | 1.5000 | 0.5000 | 1500.0000 | 0.5000N | 30.0000 | 700.0000 | 1.0000L | 15.0000 | 100.0000 | 20.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 10.0000L |
| BAN444 | 14 | 7.0000 | 2.0000 | 0.5000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.5000 | 20.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN462 | 15 | 10.0000 | 2.0000 | 0.5000 | 0.7000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 30.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 100.0000 | 30.0000 |
| BAN237 | 16 | 10.0000 | 2.0000 | 0.7000 | 0.7000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 30.0000 | 150.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 | 15.0000 |
| BAN238 | 17 | 10.0000 | 2.0000 | 0.5000 | 1.0000 | 1000.0000 | 0.5000N | 70.0000 | 500.0000 | 1.0000L | 30.0000 | 150.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 | 20.0000 |
| BAN233 | 18 | 7.0000 | 2.0000 | 0.5000 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 300.0000 | 1.0000 | 30.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000 | 70.0000 | 30.0000 |
| BAN455 | 20 | 10.0000 | 1.5000 | 0.7000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 100.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 30.0000 | 15.0000 |
| BAN437 | 21 | 7.0000 | 1.5000 | 0.3000 | 0.5000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.5000 | 20.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN454 | 22 | 10.0000 | 1.5000 | 0.2000 | 0.7000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.5000 | 30.0000 | 100.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN438 | 23 | 7.0000 | 2.0000 | 0.3000 | 0.7000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 15.0000 |
| BAN464 | 24 | 10.0000 | 1.5000 | 0.5000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000L | 100.0000 | 20.0000 |
| BAN439 | 25 | 7.0000 | 2.0000 | 0.5000 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 15.0000 |
| BAN456 | 26 | 10.0000 | 1.5000 | 0.1500 | 0.7000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.5000 | 30.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 100.0000 | 50.0000 |
| BAN434 | 27 | 7.0000 | 1.5000 | 0.5000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 20.0000 |
| BAN448 | 28 | 7.0000 | 1.5000 | 0.5000 | 0.7000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 30.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000L | 100.0000 | 50.0000 |
| BAN435 | 29 | 7.0000 | 1.5000 | 0.3000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.5000 | 20.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 20.0000 |
| BAN449 | 30 | 7.0000 | 1.5000 | 0.5000 | 0.5000 | 700.0000 | 0.5000N | 100.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 30.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 20.0000 |
| BAN436 | 31 | 7.0000 | 2.0000 | 0.5000 | 0.5000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 15.0000 | 150.0000 | 30.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 20.0000 |
| BAN450 | 32 | 7.0000 | 1.5000 | 0.3000 | 0.5000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.0000 | 30.0000 | 150.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000L | 100.0000 | 20.0000 |
| BAN451 | 33 | 7.0000 | 1.5000 | 0.3000 | 0.5000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.0000 | 30.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN452 | 34 | 7.0000 | 1.5000 | 1.0000 | 0.3000 | 1500.0000 | 0.5000N | 30.0000 | 700.0000 | 1.0000 | 20.0000 | 70.0000 | 20.0000 | 20.0000N | 5.0000L | 10.0000L | 50.0000 | 20.0000 |
| BAN453 | 35 | 7.0000 | 1.5000 | 0.7000 | 0.7000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.5000 | 30.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 100.0000 | 50.0000 |
| BAN463 | 36 | 10.0000 | 2.0000 | 0.5000 | 0.7000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 30.0000 | 20.0000L | 5.0000L | 10.0000L | 100.0000 | 30.0000 |
| BAN236 | 37 | 10.0000 | 1.5000 | 0.5000 | 0.7000 | 1000.0000 | 0.5000N | 150.0000 | 700.0000 | 1.0000 | 30.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 20.0000 |
| BAN235 | 38 | 7.0000 | 2.0000 | 0.7000 | 0.5000 | 700.0000 | 0.5000N | 100.0000 | 300.0000 | 1.0000 | 20.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000 | 70.0000 | 15.0000 |
| BAN234 | 39 | 10.0000 | 2.0000 | 0.5000 | 0.5000 | 700.0000 | 0.5000N | 70.0000 | 300.0000 | 1.0000L | 20.0000 | 150.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000 | 70.0000 | 15.0000 |
| BAN426 | 40 | 7.0000 | 1.5000 | 0.1500 | 0.5000 | 700.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 100.0000 | 20.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 15.0000 |
| BAN565 | 41 | 5.0000 | 1.5000 | 0.7000 | 0.5000 | 1000.0000 | 0.5000N | 50.0000 | 700.0000 | 2.0000 | 20.0000 | 100.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 50.0000 |
| BAN566 | 42 | 7.0000 | 1.5000 | 0.7000 | 0.5000 | 1500.0000 | 0.5000L | 70.0000 | 700.0000 | 1.5000 | 30.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 70.0000 |
| BAN433 | 43 | 7.0000 | 2.0000 | 1.0000 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000L | 30.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 20.0000 |
| BAN446 | 44 | 7.0000 | 2.0000 | 0.7000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 200.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000L | 100.0000 | 15.0000 |
| BAN429 | 45 | 5.0000 | 2.0000 | 0.3000 | 0.5000 | 700.0000 | 0.5000N | 50.0000 | 700.0000 | 1.0000 | 15.0000 | 150.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 20.0000 |
| BAN432 | 46 | 7.0000 | 1.5000 | 0.5000 | 0.3000 | 1500.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN447 | 47 | 7.0000 | 1.5000 | 0.3000 | 0.5000 | 1500.0000 | 0.5000N | 150.0000 | 700.0000 | 1.5000 | 20.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 30.0000 |
| BAN430 | 48 | 5.0000 | 2.0000 | 0.7000 | 0.5000 | 700.0000 | 0.5000N | 50.0000 | 700.0000 | 1.0000 | 15.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 | 15.0000 |
| BAN428 | 49 | 7.0000 | 2.0000 | 0.3000 | 0.5000 | 700.0000 | 0.5000N | 50.0000 | 700.0000 | 1.0000L | 20.0000 | 150.0000 | 50.0000 | 20.0000N | 5.0000N | 10.0000L | 100.0000 | 15.0000 |
| BAN431 | 50 | 5.0000 | 2.0000 | 0.7000 | 0.5000 | 700.0000 | 0.5000N | 50.0000 | 700.0000 | 1.0000 | 15.0000 | 150.0000 | 30.0000 | 20.0000N | 5.0000N | 10.0000L | 70.0000 | 15.0000 |
| AKC565 | 51 | 10.0000 | 2.0000 | 0.7000 | 0.7000 | 1000.0000 | 0.5000N | 100.0000 | 1500.0000 | 1.0000 | 30.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 15.0000 | 150.0000 | 30.0000 |
| AKC566 | 52 | 5.0000 | 3.0000 | 0.7000 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 1500.0000 | 1.5000 | 30.0000 | 100.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 | 20.0000 |
| BAN094 | 53 | 7.0000 | 3.0000 | 0.5000 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 15.0000 | 150.0000 | 100.0000 | 20.0000N | 5.0000L | 10.0000 | 100.0000 | 20.0000 |
| BAN095 | 54 | 10.0000 | 3.0000 | 0.7000 | 0.7000 | 1000.0000 | 0.5000N | 50.0000 | 700.0000 | 1.0000L | 15.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000N | 10.0000L | 70.0000 | 30.0000 |
| BAN096 | 55 | 15.0000 | 5.0000 | 1.0000 | 1.0000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.5000 | 20.0000 | 300.0000 | 150.0000 | 20.0000L | 5.0000L | 10.0000 | 150.0000 | 70.0000 |
| BAN097 | 56 | 15.0000 | 3.0000 | 1.0000 | 0.5000 | 1000.0000 | 0.5000N | 70.0000 | 500.0000 | 1.0000L | 30.0000 | 300.0000 | 150.0000 | 20.0000N | 5.0000L | 10.0000 | 150.0000 | 70.0000 |
| AKC511 | 57 | 5.0000 | 2.0000 | 0.3000 | 0.3000 | 1000.0000 | 0.5000N | 50.0000 | 1000.0000 | 1.0000 | 15.0000 | 150.0000 | 30.0000 | 20.0000L | 5.0000N | 10.0000L | 70.0000 | 30.0000 |
| AKC512 | 58 | 5.0000 | 2.0000 | 0.3000 | 0.3000 | 700.0000 | 0.5000N | 30.0000 | 700.0000 | 1.0000L | 15.0000 | 150.0000 | 30.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 | 30.0000 |
| BAN245 | 59 | 7.0000 | 2.0000 | 0.3000 | 0.7000 | 1000.0000 | 0.5000N | 70.0000 | 500.0000 | 1.0000 | 20.0000 | 150.0000 | 30.0000 | 20.0000N | 5.0000N | 10.0000 | 70.0000 | 20.0000 |
| BAN246 | 60 | 7.0000 | 3.0000 | 0.7000 | 1.0000 | 1000.0000 | 0.5000N | 70.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 30.0000 | 20.0000L | 5.0000N | 10.0000L | 70.0000 | 15.0000 |
| BAN032 | 61 | 10.0000 | 2.0000 | 0.5000 | 1.0000 | 1500.0000 | 0.5000L | 50.0000 | 500.0000 | 1.0000L | 50.0000 | 200.0000 | 150.0000 | 20.0000L | 5.0000L | 10.0000L | 100.0000 | 50.0000 |
| BAN247 | 62 | 10.0000 | 1.5000 | 0.7000 | 0.7000 | 1500.0000 | 0.5000N | 70.0000 | 500.0000 | 1.0000L | 30.0000 | 150.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 | 30.0000 |
| BAN244 | 63 | 7.0000 | 1.5000 | 0.3000 | 0.5000 | 700.0000 | 0.5000N | 70.0000 | 300.0000 | 1.0000L | 20.0000 | 150.0000 | 30.0000 | 20.0000L | 5.0000N | 10.0000L | 70.0000 | 10.0000 |
| BAN243 | 64 | 10.0000 | 2.0000 | 0.5000 | 0.7000 | 1000.0000 | 0.5000N | 70.0000 | 500.0000 | 1.0000 | 20.0000 | 150.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 | 15.0000 |
| BAN038 | 65 | 15.0000 | 3.0000 | 0.5000 | 1.0000 | 5000.0000 | 0.5000N | 150.0000 | 700.0000 | 1.0000 | 30.0000 | 200.0000 | 100.0000 | 20.0000L | 5.0000L | 10.0000 | 150.0000 | 50.0000 |
| BAN039 | 66 | 15.0000 | 3.0000 | 0.3000 | 1.0000 | 1500.0000 | 0.5000N | 200.0000 | 700.0000 | 1.0000 | 30.0000 | 200.0000 | 100.0000 | 20.0000L | 5.0000L | 10.0000 | 150.0000 | 30.0000 |
| BAN037 | 67 | 15.0000 | 3.0000 | 0.5000 | 1.0000 | 5000.0000 | 0.5000N | 150.0000 | 700.0000 | 1.0000 | 30.0000 | 200.0000 | 100.0000 | 20.0000L | 5.0000L | 10.0000 | 150.0000 | 30.0000 |
| BAN036 | 68 | 10.0000 | 3.0000 | 0.5000 | 0.7000 | 1500.0000 | 0.5000L | 100.0000 | 700.0000 | 1.0000 | 30.0000 | 200.0000 | 100.0000 | 20.0000L | 5.0000N | 10.0000 | 100.0000 | 30.0000 |
| BAN035 | 69 | 15.0000 | 3.0000 | 0.5000 | 1.0000G | 1500.0000 | 0.5000N | 150.0000 | 700.0000 | 1.0000L | 30.0000 | 300.0000 | 150.0000 | 20.0000L | 5.0000L | 10.0000 | 150.0000 | 15.0000 |
| BAN033 | 70 | 10.0000 | 2.0000 | 0.3000 | 1.0000 | 1500.0000 | 0.5000N | 100.0000 | 700.0000 | 1.0000L | 30.0000 | 300.0000 | 150.0000 | 20.0000L | 5.0000L | 10.0000 | 150.0000 | 20.0000 |
| BAN034 | 71 | 10.0000 | 3.0000 | 0.5000 | 1.0000 | 1500.0000 | 0.5000N | 150.0000 | 700.0000 | 1.0000L | 30.0000 | 150.0000 | 100.0000 | 20.0000L | 5.0000L | 10.0000 | 100.0000 | 20.0000 |

