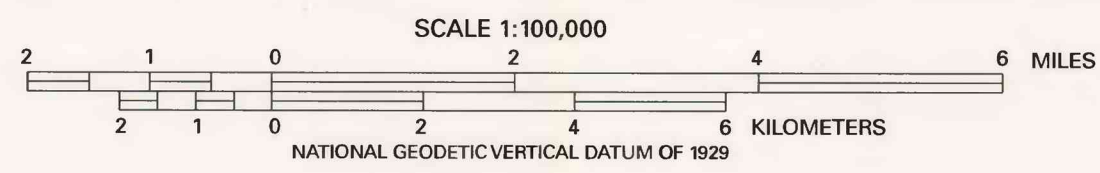


Base from U.S. Geological Survey digital data 1:100,000, Webster, 1985; Sisseton, 1979
Universal Transverse Mercator projection zone 14
North American Horizontal Datum 1927

- EXPLANATION**
- WAUBAY LAKES CHAIN BASIN BOUNDARY
 - SUBBASIN BOUNDARY
 - WAUBAY NATIONAL WILDLIFE REFUGE BOUNDARY
 - OUTLET FROM BASIN

- LAKE EXTENT FOR INDICATED EXCEEDANCE PROBABILITY, CONDITIONAL FREQUENCY ANALYSIS**
- 50 percent
 - 10 percent
 - 4 percent
 - 2 percent
 - 1 percent
 - 0.2 percent

| LAKE NAME AND NUMBER | LAKE ELEVATION, IN FEET ABOVE SEA LEVEL, FOR INDICATED EXCEEDANCE PROBABILITY | | | | | |
|----------------------|---|------------|-----------|-----------|-----------|-------------|
| | 50 percent | 10 percent | 4 percent | 2 percent | 1 percent | 0.2 percent |
| Bitter Lake (1) | 1,784.6 | 1,796.2 | 1,803.0 | 1,806.7 | 1,809.3 | 1,813.5 |
| Blue Dog Lake (2) | 1,800.6 | 1,804.0 | 1,806.8 | 1,808.8 | 1,810.9 | 1,813.5 |
| Enemy Swim Lake (3) | 1,852.2 | 1,854.0 | 1,854.4 | 1,854.8 | 1,855.1 | 1,855.9 |
| Hillebrands Lake (4) | 1,794.0 | 1,804.0 | 1,806.9 | 1,808.9 | 1,811.0 | 1,813.6 |
| Minnewasta Lake (5) | 1,795.3 | 1,804.0 | 1,806.8 | 1,808.8 | 1,810.9 | 1,813.5 |
| Pickeral Lake (6) | 1,845.2 | 1,845.6 | 1,845.8 | 1,846.1 | 1,846.3 | 1,846.7 |
| Rush Lake (7) | 1,798.7 | 1,804.0 | 1,806.8 | 1,808.8 | 1,810.9 | 1,813.5 |
| Spring Lake (8) | 1,794.0 | 1,804.0 | 1,806.9 | 1,808.9 | 1,811.0 | 1,813.6 |
| Swan Pond (9) | 1,794.0 | 1,804.0 | 1,806.9 | 1,808.9 | 1,811.0 | 1,813.6 |
| Waubay Lake (10) | 1,794.0 | 1,804.0 | 1,806.9 | 1,808.8 | 1,811.0 | 1,813.5 |



Lake-Level Frequency Analysis for the Waubay Lakes Chain, Northeastern South Dakota

By
Colin A. Niehus, Aldo V. Vecchia, and Ryan F. Thompson
1999