



State of Idaho
DEPARTMENT OF WATER RESOURCES

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CECIL D. ANDRUS
GOVERNOR

R. KEITH HIGGINSON
DIRECTOR

September 23, 1993

Jeff Brower
EGG Idaho
P.O. Box 1625
Idaho Falls, ID 83415-7129

Dear Jeff:

Enclosed are ET data in inches from the Hydromet station at Aberdeen for the period June 24, 1993 thru September 20, 1993. The Wright-Penman ET values are based upon hourly readings of solar radiation, air temperature, relative humidity and wind run and are widely accepted as a reliable indicator of the potential water loss that could occur to the atmosphere. These reference ET values are multiplied by the appropriate coefficient to estimate reservoir evaporation. For Aberdeen this coefficient is 0.86.

Applying the estimated evaporation at Aberdeen to the Mackay reservoir requires a downward adjustment to reflect the cooler temperatures, less wind and higher elevation of the Mackay reservoir site. Based upon 10 years of overlapping pan evaporation data (1974-1983) at Mackay and Aberdeen Experiment Station a factor of 0.91 was derived using monthly totals at each site. The correlation was only fair with Aberdeen explaining about 55 per cent of the variance of the Mackay data. Thus the Mackay Reservoir evaporation can be estimated as $0.78 (0.86 * 0.91)$ times the Aberdeen Experiment Station values.

The first 9 characters in the data file are the station identification number for the Mackay Reservoir. This number is followed by the year and the julian date. The final field are the ET values at Aberdeen in inches.

Feel free to contact me if you have any questions.

Sincerely,

A handwritten signature in cursive script, appearing to read 'George'.

George Austiguy EIT

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