| SAMPLE | S-SB | S-SC | S-SN | S-SR | S-V | S-W | S-Y | S-ZN | S-ZR | AA-AU-P | INST-HG(rerun) | INST-HG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BAN613 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.5500 |
| BAN612 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000L | 300.0000 | 0.0200L | | 0.6000 |
| BAN611 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.4500 |
| BAN441 | 100.0000N | 15.0000 | 10.0000N | 300.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 0.1800 | 1.0000 |
| BAN459 | 100.0000N | 30.0000 | 10.0000N | 500.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.4500 | 0.3500 |
| BAN458 | 100.0000N | 30.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 0.3800 | 0.3000 |
| BAN440 | 100.0000N | 20.0000 | 10.0000N | 500.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.1000 | 0.2200 | 0.9000 |
| BAN457 | 100.0000N | 20.0000 | 10.0000N | 500.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 0.4000 | 0.6500 |
| BAN460 | 100.0000N | 20.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.3000 | 0.7000 |
| BAN442 | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.1000 | 0.2400 | 0.6500 |
| BAN461 | 100.0000N | 20.0000 | 10.0000N | 700.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 0.2400 | 0.5500 |
| BAN445 | 100.0000N | 15.0000 | 10.0000N | 500.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 70.0000 | 0.0200L | 0.5500 | 0.3000 |
| BAN443 | 100.0000N | 20.0000 | 10.0000N | 500.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.3500 | 0.2200 |
| BAN444 | 100.0000N | 15.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.6500 | 0.6000 |
| BAN462 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 200.0000 | 0.0200L | 0.4500 | 0.6000 |
| BAN237 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 300.0000 | 0.0200L | | 0.2000 |
| BAN238 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000L | 300.0000 | 0.0200L | | 0.4000 |
| BAN233 | 100.0000N | 15.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000L | 200.0000 | 0.0200L | | 0.3500 |
| BAN455 | 100.0000N | 20.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 0.3000 | 0.4000 |
| BAN437 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.8000 | 1.4000 |
| BAN454 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000L | 150.0000 | 0.0200L | 1.0000 | 0.8000 |
| BAN438 | 100.0000N | 20.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.5000 | 1.4000 |
| BAN464 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.5000 | 0.8000 |
| BAN439 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.6000 | 0.7000 |
| BAN456 | 100.0000N | 20.0000 | 10.0000N | 100.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000L | 150.0000 | 0.0200L | 0.9000 | 0.8000 |
| BAN434 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.7000 | 0.7000 |
| BAN448 | 100.0000N | 30.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 150.0000 | 0.0400L | 0.4000 | 0.7000 |
| BAN435 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.8000 | 0.7500 |
| BAN449 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.5500 | 0.6000 |
| BAN436 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.6000 | 0.8000 |
| BAN450 | 100.0000N | 30.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 150.0000 | 0.0200L | 0.7500 | 0.3500 |
| BAN451 | 100.0000N | 30.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 200.0000 | 0.0200L | 0.7000 | 0.4500 |
| BAN452 | 100.0000N | 15.0000 | 10.0000N | 300.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0400L | 0.8000 | 0.6000 |
| BAN453 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 1.1000 | 0.4000 |
| BAN463 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 200.0000 | 0.0200L | 0.2400 | 0.5000 |
| BAN236 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000L | 300.0000 | 0.0200L | | 0.3500 |
| BAN235 | 100.0000N | 15.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 15.0000 | 200.0000N | 200.0000 | 0.0200L | | 0.2800 |
| BAN234 | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000L | 150.0000 | 0.0200L | | 0.2200 |
| BAN426 | 100.0000N | 20.0000 | 10.0000N | 100.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 200.0000 | 0.0200L | 0.4000 | 0.5000 |
| BAN565 | 100.0000N | 20.0000 | 10.0000N | 300.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0400L | | 0:2600 |
| BAN566 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | | 0.4000 |
| BAN433 | 100.0000N | 20.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 0.4500 | 0.4500 |
| BAN446 | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 300.0000 | 0.0200L | 0.3500 | 0.2400 |
| BAN429 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.2000 | 0.4500 |
| BAN432 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0400L | 0.6500 | 0.4000 |
| BAN447 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.6000 | 0.4000 |
| BAN430 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 0.2400 | 0.4000 |
| BAN428 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.2400 | 0.2200 |
| BAN431 | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.2400 | 0.3000 |
| AKC565 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000L | 200.0000 | 0.0200L | | 0.5000 |
| AKC566 | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000 | 100.0000 | 0.0200L | | 0.3000 |
| BAN094 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.1600 |
| BAN095 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.0700 |
| BAN096 | 100.0000N | 30.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000L | 300.0000 | 0.1000L | | 0.2500 |
| BAN097 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | | 0.5500 |
| AKC511 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | | 0.0900 |
| AKC512 | 100.0000N | 15.0000 | 10.0000N | 100.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.9000 | | 0.1500 |
| BAN245 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.3500 |
| BAN246 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.4000 |
| BAN032 | 100.0000N | 30.0000 | 10.0000N | 100.0000L | 300.0000 | 50.0000N | 50.0000 | 200.0000L | 150.0000 | 0.0200L | | 0.2200 |
| BAN247 | 100.0000N | 20.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.4000 |
| BAN244 | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.1200 |
| BAN243 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | | 0.1500 |
| BAN038 | 100.0000N | 30.0000 | 10.0000N | 200.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000L | 200.0000 | 0.0200L | | 0.3500 |
| BAN039 | 100.0000N | 30.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 200.0000 | 0.0200L | | 0.2800 |
| BAN037 | 100.0000N | 30.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 50.0000 | 200.0000L | 300.0000 | 0.0200L | | 0.2800 |
| BAN036 | 100.0000N | 30.0000 | 10.0000N | 100.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 200.0000 | 0.0200L | | 0.1400 |
| BAN035 | 100.0000N | 30.0000 | 10.0000N | 100.0000 | 300.0000 | 50.0000N | 50.0000 | 200.0000N | 300.0000 | 0.0200L | | 0.0800 |
| BAN033 | 100.0000N | 30.0000 | 10.0000N | 100.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 200.0000 | 0.0200L | | 0.2000 |
| BAN034 | 100.0000N | 30.0000 | 10.0000N | 100.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 300.0000 | 0.0200L | | 0.2200 |

FREQUENCY TABLE FOR COLUMN (S-FE %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E-02 - 5.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-02 - 8.3E-02 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-02 - 1.2E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-01 - 1.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E-01 - 2.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-01 - 3.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-01 - 5.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-01 - 8.3E-01 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-01 - 1.2E 00 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 00 - 1.8E 00 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 00 - 2.6E 00 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 00 - 3.8E 00 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 00 - 5.6E 00 | 9 | 9 | 12.86 | 12.86 |
| 5.6E 00 - 8.3E 00 | 34 | 43 | 48.57 | 61.43 |
| 8.3E 00 - 1.2E 01 | 20 | 63 | 28.57 | 90.00 |
| 1.2E 01 - 1.8E 01 | 7 | 70 | 10.00 | 100.00 |

HISTOGRAM FOR COLUMN 4 (S-FE %)

```
5.0E 00 XXXXXXXXXXXX
7.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5E 01 XXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 01
MINIMUM = 5.00000E 00
GEOMETRIC MEAN = 8.01051E 00
GEOMETRIC DEVIATION = 1.35468E 00

FREQUENCY TABLE FOR COLUMN (S-MG %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 1.8E-02 - 2.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-02 - 3.8E-02 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-02 - 5.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-02 - 8.3E-02 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-02 - 1.2E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-01 - 1.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E-01 - 2.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-01 - 3.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-01 - 5.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-01 - 8.3E-01 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-01 - 1.2E 00 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 00 - 1.8E 00 | 25 | 25 | 35.71 | 35.71 |
| 1.8E 00 - 2.6E 00 | 32 | 57 | 45.71 | 81.43 |
| 2.6E 00 - 3.8E 00 | 12 | 69 | 17.14 | 98.57 |
| 3.8E 00 - 5.6E 00 | 1 | 70 | 1.43 | 100.00 |

HISTOGRAM FOR COLUMN 5 (S-MG %)

```
1.5E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 00 XXXXXXXXXXXXXXXXX
5.0E 00 X
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 00
MINIMUM = 1.50000E 00
GEOMETRIC MEAN = 1.96010E 00
GEOMETRIC DEVIATION = 1.30370E 00

FREQUENCY TABLE FOR COLUMN (S-CA %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E-02 - 5.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-02 - 8.3E-02 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-02 - 1.2E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-01 - 1.8E-01 | 3 | 3 | 4.29 | 4.29 |
| 1.8E-01 - 2.6E-01 | 2 | 5 | 2.86 | 7.14 |
| 2.6E-01 - 3.8E-01 | 13 | 18 | 18.57 | 25.71 |
| 3.8E-01 - 5.6E-01 | 24 | 42 | 34.29 | 60.00 |
| 5.6E-01 - 8.3E-01 | 16 | 58 | 22.86 | 82.86 |
| 8.3E-01 - 1.2E 00 | 4 | 62 | 5.71 | 88.57 |
| 1.2E 00 - 1.8E 00 | 5 | 67 | 7.14 | 95.71 |
| 1.8E 00 - 2.6E 00 | 3 | 70 | 4.29 | 100.00 |

HISTOGRAM FOR COLUMN 6 (S-CA %)

```
1.5E-01 XXXX
2.0E-01 XXX
3.0E-01 XXXXXXXXXXXXXXXXXX
5.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0E-01 XXXXXXXXXXXXXXXXXXXXXX
1.0E 00 XXXXXX
1.5E 00 XXXXXXX
2.0E 00 XXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 2.00000E 00
MINIMUM = 1.50000E-01
GEOMETRIC MEAN = 5.42596E-01
GEOMETRIC DEVIATION = 1.81431E 00

FREQUENCY TABLE FOR COLUMN (S-TI %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 1.8E-03 - 2.6E-03 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-03 - 3.8E-03 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-03 - 5.6E-03 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-03 - 8.3E-03 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-03 - 1.2E-02 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-02 - 1.8E-02 | 0 | 0 | 0.0 | 0.0 |
| 1.8E-02 - 2.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-02 - 3.8E-02 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-02 - 5.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-02 - 8.3E-02 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-02 - 1.2E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-01 - 1.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E-01 - 2.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-01 - 3.8E-01 | 4 | 4 | 5.71 | 5.71 |
| 3.8E-01 - 5.6E-01 | 31 | 35 | 44.29 | 50.00 |
| 5.6E-01 - 8.3E-01 | 26 | 61 | 37.14 | 87.14 |
| 8.3E-01 - 1.2E 00 | 8 | 69 | 11.43 | 98.57 |

HISTOGRAM FOR COLUMN 7 (S-TI %)

```
3.0E-01 XXXXX
5.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 00 XXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 1 | 69 |
| 0.0 | 0.0 | | | 0.0 | 1.43 | |

MAXIMUM = 1.00000E 00
MINIMUM = 3.00000E-01
GEOMETRIC MEAN = 5.97138E-01
GEOMETRIC DEVIATION = 1.33430E 00

FREQUENCY TABLE FOR COLUMN (S-MN )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 01 - 5.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 01 - 8.3E 01 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 01 - 1.2E 02 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 02 - 1.8E 02 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 02 - 2.6E 02 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 02 - 3.8E 02 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 02 - 5.6E 02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 02 - 8.3E 02 | 11 | 11 | 15.71 | 15.71 |
| 8.3E 02 - 1.2E 03 | 27 | 38 | 38.57 | 54.29 |
| 1.2E 03 - 1.8E 03 | 30 | 68 | 42.86 | 97.14 |
| 1.8E 03 - 2.6E 03 | 0 | 68 | 0.0 | 97.14 |
| 2.6E 03 - 3.8E 03 | 0 | 68 | 0.0 | 97.14 |
| 3.8E 03 - 5.6E 03 | 2 | 70 | 2.86 | 100.00 |

HISTOGRAM FOR COLUMN 8 (S-MN )

```
7.0E 02 XXXXXXXXXXXXXXX
1.0E 03 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5E 03 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 03
3.0E 03
5.0E 03 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 03
MINIMUM = 7.00000E 02
GEOMETRIC MEAN = 1.17785E 03
GEOMETRIC DEVIATION = 1.45275E 00

FREQUENCY TABLE FOR COLUMN (S-B )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 1 | 1 | 1.43 | 1.43 |
| 2.6E 01 - 3.8E 01 | 7 | 8 | 10.00 | 11.43 |
| 3.8E 01 - 5.6E 01 | 13 | 21 | 18.57 | 30.00 |
| 5.6E 01 - 8.3E 01 | 30 | 51 | 42.86 | 72.86 |
| 8.3E 01 - 1.2E 02 | 12 | 63 | 17.14 | 90.00 |
| 1.2E 02 - 1.8E 02 | 6 | 69 | 8.57 | 98.57 |
| 1.8E 02 - 2.6E 02 | 1 | 70 | 1.43 | 100.00 |

HISTOGRAM FOR COLUMN 12 (S-B )

```
2.0E 01 X
3.0E 01 XXXXXXXXXX
5.0E 01 XXXXXXXXXXXXXXXXXX
7.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 02 XXXXXXXXXXXXXXXXX
1.5E 02 XXXXXXXX
2.0E 02 X
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 2.00000E 02
MINIMUM = 2.00000E 01
GEOMETRIC MEAN = 6.83633E 01
GEOMETRIC DEVIATION = 1.57265E 00

FREQUENCY TABLE FOR COLUMN (S-BA )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 01 - 5.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 01 - 8.3E 01 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 01 - 1.2E 02 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 02 - 1.8E 02 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 02 - 2.6E 02 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 02 - 3.8E 02 | 4 | 4 | 5.71 | 5.71 |
| 3.8E 02 - 5.6E 02 | 8 | 12 | 11.43 | 17.14 |
| 5.6E 02 - 8.3E 02 | 55 | 67 | 78.57 | 95.71 |
| 8.3E 02 - 1.2E 03 | 1 | 68 | 1.43 | 97.14 |
| 1.2E 03 - 1.8E 03 | 2 | 70 | 2.86 | 100.00 |

HISTOGRAM FOR COLUMN 13 (S-BA )

```
3.0E 02 XXXXXX
5.0E 02 XXXXXXXXXXX
7.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 03 X
1.5E 03 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 03
MINIMUM = 3.00000E 02
GEOMETRIC MEAN = 6.59225E 02
GEOMETRIC DEVIATION = 1.30201E 00

FREQUENCY TABLE FOR COLUMN (S-BE )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E-01 - 1.2E 00 | 36 | 36 | 51.43 | 51.43 |
| 1.2E 00 - 1.8E 00 | 10 | 46 | 14.29 | 65.71 |
| 1.8E 00 - 2.6E 00 | 1 | 47 | 1.43 | 67.14 |

HISTOGRAM FOR COLUMN 14 (S-BE )

```
1.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5E 00 XXXXXXXXXXXXXX
2.0E 00 X
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 23 | 0 | 0 | 0 | 0 | 47 |
| 0.0 | 32.86 | | | 0.0 | 0.0 | |

MAXIMUM = 2.00000E 00
MINIMUM = 1.00000E 00
GEOMETRIC MEAN = 1.10630E 00
GEOMETRIC DEVIATION = 1.20816E 00

FREQUENCY TABLE FOR COLUMN (S-CO )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 00 - 8.3E 00 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 15 | 15 | 21.43 | 21.43 |
| 1.8E 01 - 2.6E 01 | 28 | 43 | 40.00 | 61.43 |
| 2.6E 01 - 3.8E 01 | 26 | 69 | 37.14 | 98.57 |
| 3.8E 01 - 5.6E 01 | 1 | 70 | 1.43 | 100.00 |

HISTOGRAM FOR COLUMN 17 (S-CO )

```
1.5E 01 XXXXXXXXXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
5.0E 01 X
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 01
MINIMUM = 1.50000E 01
GEOMETRIC MEAN = 2.21483E 01
GEOMETRIC DEVIATION = 1.33063E 00

FREQUENCY TABLE FOR COLUMN (S-CR )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 1 | 1 | 1.43 | 1.43 |
| 3.8E 01 - 5.6E 01 | 0 | 1 | 0.0 | 1.43 |
| 5.6E 01 - 8.3E 01 | 6 | 7 | 8.57 | 10.00 |
| 8.3E 01 - 1.2E 02 | 6 | 13 | 8.57 | 18.57 |
| 1.2E 02 - 1.8E 02 | 48 | 61 | 68.57 | 87.14 |
| 1.8E 02 - 2.6E 02 | 6 | 67 | 8.57 | 95.71 |
| 2.6E 02 - 3.8E 02 | 3 | 70 | 4.29 | 100.00 |

HISTOGRAM FOR COLUMN 18 (S-CR )

```
3.0E 01 X
5.0E 01
7.0E 01 XXXXXXXX
1.0E 02 XXXXXXXX
1.5E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 02 XXXXXXXX
3.0E 02 XXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 3.00000E 02
MINIMUM = 3.00000E 01
GEOMETRIC MEAN = 1.40038E 02
GEOMETRIC DEVIATION = 1.42542E 00

FREQUENCY TABLE FOR COLUMN (S-CU )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 00 - 8.3E 00 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 6 | 6 | 8.57 | 8.57 |
| 1.8E 01 - 2.6E 01 | 2 | 8 | 2.86 | 11.43 |
| 2.6E 01 - 3.8E 01 | 13 | 21 | 18.57 | 30.00 |
| 3.8E 01 - 5.6E 01 | 15 | 36 | 21.43 | 51.43 |
| 5.6E 01 - 8.3E 01 | 22 | 58 | 31.43 | 82.86 |
| 8.3E 01 - 1.2E 02 | 8 | 66 | 11.43 | 94.29 |
| 1.2E 02 - 1.8E 02 | 4 | 70 | 5.71 | 100.00 |

HISTOGRAM FOR COLUMN 19 (S-CU )

```
1.5E 01 XXXXXXXX
2.0E 01 XXX
3.0E 01 XXXXXXXXXXXXXXXXXX
5.0E 01 XXXXXXXXXXXXXXXXXXXXX
7.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 02 XXXXXXXXXXX
1.5E 02 XXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 02
MINIMUM = 1.50000E 01
GEOMETRIC MEAN = 5.11880E 01
GEOMETRIC DEVIATION = 1.82337E 00

FREQUENCY TABLE FOR COLUMN (S-NB )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 21 | 21 | 30.00 | 30.00 |
| 1.2E 01 - 1.8E 01 | 1 | 22 | 1.43 | 31.43 |

HISTOGRAM FOR COLUMN 22 (S-NB )

```
1.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5E 01 X
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 48 | 0 | 0 | 0 | 0 | 22 |
| 0.0 | 68.57 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 01
MINIMUM = 1.00000E 01
GEOMETRIC MEAN = 1.01859E 01
GEOMETRIC DEVIATION = 1.09046E 00

FREQUENCY TABLE FOR COLUMN (S-NI )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 00 - 8.3E 00 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 1 | 1 | 1.43 | 1.43 |
| 1.8E 01 - 2.6E 01 | 1 | 2 | 1.43 | 2.86 |
| 2.6E 01 - 3.8E 01 | 5 | 7 | 7.14 | 10.00 |
| 3.8E 01 - 5.6E 01 | 2 | 9 | 2.86 | 12.86 |
| 5.6E 01 - 8.3E 01 | 40 | 49 | 57.14 | 70.00 |
| 8.3E 01 - 1.2E 02 | 13 | 62 | 18.57 | 88.57 |
| 1.2E 02 - 1.8E 02 | 8 | 70 | 11.43 | 100.00 |

HISTOGRAM FOR COLUMN 23 (S-NI )

```
1.5E 01 X
2.0E 01 X
3.0E 01 XXXXXXX
5.0E 01 XXX
7.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 02 XXXXXXXXXXXXXXXXXX
1.5E 02 XXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 02
MINIMUM = 1.50000E 01
GEOMETRIC MEAN = 7.30970E 01
GEOMETRIC DEVIATION = 1.56724E 00

FREQUENCY TABLE FOR COLUMN (S-PB )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 2 | 2 | 2.86 | 2.86 |
| 1.2E 01 - 1.8E 01 | 17 | 19 | 24.29 | 27.14 |
| 1.8E 01 - 2.6E 01 | 16 | 35 | 22.86 | 50.00 |
| 2.6E 01 - 3.8E 01 | 19 | 54 | 27.14 | 77.14 |
| 3.8E 01 - 5.6E 01 | 6 | 60 | 8.57 | 85.71 |
| 5.6E 01 - 8.3E 01 | 3 | 63 | 4.29 | 90.00 |

HISTOGRAM FOR COLUMN 24 (S-PB )

```
1.0E 01 XXX
1.5E 01 XXXXXXXXXXXXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXX
5.0E 01 XXXXXXXX
7.0E 01 XXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 5 | 2 | 0 | 0 | 0 | 0 | 63 |
| 7.14 | 2.86 | | | 0.0 | 0.0 | |

MAXIMUM = 7.00000E 01
MINIMUM = 1.00000E 01
GEOMETRIC MEAN = 2.36956E 01
GEOMETRIC DEVIATION = 1.59265E 00

FREQUENCY TABLE FOR COLUMN (S-SC )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 00 - 8.3E 00 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 13 | 13 | 18.57 | 18.57 |
| 1.8E 01 - 2.6E 01 | 43 | 56 | 61.43 | 80.00 |
| 2.6E 01 - 3.8E 01 | 14 | 70 | 20.00 | 100.00 |

HISTOGRAM FOR COLUMN 26 (S-SC )

```
1.5E 01 XXXXXXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXXXXXXXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 3.00000E 01
MINIMUM = 1.50000E 01
GEOMETRIC MEAN = 2.05608E 01
GEOMETRIC DEVIATION = 1.24553E 00

FREQUENCY TABLE FOR COLUMN (S-SR )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 01 - 1.2E 02 | 7 | 7 | 10.00 | 10.00 |
| 1.2E 02 - 1.8E 02 | 27 | 34 | 38.57 | 48.57 |
| 1.8E 02 - 2.6E 02 | 19 | 53 | 27.14 | 75.71 |
| 2.6E 02 - 3.8E 02 | 10 | 63 | 14.29 | 90.00 |
| 3.8E 02 - 5.6E 02 | 5 | 68 | 7.14 | 97.14 |
| 5.6E 02 - 8.3E 02 | 1 | 69 | 1.43 | 98.57 |

HISTOGRAM FOR COLUMN 28 (S-SR )

```
1.0E 02 XXXXXXXXXX
1.5E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 02 XXXXXXXXXXXXXX
5.0E 02 XXXXXXX
7.0E 02 X
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 1 | 0 | 0 | 0 | 0 | 69 |
| 0.0 | 1.43 | | | 0.0 | 0.0 | |

MAXIMUM = 7.00000E 02
MINIMUM = 1.00000E 02
GEOMETRIC MEAN = 1.92237E 02
GEOMETRIC DEVIATION = 1.54589E 00

FREQUENCY TABLE FOR COLUMN (S-V )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 01 - 5.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 01 - 8.3E 01 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 01 - 1.2E 02 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 02 - 1.8E 02 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 02 - 2.6E 02 | 31 | 31 | 44.29 | 44.29 |
| 2.6E 02 - 3.8E 02 | 39 | 70 | 55.71 | 100.00 |

HISTOGRAM FOR COLUMN 29 (S-V )

```
2.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 3.00000E 02
MINIMUM = 2.00000E 02
GEOMETRIC MEAN = 2.50686E 02
GEOMETRIC DEVIATION = 1.22470E 00

FREQUENCY TABLE FOR COLUMN (S-Y )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 10 | 10 | 14.29 | 14.29 |
| 1.8E 01 - 2.6E 01 | 48 | 58 | 68.57 | 82.86 |
| 2.6E 01 - 3.8E 01 | 9 | 67 | 12.86 | 95.71 |
| 3.8E 01 - 5.6E 01 | 3 | 70 | 4.29 | 100.00 |

HISTOGRAM FOR COLUMN 31 (S-Y )

```
1.5E 01 XXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXXXXXXXX
5.0E 01 XXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 01
MINIMUM = 1.50000E 01
GEOMETRIC MEAN = 2.10315E 01
GEOMETRIC DEVIATION = 1.29646E 00

FREQUENCY TABLE FOR COLUMN (S-ZR )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 01 - 5.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 01 - 8.3E 01 | 1 | 1 | 1.43 | 1.43 |
| 8.3E 01 - 1.2E 02 | 15 | 16 | 21.43 | 22.86 |
| 1.2E 02 - 1.8E 02 | 34 | 50 | 48.57 | 71.43 |
| 1.8E 02 - 2.6E 02 | 11 | 61 | 15.71 | 87.14 |
| 2.6E 02 - 3.8E 02 | 9 | 70 | 12.86 | 100.00 |

HISTOGRAM FOR COLUMN 33 (S-ZR )

```
7.0E 01 X
1.0E 02 XXXXXXXXXXXXXXXXXXXX
1.5E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 02 XXXXXXXXXXXXXXX
3.0E 02 XXXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 3.00000E 02
MINIMUM = 7.00000E 01
GEOMETRIC MEAN = 1.55583E 02
GEOMETRIC DEVIATION = 1.41125E 00

STATISTICAL SUMMARY

IN THE COMPUTATIONS PERFORMED TO PRODUCE THE FOLLOWING TABLE OF GEOMETRIC MEANS AND DEVIATIONS, ALL ELEMENTS ARE IGNORED WHERE ONE OR MORE OF THE UNQUALIFIED DATA VALUES IS LESS THAN THE ANALYTICAL LIMIT OF DETECTION SPECIFIED ON INPUT OR WHERE ANY DATA VALUES ARE QUALIFIED WITH THE G (GREATER THAN) CODE. DATA VALUES QUALIFIED WITH B OR H ARE NOT USED IN THE COMPUTATIONS. WHERE NONE OF THE DATA VALUES FOR AN ELEMENT ARE QUALIFIED THE MEAN AND DEVIATION SHOULD BE THE SAME AS THOSE GIVEN IN THE PRECEDING SECTION. WHERE DATA ARE QUALIFIED WITH THE CODES N, L, OR T, THE ESTIMATES OF GEOMETRIC MEAN AND DEVIATION ARE BASED ON A METHOD BY A. J. COHEN FOR TREATING CENSORED DISTRIBUTIONS. THE APPLICATION OF THIS METHOD TO GEOCHEMICAL PROBLEMS IS DESCRIBED IN USGS PROFESSIONAL PAPER 574-B. THE ESTIMATES ARE UNBIASED IN A STRICT SENSE ONLY WHERE THE DATA ARE DERIVED FROM A LOGNORMAL PARENT POPULATION, BUT EXPERIMENTS HAVE SHOWN THAT LARGE DEPARTURES FROM THIS REQUIREMENT MAY NOT GREATLY INVALIDATE THE RESULTS ACCEPTANCE AND USE OF THE ESTIMATES, HOWEVER, IS THE RESPONSIBILITY OF THE INDIVIDUAL.

| ELEMENT | N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|---|
| S-FE % | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-MG % | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-CA % | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-TI % | 0 | 0 | 0 | 0 | 0 | 1 | 69 |
| S-MN | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-B | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-BA | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-BE | 0 | 23 | 0 | 0 | 0 | 0 | 47 |
| S-CO | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-CR | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-CU | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-NB | 0 | 48 | 0 | 0 | 0 | 0 | 22 |
| S-NI | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-PB | 5 | 2 | 0 | 0 | 0 | 0 | 63 |
| S-SC | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-SR | 0 | 1 | 0 | 0 | 0 | 0 | 69 |
| S-V | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-Y | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| S-ZR | 0 | 0 | 0 | 0 | 0 | 0 | 70 |
| AA-AU-P | 0 | 67 | 0 | 0 | 0 | 0 | 3 |
| AA-AU-SW | 0 | 0 | 0 | 54 | 0 | 0 | 16 |
| INST-HG | 0 | 0 | 0 | 0 | 0 | 0 | 70 |

| ELEMENT | GEOMETRIC MEAN | GEOMETRIC DEVIATION | REMARKS |
|---|---|---|---|
| S-FE % | 8.010501 | 1.35 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-MG % | 1.960104 | 1.30 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-CA % | 0.542596 | 1.81 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-TI % | ******** | ****** | 1 GREATER THAN VALUES. NO COMPUTATIONS. |
| S-MN | 1177.852783 | 1.45 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-B | 68.363190 | 1.57 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-BA | 659.223877 | 1.30 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-BE | 0.945145 | 1.33 | 23 NOT DETECTED, LESS THAN, OR TRACE VALUES. 47 REPORTED VALUES. |
| S-CO | 22.148285 | 1.33 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-CR | 140.038101 | 1.43 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-CU | 51.187836 | 1.82 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-NB | 7.318107 | 1.32 | 48 NOT DETECTED, LESS THAN, OR TRACE VALUES. 22 REPORTED VALUES. |
| S-NI | 73.096848 | 1.57 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-PB | 20.783188 | 1.81 | 7 NOT DETECTED, LESS THAN, OR TRACE VALUES. 63 REPORTED VALUES. |
| S-SC | 20.560715 | 1.25 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-SR | 189.449142 | 1.57 | 1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 69 REPORTED VALUES. |
| S-V | 250.685577 | 1.22 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-Y | 21.031479 | 1.30 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| S-ZR | 155.582092 | 1.41 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |
| AA-AU-P | ******** | ****** | COHEN'S TABLE EXCEEDED. H( 1.0) OR GAMMA( 0.3) GTR THAN ALLOW. NO COMPUTATIONS. |
| AA-AU-SW | 7.604230 | 1.60 | 70 SAMPLES AND 16 ANALYTICAL VALUES. |
| INST-HG | 0.378769 | 1.87 | 70 SAMPLES AND 70 ANALYTICAL VALUES. |

A470 GEOCHEMICAL SUMMARY - U S G S STATPAC (08/02/71) DATE 12/22/71

TABLE 3
TITLE
SEMI QUANT ROCK SAMPLES

## TABLE 3. SEMI-QUANTITIVE ROCK SAMPLES

| SAMPLE | MAP NO. | S-FE % | S-MG % | S-CA % | S-TI % | S-MN | S-AG | S-AS | S-B | S-BA | S-BE | S-CO | S-CR | S-CU | S-LA | S-MO | S-NB | S-NI |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BAN291 | 1r | 10.0000 | 5.0000 | 7.0000 | 1.0000 | 1500.0000 | 0.5000N | 200.0000N | 20.0000 | 100.0000 | 1.0000N | 30.0000 | 150.0000 | 70.0000 | 20.0000N | 5.0000L | 10.0000 | 70.0000 |
| BAN392 | 2r | 10.0000 | 2.0000 | 3.0000 | 0.7000 | 1500.0000 | 0.5000N | 200.0000N | 15.0000 | 700.0000 | 1.0000L | 15.0000 | 50.0000 | 20.0000 | 20.0000N | 5.0000 | 10.0000L | 30.0000 |
| BAN395 | 3r | 2.0000 | 0.5000 | 20.0000 | 0.1000 | 2000.0000 | 0.5000N | 200.0000N | 10.0000N | 150.0000 | 1.0000N | 5.0000N | 10.0000 | 5.0000N | 20.0000N | 5.0000N | 10.0000N | 5.0000L |
| BAN396 | 4r | 15.0000 | 3.0000 | 1.5000 | 1.0000 | 1500.0000 | 0.5000N | 200.0000N | 15.0000 | 700.0000 | 1.0000L | 30.0000 | 70.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000 | 20.0000 |
| BAN385 | 5r | 7.0000 | 3.0000 | 0.7000 | 0.5000 | 1000.0000 | 0.5000N | 200.0000N | 20.0000 | 1000.0000 | 1.0000L | 15.0000 | 150.0000 | 10.0000 | 20.0000N | 5.0000N | 10.0000L | 100.0000 |
| BAN400 | 6r | 7.0000 | 2.0000 | 0.1500 | 0.5000 | 700.0000 | 0.5000N | 200.0000N | 30.0000 | 500.0000 | 1.0000 | 15.0000 | 70.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 |
| BAN399 | 7r | 10.0000 | 3.0000 | 0.5000 | 0.7000 | 1500.0000 | 0.5000N | 200.0000N | 10.0000 | 300.0000 | 1.0000L | 20.0000 | 70.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000L | 30.0000 |
| BAN398 | 8r | 10.0000 | 2.0000 | 0.2000 | 0.7000 | 1000.0000 | 0.5000N | 200.0000N | 10.0000 | 200.0000 | 1.0000L | 30.0000 | 50.0000 | 30.0000 | 20.0000N | 5.0000L | 10.0000L | 30.0000 |
| BAN397 | 9r | 7.0000 | 1.5000 | 0.5000 | 0.7000 | 1500.0000 | 0.5000N | 200.0000N | 50.0000 | 700.0000 | 1.0000L | 20.0000 | 150.0000 | 15.0000 | 20.0000N | 5.0000N | 10.0000L | 70.0000 |
| BAN386 | 10r | 10.0000 | 1.5000 | 0.3000 | 0.3000 | 1500.0000 | 0.5000N | 200.0000N | 20.0000 | 500.0000 | 1.0000L | 20.0000 | 100.0000 | 7.0000 | 20.0000N | 5.0000L | 10.0000L | 70.0000 |
| BAN161 | 11r | 10.0000 | 5.0000 | 15.0000 | 0.5000 | 2000.0000 | 0.5000N | 200.0000N | 100.0000 | 700.0000 | 1.0000L | 10.0000 | 150.0000 | 5.0000L | 20.0000N | 5.0000L | 10.0000 | 70.0000 |
| BAN162 | 12r | 7.0000 | 3.0000 | 2.0000 | 0.7000 | 1000.0000 | 0.5000N | 200.0000N | 70.0000 | 700.0000 | 1.0000L | 20.0000 | 200.0000 | 50.0000 | 20.0000L | 50.0000 | 10.0000 | 70.0000 |
| BAN163 | 13r | 7.0000 | 10.0000G | 3.0000 | 0.7000 | 1500.0000 | 0.5000N | 200.0000N | 30.0000 | 700.0000 | 1.0000 | 20.0000 | 500.0000 | 30.0000 | 30.0000 | 5.0000N | 10.0000 | 70.0000 |
| BAN160 | 14r | 7.0000 | 3.0000 | 15.0000 | 0.1500 | 1500.0000 | 0.5000N | 200.0000N | 30.0000 | 150.0000 | 1.0000N | 5.0000L | 70.0000 | 300.0000 | 20.0000N | 7.0000 | 10.0000 | 30.0000 |
| BAN389 | 15r | 10.0000 | 3.0000 | 0.7000 | 0.7000 | 700.0000 | 0.5000N | 200.0000N | 50.0000 | 1500.0000 | 1.0000L | 30.0000 | 200.0000 | 70.0000 | 20.0000 | 5.0000L | 10.0000L | 150.0000 |
| BAN393 | 16r | 7.0000 | 3.0000 | 2.0000 | 0.5000 | 1000.0000 | 0.5000N | 200.0000N | 20.0000 | 1000.0000 | 1.0000L | 20.0000 | 150.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000L | 150.0000 |
| BAN390 | 17r | 5.0000 | 0.5000 | 0.1500 | 0.3000 | 500.0000 | 0.5000N | 200.0000N | 50.0000 | 500.0000 | 1.0000L | 10.0000 | 70.0000 | 15.0000 | 20.0000N | 5.0000L | 10.0000L | 50.0000 |
| BAN382 | 18r | 5.0000 | 1.5000 | 5.0000 | 0.5000 | 2000.0000 | 0.5000N | 200.0000N | 50.0000 | 500.0000 | 1.0000L | 20.0000 | 150.0000 | 15.0000 | 20.0000N | 5.0000N | 10.0000L | 50.0000 |
| BAN394 | 19r | 7.0000 | 2.0000 | 0.2000 | 0.5000 | 700.0000 | 0.5000N | 200.0000N | 30.0000 | 700.0000 | 1.0000L | 20.0000 | 100.0000 | 70.0000 | 20.0000N | 5.0000N | 10.0000L | 70.0000 |
| BAN388 | 20r | 7.0000 | 2.0000 | 0.5000 | 0.5000 | 2000.0000 | 0.5000N | 200.0000N | 30.0000 | 500.0000 | 1.0000L | 15.0000 | 30.0000 | 70.0000 | 20.0000N | 5.0000N | 10.0000L | 30.0000 |
| BAN384 | 21r | 7.0000 | 2.0000 | 0.1000 | 0.7000 | 700.0000 | 0.5000N | 200.0000N | 30.0000 | 1000.0000 | 1.0000L | 15.0000 | 150.0000 | 15.0000 | 20.0000N | 5.0000N | 10.0000L | 70.0000 |
| AKC053 | 22r | 10.0000 | 1.5000 | 0.7000 | 0.7000 | 300.0000 | 0.5000N | 200.0000N | 20.0000 | 700.0000 | 1.5000 | 30.0000 | 150.0000 | 150.0000 | 20.0000L | 5.0000L | 10.0000 | 100.0000 |
| AKC051 | 23r | 3.0000 | 1.0000 | 1.5000 | 0.2000 | 700.0000 | 0.5000N | 200.0000N | 30.0000 | 150.0000 | 1.5000 | 5.0000 | 10.0000 | 10.0000 | 20.0000N | 5.0000N | 10.0000L | 15.0000 |
| AKC052 | 24r | 5.0000 | 1.5000 | 2.0000 | 0.3000 | 2000.0000 | 0.5000N | 200.0000N | 15.0000 | 700.0000 | 1.5000 | 20.0000 | 70.0000 | 100.0000 | 20.0000L | 5.0000L | 10.0000 | 50.0000 |
| AKC054 | 25r | 7.0000 | 1.5000 | 0.1500 | 0.5000 | 500.0000 | 0.5000 | 200.0000N | 20.0000 | 1500.0000 | 1.5000 | 30.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 |
| AKC055 | 26r | 5.0000 | 1.5000 | 3.0000 | 0.5000 | 1500.0000 | 0.5000N | 200.0000N | 15.0000 | 500.0000 | 1.5000 | 20.0000 | 150.0000 | 100.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 |
| AKC056 | 27r | 2.0000 | 0.7000 | 1.0000 | 0.1500 | 150.0000 | 0.5000N | 200.0000N | 20.0000 | 300.0000 | 1.0000L | 5.0000 | 10.0000 | 5.0000 | 20.0000N | 5.0000N | 10.0000L | 20.0000 |
| AKC057 | 28r | 7.0000 | 0.7000 | 0.0500 | 0.5000 | 70.0000 | 1.0000 | 700.0000 | 200.0000 | 1000.0000 | 1.5000 | 15.0000 | 150.0000 | 70.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 |
| AKC049 | 29r | 7.0000 | 1.5000 | 0.7000 | 0.5000 | 300.0000 | 0.5000N | 200.0000N | 15.0000 | 1000.0000 | 1.5000 | 30.0000 | 100.0000 | 50.0000 | 20.0000L | 5.0000L | 10.0000 | 70.0000 |
| AKC059 | 30r | 10.0000 | 3.0000 | 1.0000 | 0.5000 | 700.0000 | 0.5000L | 200.0000N | 50.0000 | 1000.0000 | 1.0000 | 30.0000 | 150.0000 | 50.0000 | 20.0000 | 5.0000L | 10.0000 | 100.0000 |
| AKC058 | 31r | 1.5000 | 0.7000 | 0.2000 | 0.1500 | 150.0000 | 0.5000L | 200.0000L | 30.0000 | 500.0000 | 1.0000L | 5.0000L | 5.0000L | 7.0000 | 20.0000N | 5.0000N | 10.0000L | 5.0000L |
| AKC026 | 32r | 5.0000 | 3.0000 | 1.0000 | 0.3000 | 500.0000 | 0.5000N | 200.0000N | 30.0000 | 700.0000 | 1.0000 | 20.0000 | 150.0000 | 5.0000L | 20.0000N | 5.0000N | 10.0000N | 150.0000 |
| AKC027 | 33r | 5.0000 | 1.0000 | 2.0000 | 0.3000 | 2000.0000 | 0.5000N | 200.0000N | 10.0000 | 100.0000 | 1.0000N | 20.0000 | 30.0000 | 50.0000 | 20.0000N | 5.0000L | 10.0000N | 70.0000 |
| BAN028 | 34r | 1.0000 | 0.5000 | 0.0700 | 0.3000 | 150.0000 | 0.5000N | 200.0000N | 70.0000 | 100.0000 | 1.0000N | 5.0000L | 50.0000 | 70.0000 | 20.0000N | 5.0000N | 10.0000L | 15.0000 |

| SAMPLE | S-PB | S-SB | S-SC | S-SN | S-SR | S-V | S-W | S-Y | S-ZN | S-ZR | AA-AU-P | INST-HG |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| BAN291 | 10.0000N | 100.0000N | 50.0000 | 10.0000N | 700.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 70.0000 | 0.0200L | 0.2400 |
| BAN392 | 10.0000N | 100.0000N | 20.0000 | 10.0000N | 500.0000 | 300.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0200L | 0.4500 |
| BAN395 | 10.0000N | 100.0000N | 5.0000 | 10.0000N | 1000.0000 | 70.0000 | 50.0000N | 10.0000L | 200.0000N | 10.0000L | 0.0200L | 0.3500 |
| BAN396 | 10.0000L | 100.0000N | 30.0000 | 10.0000N | 700.0000 | 500.0000 | 50.0000N | 30.0000 | 200.0000N | 150.0000 | 0.0200L | 0.2600 |
| BAN385 | 10.0000 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0200L | 0.2800 |
| BAN400 | 15.0000 | 100.0000N | 15.0000 | 10.0000N | 100.0000L | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | 0.3000 |
| BAN399 | 10.0000L | 100.0000N | 20.0000 | 10.0000N | 300.0000 | 300.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0200L | 0.8000 |
| BAN398 | 10.0000L | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 20.0000 | 200.0000N | 100.0000 | 0.0200L | 1.0000 |
| BAN397 | 15.0000 | 100.0000N | 15.0000 | 10.0000N | 100.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.7000 |
| BAN386 | 10.0000L | 100.0000N | 15.0000 | 10.0000N | 100.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0200L | 0.6000 |
| BAN161 | 10.0000 | 100.0000N | 15.0000 | 10.0000N | 700.0000 | 150.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0200L | 0.0800 |
| BAN162 | 10.0000 | 100.0000N | 20.0000 | 10.0000N | 500.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.0900 |
| BAN163 | 15.0000 | 100.0000N | 20.0000 | 10.0000N | 500.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 200.0000 | 0.0200L | 0.2400 |
| BAN160 | 15.0000 | 100.0000N | 10.0000 | 10.0000N | 700.0000 | 70.0000 | 50.0000N | 20.0000 | 200.0000N | 70.0000 | 0.0200L | 0.0900 |
| BAN389 | 30.0000 | 100.0000N | 30.0000 | 10.0000N | 150.0000 | 300.0000 | 50.0000N | 30.0000 | 200.0000N | 150.0000 | 0.0200L | 0.4500 |
| BAN393 | 15.0000 | 100.0000N | 15.0000 | 10.0000N | 300.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | 0.2800 |
| BAN390 | 10.0000 | 100.0000N | 15.0000 | 10.0000N | 100.0000 | 150.0000 | 50.0000N | 10.0000 | 200.0000N | 150.0000 | 0.0200L | 0.2200 |
| BAN382 | 15.0000 | 100.0000N | 15.0000 | 10.0000N | 200.0000 | 150.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0200L | 0.6500 |
| BAN394 | 15.0000 | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 100.0000 | 0.0200L | 0.4000 |
| BAN388 | 10.0000 | 100.0000N | 15.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 10.0000 | 200.0000N | 70.0000 | 0.0200L | 0.5000 |
| BAN384 | 10.0000 | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 15.0000 | 200.0000N | 150.0000 | 0.0200L | 0.3500 |
| AKC053 | 10.0000L | 100.0000N | 20.0000 | 10.0000N | 200.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000L | 100.0000 | 0.0200L | 0.0 B |
| AKC051 | 15.0000 | 100.0000N | 5.0000 | 10.0000N | 700.0000 | 30.0000 | 50.0000N | 10.0000L | 200.0000N | 70.0000 | 0.0200L | 0.0 B |
| AKC052 | 10.0000N | 100.0000N | 15.0000 | 10.0000N | 300.0000 | 150.0000 | 50.0000N | 20.0000 | 200.0000L | 70.0000 | 0.0200L | 0.0 B |
| AKC054 | 10.0000L | 100.0000N | 15.0000 | 10.0000N | 100.0000L | 200.0000 | 50.0000N | 15.0000 | 200.0000L | 100.0000 | 0.0200L | 0.0 B |
| AKC055 | 10.0000L | 100.0000N | 15.0000 | 10.0000N | 300.0000 | 150.0000 | 50.0000N | 15.0000 | 300.0000 | 100.0000 | 0.0200L | 0.0 B |
| AKC056 | 15.0000 | 100.0000N | 5.0000L | 10.0000N | 500.0000 | 30.0000 | 50.0000N | 10.0000L | 200.0000N | 70.0000 | 0.0200L | 0.0 B |
| AKC057 | 10.0000 | 100.0000N | 15.0000 | 10.0000N | 100.0000L | 150.0000 | 50.0000 | 20.0000 | 200.0000N | 100.0000 | 0.4000 | 0.0 B |
| AKC049 | 10.0000N | 100.0000N | 15.0000 | 10.0000N | 150.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000N | 150.0000 | 0.0200L | 0.0 B |
| AKC059 | 20.0000 | 100.0000N | 20.0000 | 10.0000N | 100.0000 | 200.0000 | 50.0000N | 20.0000 | 200.0000L | 100.0000 | 0.0200L | 0.0 B |
| AKC058 | 15.0000 | 100.0000N | 5.0000N | 10.0000N | 200.0000 | 20.0000 | 50.0000N | 10.0000L | 200.0000L | 70.0000 | 0.0200L | 0.0 B |
| AKC026 | 10.0000N | 100.0000N | 10.0000 | 10.0000N | 500.0000 | 70.0000 | 50.0000N | 10.0000 | 200.0000N | 100.0000 | 0.0200L | 0.0 B |
| AKC027 | 50.0000 | 100.0000N | 10.0000 | 10.0000N | 200.0000 | 100.0000 | 50.0000N | 10.0000 | 200.0000L | 70.0000 | 0.0200L | 0.0 B |
| BAN028 | 10.0000N | 100.0000N | 5.0000 | 10.0000N | 100.0000L | 70.0000 | 50.0000N | 10.0000N | 200.0000L | 70.0000 | 0.0200L | 0.0700 |

FREQUENCY TABLE FOR COLUMN (S-FE %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E-02 - 5.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-02 - 8.3E-02 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-02 - 1.2E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-01 - 1.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E-01 - 2.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-01 - 3.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-01 - 5.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-01 - 8.3E-01 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-01 - 1.2E 00 | 1 | 1 | 2.94 | 2.94 |
| 1.2E 00 - 1.8E 00 | 1 | 2 | 2.94 | 5.88 |
| 1.8E 00 - 2.6E 00 | 2 | 4 | 5.88 | 11.76 |
| 2.6E 00 - 3.8E 00 | 1 | 5 | 2.94 | 14.71 |
| 3.8E 00 - 5.6E 00 | 6 | 11 | 17.65 | 32.35 |
| 5.6E 00 - 8.3E 00 | 13 | 24 | 38.24 | 70.59 |
| 8.3E 00 - 1.2E 01 | 9 | 33 | 26.47 | 97.06 |
| 1.2E 01 - 1.8E 01 | 1 | 34 | 2.94 | 100.00 |

HISTOGRAM FOR COLUMN 4 (S-FE %)

```
1.0E 00 XXX
1.5E 00 XXX
2.0E 00 XXXXXX
3.0E 00 XXX
5.0E 00 XXXXXXXXXXXXXXXXX
7.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.5E 01 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 01
MINIMUM = 1.00000E 00
GEOMETRIC MEAN = 6.06297E 00
GEOMETRIC DEVIATION = 1.81474E 00

FREQUENCY TABLE FOR COLUMN (S-MG %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 1.8E-02 - 2.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-02 - 3.8E-02 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-02 - 5.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-02 - 8.3E-02 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-02 - 1.2E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-01 - 1.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E-01 - 2.6E-01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-01 - 3.8E-01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-01 - 5.6E-01 | 3 | 3 | 8.82 | 8.82 |
| 5.6E-01 - 8.3E-01 | 3 | 6 | 8.82 | 17.65 |
| 8.3E-01 - 1.2E 00 | 2 | 8 | 5.88 | 23.53 |
| 1.2E 00 - 1.8E 00 | 8 | 16 | 23.53 | 47.06 |
| 1.8E 00 - 2.6E 00 | 6 | 22 | 17.65 | 64.71 |
| 2.6E 00 - 3.8E 00 | 9 | 31 | 26.47 | 91.18 |
| 3.8E 00 - 5.6E 00 | 2 | 33 | 5.88 | 97.06 |

HISTOGRAM FOR COLUMN 5 (S-MG %)

```
5.0E-01 XXXXXXXXX
7.0E-01 XXXXXXXXX
1.0E 00 XXXXXX
1.5E 00 XXXXXXXXXXXXXXXXXXXXXXXX
2.0E 00 XXXXXXXXXXXXXXXXXX
3.0E 00 XXXXXXXXXXXXXXXXXXXXXXXXXX
5.0E 00 XXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 1 | 33 |
| 0.0 | 0.0 | | | 0.0 | 2.94 | |

MAXIMUM = 5.00000E 00
MINIMUM = 5.00000E-01
GEOMETRIC MEAN = 1.69223E 00
GEOMETRIC DEVIATION = 1.88836E 00

FREQUENCY TABLE FOR COLUMN (S-CA %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E-02 - 5.6E-02 | 1 | 1 | 2.94 | 2.94 |
| 5.6E-02 - 8.3E-02 | 1 | 2 | 2.94 | 5.88 |
| 8.3E-02 - 1.2E-01 | 1 | 3 | 2.94 | 8.82 |
| 1.2E-01 - 1.8E-01 | 3 | 6 | 8.82 | 17.65 |
| 1.8E-01 - 2.6E-01 | 3 | 9 | 8.82 | 26.47 |
| 2.6E-01 - 3.8E-01 | 1 | 10 | 2.94 | 29.41 |
| 3.8E-01 - 5.6E-01 | 3 | 13 | 8.82 | 38.24 |
| 5.6E-01 - 8.3E-01 | 4 | 17 | 11.76 | 50.00 |
| 8.3E-01 - 1.2E 00 | 3 | 20 | 8.82 | 58.82 |
| 1.2E 00 - 1.8E 00 | 2 | 22 | 5.88 | 64.71 |
| 1.8E 00 - 2.6E 00 | 4 | 26 | 11.76 | 76.47 |
| 2.6E 00 - 3.8E 00 | 3 | 29 | 8.82 | 85.29 |
| 3.8E 00 - 5.6E 00 | 1 | 30 | 2.94 | 88.24 |
| 5.6E 00 - 8.3E 00 | 1 | 31 | 2.94 | 91.18 |
| 8.3E 00 - 1.2E 01 | 0 | 31 | 0.0 | 91.18 |
| 1.2E 01 - 1.8E 01 | 2 | 33 | 5.88 | 97.06 |
| 1.8E 01 - 2.6E 01 | 1 | 34 | 2.94 | 100.00 |

HISTOGRAM FOR COLUMN 6 (S-CA %)

```
5.0E-02 XXX
7.0E-02 XXX
1.0E-01 XXX
1.5E-01 XXXXXXXXX
2.0E-01 XXXXXXXXX
3.0E-01 XXX
5.0E-01 XXXXXXXXX
7.0E-01 XXXXXXXXXXXX
1.0E 00 XXXXXXXXX
1.5E 00 XXXXXX
2.0E 00 XXXXXXXXXXXX
3.0E 00 XXXXXXXXX
5.0E 00 XXX
7.0E 00 XXX
1.0E 01
1.5E 01 XXXXXX
2.0E 01 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 2.00000E 01
MINIMUM = 5.00000E-02
GEOMETRIC MEAN = 8.80142E-01
GEOMETRIC DEVIATION = 4.68242E 00

FREQUENCY TABLE FOR COLUMN (S-TI %)

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 1.8E-03 - 2.6E-03 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-03 - 3.8E-03 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-03 - 5.6E-03 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-03 - 8.3E-03 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-03 - 1.2E-02 | 0 | 0 | 0.0 | 0.0 |
| 1.2E-02 - 1.8E-02 | 0 | 0 | 0.0 | 0.0 |
| 1.8E-02 - 2.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 2.6E-02 - 3.8E-02 | 0 | 0 | 0.0 | 0.0 |
| 3.8E-02 - 5.6E-02 | 0 | 0 | 0.0 | 0.0 |
| 5.6E-02 - 8.3E-02 | 0 | 0 | 0.0 | 0.0 |
| 8.3E-02 - 1.2E-01 | 1 | 1 | 2.94 | 2.94 |
| 1.2E-01 - 1.8E-01 | 3 | 4 | 8.82 | 11.76 |
| 1.8E-01 - 2.6E-01 | 1 | 5 | 2.94 | 14.71 |
| 2.6E-01 - 3.8E-01 | 6 | 11 | 17.65 | 32.35 |
| 3.8E-01 - 5.6E-01 | 12 | 23 | 35.29 | 67.65 |
| 5.6E-01 - 8.3E-01 | 9 | 32 | 26.47 | 94.12 |
| 8.3E-01 - 1.2E 00 | 2 | 34 | 5.88 | 100.00 |

HISTOGRAM FOR COLUMN 7 (S-TI %)

```
1.0E-01 XXX
1.5E-01 XXXXXXXXX
2.0E-01 XXX
3.0E-01 XXXXXXXXXXXXXXXXX
5.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
7.0E-01 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 00 XXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 1.00000E 00
MINIMUM = 1.00000E-01
GEOMETRIC MEAN = 4.34321E-01
GEOMETRIC DEVIATION = 1.76488E 00

FREQUENCY TABLE FOR COLUMN (S-MN )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 01 - 5.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 01 - 8.3E 01 | 1 | 1 | 2.94 | 2.94 |
| 8.3E 01 - 1.2E 02 | 0 | 1 | 0.0 | 2.94 |
| 1.2E 02 - 1.8E 02 | 3 | 4 | 8.82 | 11.76 |
| 1.8E 02 - 2.6E 02 | 0 | 4 | 0.0 | 11.76 |
| 2.6E 02 - 3.8E 02 | 2 | 6 | 5.88 | 17.65 |
| 3.8E 02 - 5.6E 02 | 3 | 9 | 8.82 | 26.47 |
| 5.6E 02 - 8.3E 02 | 6 | 15 | 17.65 | 44.12 |
| 8.3E 02 - 1.2E 03 | 4 | 19 | 11.76 | 55.88 |
| 1.2E 03 - 1.8E 03 | 9 | 28 | 26.47 | 82.35 |
| 1.8E 03 - 2.6E 03 | 6 | 34 | 17.65 | 100.00 |

HISTOGRAM FOR COLUMN 8 (S-MN )

```
7.0E 01 XXX
1.0E 02
1.5E 02 XXXXXXXXX
2.0E 02
3.0E 02 XXXXXX
5.0E 02 XXXXXXXXX
7.0E 02 XXXXXXXXXXXXXXXXX
1.0E 03 XXXXXXXXXXXX
1.5E 03 XXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 03 XXXXXXXXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 2.00000E 03
MINIMUM = 7.00000E 01
GEOMETRIC MEAN = 8.09859E 02
GEOMETRIC DEVIATION = 2.42211E 00

FREQUENCY TABLE FOR COLUMN (S-B )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 3 | 3 | 8.82 | 8.82 |
| 1.2E 01 - 1.8E 01 | 5 | 8 | 14.71 | 23.53 |
| 1.8E 01 - 2.6E 01 | 7 | 15 | 20.59 | 44.12 |
| 2.6E 01 - 3.8E 01 | 9 | 24 | 26.47 | 70.59 |
| 3.8E 01 - 5.6E 01 | 5 | 29 | 14.71 | 85.29 |
| 5.6E 01 - 8.3E 01 | 2 | 31 | 5.88 | 91.18 |
| 8.3E 01 - 1.2E 02 | 1 | 32 | 2.94 | 94.12 |
| 1.2E 02 - 1.8E 02 | 0 | 32 | 0.0 | 94.12 |
| 1.8E 02 - 2.6E 02 | 1 | 33 | 2.94 | 97.06 |

HISTOGRAM FOR COLUMN 12 (S-B )

```
1.0E 01 XXXXXXXXX
1.5E 01 XXXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXX
5.0E 01 XXXXXXXXXXXXXXX
7.0E 01 XXXXXX
1.0E 02 XXX
1.5E 02
2.0E 02 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 1 | 0 | 0 | 0 | 0 | 0 | 33 |
| 2.94 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 2.00000E 02
MINIMUM = 1.00000E 01
GEOMETRIC MEAN = 2.80223E 01
GEOMETRIC DEVIATION = 1.97454E 00

FREQUENCY TABLE FOR COLUMN (S-BA )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 01 - 5.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 01 - 8.3E 01 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 01 - 1.2E 02 | 3 | 3 | 8.82 | 8.82 |
| 1.2E 02 - 1.8E 02 | 3 | 6 | 8.82 | 17.65 |
| 1.8E 02 - 2.6E 02 | 1 | 7 | 2.94 | 20.59 |
| 2.6E 02 - 3.8E 02 | 2 | 9 | 5.88 | 26.47 |
| 3.8E 02 - 5.6E 02 | 7 | 16 | 20.59 | 47.06 |
| 5.6E 02 - 8.3E 02 | 10 | 26 | 29.41 | 76.47 |
| 8.3E 02 - 1.2E 03 | 6 | 32 | 17.65 | 94.12 |
| 1.2E 03 - 1.8E 03 | 2 | 34 | 5.88 | 100.00 |

HISTOGRAM FOR COLUMN 13 (S-BA )

```
1.0E 02 XXXXXXXXX
1.5E 02 XXXXXXXXX
2.0E 02 XXX
3.0E 02 XXXXXX
5.0E 02 XXXXXXXXXXXXXXXXXXXXX
7.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 03 XXXXXXXXXXXXXXXXXX
1.5E 03 XXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 03
MINIMUM = 1.00000E 02
GEOMETRIC MEAN = 4.90420E 02
GEOMETRIC DEVIATION = 2.17398E 00

FREQUENCY TABLE FOR COLUMN (S-BE )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E-01 - 1.2E 00 | 4 | 4 | 11.76 | 11.76 |
| 1.2E 00 - 1.8E 00 | 7 | 11 | 20.59 | 32.35 |

HISTOGRAM FOR COLUMN 14 (S-BE )

```
1.0E 00 XXXXXXXXXXXX
1.5E 00 XXXXXXXXXXXXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 5 | 18 | 0 | 0 | 0 | 0 | 11 |
| 14.71 | 52.94 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 00
MINIMUM = 1.00000E 00
GEOMETRIC MEAN = 1.29437E 00
GEOMETRIC DEVIATION = 1.22699E 00

FREQUENCY TABLE FOR COLUMN (S-CO )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 2 | 2 | 5.88 | 5.88 |
| 5.6E 00 - 8.3E 00 | 0 | 2 | 0.0 | 5.88 |
| 8.3E 00 - 1.2E 01 | 2 | 4 | 5.88 | 11.76 |
| 1.2E 01 - 1.8E 01 | 6 | 10 | 17.65 | 29.41 |
| 1.8E 01 - 2.6E 01 | 12 | 22 | 35.29 | 64.71 |
| 2.6E 01 - 3.8E 01 | 8 | 30 | 23.53 | 88.24 |

HISTOGRAM FOR COLUMN 17 (S-CO )

```
5.0E 00 XXXXXX
7.0E 00
1.0E 01 XXXXXX
1.5E 01 XXXXXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXXXXXXXXXXXXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 1 | 3 | 0 | 0 | 0 | 0 | 30 |
| 2.94 | 8.82 | | | 0.0 | 0.0 | |

MAXIMUM = 3.00000E 01
MINIMUM = 5.00000E 00
GEOMETRIC MEAN = 1.83142E 01
GEOMETRIC DEVIATION = 1.59874E 00

FREQUENCY TABLE FOR COLUMN (S-CR )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 3 | 3 | 8.82 | 8.82 |
| 1.2E 01 - 1.8E 01 | 0 | 3 | 0.0 | 8.82 |
| 1.8E 01 - 2.6E 01 | 0 | 3 | 0.0 | 8.82 |
| 2.6E 01 - 3.8E 01 | 2 | 5 | 5.88 | 14.71 |
| 3.8E 01 - 5.6E 01 | 3 | 8 | 8.82 | 23.53 |
| 5.6E 01 - 8.3E 01 | 6 | 14 | 17.65 | 41.18 |
| 8.3E 01 - 1.2E 02 | 3 | 17 | 8.82 | 50.00 |
| 1.2E 02 - 1.8E 02 | 13 | 30 | 38.24 | 88.24 |
| 1.8E 02 - 2.6E 02 | 2 | 32 | 5.88 | 94.12 |
| 2.6E 02 - 3.8E 02 | 0 | 32 | 0.0 | 94.12 |
| 3.8E 02 - 5.6E 02 | 1 | 33 | 2.94 | 97.06 |

HISTOGRAM FOR COLUMN 18 (S-CR )

```
1.0E 01 XXXXXXXXX
1.5E 01
2.0E 01
3.0E 01 XXXXXX
5.0E 01 XXXXXXXXX
7.0E 01 XXXXXXXXXXXXXXXXXX
1.0E 02 XXXXXXXXX
1.5E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 02 XXXXXX
3.0E 02
5.0E 02 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 1 | 0 | 0 | 0 | 0 | 33 |
| 0.0 | 2.94 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 02
MINIMUM = 1.00000E 01
GEOMETRIC MEAN = 8.52432E 01
GEOMETRIC DEVIATION = 2.45696E 00

FREQUENCY TABLE FOR COLUMN (S-CU )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 1 | 1 | 2.94 | 2.94 |
| 5.6E 00 - 8.3E 00 | 2 | 3 | 5.88 | 8.82 |
| 8.3E 00 - 1.2E 01 | 2 | 5 | 5.88 | 14.71 |
| 1.2E 01 - 1.8E 01 | 7 | 12 | 20.59 | 35.29 |
| 1.8E 01 - 2.6E 01 | 1 | 13 | 2.94 | 38.24 |
| 2.6E 01 - 3.8E 01 | 2 | 15 | 5.88 | 44.12 |
| 3.8E 01 - 5.6E 01 | 5 | 20 | 14.71 | 58.82 |
| 5.6E 01 - 8.3E 01 | 7 | 27 | 20.59 | 79.41 |
| 8.3E 01 - 1.2E 02 | 2 | 29 | 5.88 | 85.29 |
| 1.2E 02 - 1.8E 02 | 1 | 30 | 2.94 | 88.24 |
| 1.8E 02 - 2.6E 02 | 0 | 30 | 0.0 | 88.24 |
| 2.6E 02 - 3.8E 02 | 1 | 31 | 2.94 | 91.18 |

HISTOGRAM FOR COLUMN 19 (S-CU )

```
5.0E 00 XXX
7.0E 00 XXXXXX
1.0E 01 XXXXXX
1.5E 01 XXXXXXXXXXXXXXXXXXXXX
2.0E 01 XXX
3.0E 01 XXXXXX
5.0E 01 XXXXXXXXXXXXXXX
7.0E 01 XXXXXXXXXXXXXXXXXXXXX
1.0E 02 XXXXXX
1.5E 02 XXX
2.0E 02
3.0E 02 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 1 | 2 | 0 | 0 | 0 | 0 | 31 |
| 2.94 | 5.88 | | | 0.0 | 0.0 | |

MAXIMUM = 3.00000E 02
MINIMUM = 5.00000E 00
GEOMETRIC MEAN = 3.26749E 01
GEOMETRIC DEVIATION = 2.73114E 00

FREQUENCY TABLE FOR COLUMN (S-NI )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 00 - 8.3E 00 | 0 | 0 | 0.0 | 0.0 |
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 2 | 2 | 5.88 | 5.88 |
| 1.8E 01 - 2.6E 01 | 2 | 4 | 5.88 | 11.76 |
| 2.6E 01 - 3.8E 01 | 5 | 9 | 14.71 | 26.47 |
| 3.8E 01 - 5.6E 01 | 3 | 12 | 8.82 | 35.29 |
| 5.6E 01 - 8.3E 01 | 14 | 26 | 41.18 | 76.47 |
| 8.3E 01 - 1.2E 02 | 3 | 29 | 8.82 | 85.29 |
| 1.2E 02 - 1.8E 02 | 3 | 32 | 8.82 | 94.12 |

HISTOGRAM FOR COLUMN 23 (S-NI )

```
1.5E 01 XXXXXX
2.0E 01 XXXXXX
3.0E 01 XXXXXXXXXXXXXXX
5.0E 01 XXXXXXXXX
7.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 02 XXXXXXXXX
1.5E 02 XXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 2 | 0 | 0 | 0 | 0 | 32 |
| 0.0 | 5.88 | | | 0.0 | 0.0 | |

MAXIMUM = 1.50000E 02
MINIMUM = 1.50000E 01
GEOMETRIC MEAN = 5.54157E 01
GEOMETRIC DEVIATION = 1.87227E 00

FREQUENCY TABLE FOR COLUMN (S-PB )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 7 | 7 | 20.59 | 20.59 |
| 1.2E 01 - 1.8E 01 | 10 | 17 | 29.41 | 50.00 |
| 1.8E 01 - 2.6E 01 | 1 | 18 | 2.94 | 52.94 |
| 2.6E 01 - 3.8E 01 | 1 | 19 | 2.94 | 55.88 |
| 3.8E 01 - 5.6E 01 | 1 | 20 | 2.94 | 58.82 |

HISTOGRAM FOR COLUMN 24 (S-PB )

```
1.0E 01 XXXXXXXXXXXXXXXXXXXXX
1.5E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 01 XXX
3.0E 01 XXX
5.0E 01 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 7 | 7 | 0 | 0 | 0 | 0 | 20 |
| 20.59 | 20.59 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 01
MINIMUM = 1.00000E 01
GEOMETRIC MEAN = 1.45177E 01
GEOMETRIC DEVIATION = 1.50182E 00

FREQUENCY TABLE FOR COLUMN (S-SC )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 3.8E 00 - 5.6E 00 | 3 | 3 | 8.82 | 8.82 |
| 5.6E 00 - 8.3E 00 | 0 | 3 | 0.0 | 8.82 |
| 8.3E 00 - 1.2E 01 | 3 | 6 | 8.82 | 17.65 |
| 1.2E 01 - 1.8E 01 | 15 | 21 | 44.12 | 61.76 |
| 1.8E 01 - 2.6E 01 | 8 | 29 | 23.53 | 85.29 |
| 2.6E 01 - 3.8E 01 | 2 | 31 | 5.88 | 91.18 |
| 3.8E 01 - 5.6E 01 | 1 | 32 | 2.94 | 94.12 |

HISTOGRAM FOR COLUMN 26 (S-SC )

```
5.0E 00 XXXXXXXXX
7.0E 00
1.0E 01 XXXXXXXXX
1.5E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXX
5.0E 01 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 1 | 1 | 0 | 0 | 0 | 0 | 32 |
| 2.94 | 2.94 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 01
MINIMUM = 5.00000E 00
GEOMETRIC MEAN = 1.51787E 01
GEOMETRIC DEVIATION = 1.61827E 00

FREQUENCY TABLE FOR COLUMN (S-SR )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 01 - 1.2E 02 | 4 | 4 | 11.76 | 11.76 |
| 1.2E 02 - 1.8E 02 | 4 | 8 | 11.76 | 23.53 |
| 1.8E 02 - 2.6E 02 | 7 | 15 | 20.59 | 44.12 |
| 2.6E 02 - 3.8E 02 | 4 | 19 | 11.76 | 55.88 |
| 3.8E 02 - 5.6E 02 | 5 | 24 | 14.71 | 70.59 |
| 5.6E 02 - 8.3E 02 | 5 | 29 | 14.71 | 85.29 |
| 8.3E 02 - 1.2E 03 | 1 | 30 | 2.94 | 88.24 |

HISTOGRAM FOR COLUMN 28 (S-SR )

```
1.0E 02 XXXXXXXXXXXX
1.5E 02 XXXXXXXXXXXX
2.0E 02 XXXXXXXXXXXXXXXXXXXXX
3.0E 02 XXXXXXXXXXXX
5.0E 02 XXXXXXXXXXXXXXX
7.0E 02 XXXXXXXXXXXXXXX
1.0E 03 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 4 | 0 | 0 | 0 | 0 | 30 |
| 0.0 | 11.76 | | | 0.0 | 0.0 | |

MAXIMUM = 1.00000E 03
MINIMUM = 1.00000E 02
GEOMETRIC MEAN = 2.80548E 02
GEOMETRIC DEVIATION = 2.00890E 00

FREQUENCY TABLE FOR COLUMN (S-V )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 1 | 1 | 2.94 | 2.94 |
| 2.6E 01 - 3.8E 01 | 2 | 3 | 5.88 | 8.82 |
| 3.8E 01 - 5.6E 01 | 0 | 3 | 0.0 | 8.82 |
| 5.6E 01 - 8.3E 01 | 4 | 7 | 11.76 | 20.59 |
| 8.3E 01 - 1.2E 02 | 1 | 8 | 2.94 | 23.53 |
| 1.2E 02 - 1.8E 02 | 6 | 14 | 17.65 | 41.18 |
| 1.8E 02 - 2.6E 02 | 14 | 28 | 41.18 | 82.35 |
| 2.6E 02 - 3.8E 02 | 5 | 33 | 14.71 | 97.06 |
| 3.8E 02 - 5.6E 02 | 1 | 34 | 2.94 | 100.00 |

HISTOGRAM FOR COLUMN 29 (S-V )

```
2.0E 01 XXX
3.0E 01 XXXXXX
5.0E 01
7.0E 01 XXXXXXXXXXXX
1.0E 02 XXX
1.5E 02 XXXXXXXXXXXXXXXXXX
2.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 02 XXXXXXXXXXXXXXX
5.0E 02 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0.0 | 0.0 | | | 0.0 | 0.0 | |

MAXIMUM = 5.00000E 02
MINIMUM = 2.00000E 01
GEOMETRIC MEAN = 1.50040E 02
GEOMETRIC DEVIATION = 2.03854E 00

FREQUENCY TABLE FOR COLUMN (S-Y )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 4 | 4 | 11.76 | 11.76 |
| 1.2E 01 - 1.8E 01 | 12 | 16 | 35.29 | 47.06 |
| 1.8E 01 - 2.6E 01 | 10 | 26 | 29.41 | 76.47 |
| 2.6E 01 - 3.8E 01 | 3 | 29 | 8.82 | 85.29 |

HISTOGRAM FOR COLUMN 31 (S-Y )

```
1.0E 01 XXXXXXXXXXXX
1.5E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
2.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
3.0E 01 XXXXXXXXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 1 | 4 | 0 | 0 | 0 | 0 | 29 |
| 2.94 | 11.76 | | | 0.0 | 0.0 | |

MAXIMUM = 3.00000E 01
MINIMUM = 1.00000E 01
GEOMETRIC MEAN = 1.68275E 01
GEOMETRIC DEVIATION = 1.35177E 00

FREQUENCY TABLE FOR COLUMN (S-ZR )

| LIMITS LOWER - UPPER | FREQ | FREQ CUM | PERCENT FREQ | PERCENT FREQ CUM |
|---|---|---|---|---|
| 8.3E 00 - 1.2E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.2E 01 - 1.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 1.8E 01 - 2.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 2.6E 01 - 3.8E 01 | 0 | 0 | 0.0 | 0.0 |
| 3.8E 01 - 5.6E 01 | 0 | 0 | 0.0 | 0.0 |
| 5.6E 01 - 8.3E 01 | 9 | 9 | 26.47 | 26.47 |
| 8.3E 01 - 1.2E 02 | 15 | 24 | 44.12 | 70.59 |
| 1.2E 02 - 1.8E 02 | 8 | 32 | 23.53 | 94.12 |
| 1.8E 02 - 2.6E 02 | 1 | 33 | 2.94 | 97.06 |

HISTOGRAM FOR COLUMN 33 (S-ZR )

```
7.0E 01 XXXXXXXXXXXXXXXXXXXXXXXXXX
1.0E 02 XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
1.5E 02 XXXXXXXXXXXXXXXXXXXXXXXX
2.0E 02 XXX
```

| N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|
| 0 | 1 | 0 | 0 | 0 | 0 | 33 |
| 0.0 | 2.94 | | | 0.0 | 0.0 | |

MAXIMUM = 2.00000E 02
MINIMUM = 7.00000E 01
GEOMETRIC MEAN = 1.02226E 02
GEOMETRIC DEVIATION = 1.35303E 00

STATISTICAL SUMMARY

IN THE COMPUTATIONS PERFORMED TO PRODUCE THE FOLLOWING TABLE OF GEOMETRIC MEANS AND DEVIATIONS, ALL ELEMENTS ARE IGNORED WHERE ONE OR MORE OF THE UNQUALIFIED DATA VALUES IS LESS THAN THE ANALYTICAL LIMIT OF DETECTION SPECIFIED ON INPUT OR WHERE ANY DATA VALUES ARE QUALIFIED WITH THE G (GREATER THAN) CODE. DATA VALUES QUALIFIED WITH B OR H ARE NOT USED IN THE COMPUTATIONS. WHERE NONE OF THE DATA VALUES FOR AN ELEMENT ARE QUALIFIED THE MEAN AND DEVIATION SHOULD BE THE SAME AS THOSE GIVEN IN THE PRECEDING SECTION. WHERE DATA ARE QUALIFIED WITH THE CODES N, L, OR T, THE ESTIMATES OF GEOMETRIC MEAN AND DEVIATION ARE BASED ON A METHOD BY A. J. COHEN FOR TREATING CENSORED DISTRIBUTIONS. THE APPLICATION OF THIS METHOD TO GEOCHEMICAL PROBLEMS IS DESCRIBED IN USGS PROFESSIONAL PAPER 574-B. THE ESTIMATES ARE UNBIASED IN A STRICT SENSE ONLY WHERE THE DATA ARE DERIVED FROM A LOGNORMAL PARENT POPULATION, BUT EXPERIMENTS HAVE SHOWN THAT LARGE DEPARTURES FROM THIS REQUIREMENT MAY NOT GREATLY INVALIDATE THE RESULTS ACCEPTANCE AND USE OF THE ESTIMATES, HOWEVER, IS THE RESPONSIBILITY OF THE INDIVIDUAL.

| ELEMENT | N | L | H | B | T | G | ANALYTICAL VALUES |
|---|---|---|---|---|---|---|---|
| S-FE % | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| S-MG % | 0 | 0 | 0 | 0 | 0 | 1 | 33 |
| S-CA % | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| S-TI % | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| S-MN | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| S-AG | 30 | 2 | 0 | 0 | 0 | 0 | 2 |
| S-B | 1 | 0 | 0 | 0 | 0 | 0 | 33 |
| S-BA | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| S-BE | 5 | 18 | 0 | 0 | 0 | 0 | 11 |
| S-CO | 1 | 3 | 0 | 0 | 0 | 0 | 30 |
| S-CR | 0 | 1 | 0 | 0 | 0 | 0 | 33 |
| S-CU | 1 | 2 | 0 | 0 | 0 | 0 | 31 |
| S-LA | 24 | 7 | 0 | 0 | 0 | 0 | 3 |
| S-MO | 13 | 18 | 0 | 0 | 0 | 0 | 3 |
| S-NI | 0 | 2 | 0 | 0 | 0 | 0 | 32 |
| S-PB | 7 | 7 | 0 | 0 | 0 | 0 | 20 |
| S-SC | 1 | 1 | 0 | 0 | 0 | 0 | 32 |
| S-SR | 0 | 4 | 0 | 0 | 0 | 0 | 30 |
| S-V | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| S-Y | 1 | 4 | 0 | 0 | 0 | 0 | 29 |
| S-ZR | 0 | 1 | 0 | 0 | 0 | 0 | 33 |
| INST-HG | 0 | 0 | 0 | 12 | 0 | 0 | 22 |

| ELEMENT | GEOMETRIC MEAN | GEOMETRIC DEVIATION | REMARKS |
|---|---|---|---|
| S-FE % | 6.062967 | 1.81 | 34 SAMPLES AND 34 ANALYTICAL VALUES. |
| S-MG % | ******** | ****** | 1 GREATER THAN VALUES. NO COMPUTATIONS. |
| S-CA % | 0.880142 | 4.68 | 34 SAMPLES AND 34 ANALYTICAL VALUES. |
| S-TI % | 0.434321 | 1.76 | 34 SAMPLES AND 34 ANALYTICAL VALUES. |
| S-MN | 809.856689 | 2.42 | 34 SAMPLES AND 34 ANALYTICAL VALUES. |
| S-AG | ******** | ****** | COHEN'S TABLE EXCEEDED. H( 0.9) OR GAMMA( 0.6) GTR THAN ALLOW. NO COMPUTATIONS. |
| S-B | 26.794037 | 2.05 | 1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 33 REPORTED VALUES. |
| S-BA | 490.418945 | 2.17 | 34 SAMPLES AND 34 ANALYTICAL VALUES. |
| S-BE | 0.646039 | 1.81 | 23 NOT DETECTED, LESS THAN, OR TRACE VALUES. 11 REPORTED VALUES. |
| S-CO | 14.694991 | 2.12 | 4 NOT DETECTED, LESS THAN, OR TRACE VALUES. 30 REPORTED VALUES. |
| S-CR | 78.785034 | 2.71 | 1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 33 REPORTED VALUES. |
| S-CU | 25.806793 | 3.42 | 3 NOT DETECTED, LESS THAN, OR TRACE VALUES. 31 REPORTED VALUES. |
| S-LA | ******** | ****** | COHEN'S TABLE EXCEEDED. H( 0.9) OR GAMMA( 0.9) GTR THAN ALLOW. NO COMPUTATIONS. |
| S-MO | ******** | ****** | COHEN'S TABLE EXCEEDED. H( 0.9) OR GAMMA( 1.2) GTR THAN ALLOW. NO COMPUTATIONS. |
| S-NI | 46.573380 | 2.52 | 2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 32 REPORTED VALUES. |
| S-PB | 9.523208 | 1.89 | 14 NOT DETECTED, LESS THAN, OR TRACE VALUES. 20 REPORTED VALUES. |
| S-SC | 13.822161 | 1.82 | 2 NOT DETECTED, LESS THAN, OR TRACE VALUES. 32 REPORTED VALUES. |
| S-SR | 231.265259 | 2.34 | 4 NOT DETECTED, LESS THAN, OR TRACE VALUES. 30 REPORTED VALUES. |
| S-V | 150.039642 | 2.04 | 34 SAMPLES AND 34 ANALYTICAL VALUES. |
| S-Y | 14.712771 | 1.54 | 5 NOT DETECTED, LESS THAN, OR TRACE VALUES. 29 REPORTED VALUES. |
| S-ZR | 94.635406 | 1.71 | 1 NOT DETECTED, LESS THAN, OR TRACE VALUES. 33 REPORTED VALUES. |
| INST-HG | 0.302653 | 2.12 | 34 SAMPLES AND 22 ANALYTICAL VALUES. |

# RECONNAISSANCE GEOLOGIC MAP AND GEOCHEMICAL ANALYSES OF STREAM– SEDIMENT AND ROCK SAMPLES OF THE ANCHORAGE A–6 QUADRANGLE, ALASKA

by

Sandra H. B. Clark and Martha E. Yount

1972