



State of Idaho
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A. KENNETH DUNN
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ADMINISTRATOR'S MEMORANDUM

TO: Regional Offices and Water Allocation Section
FROM: Norman C. Young *NCY*
DATE: January 26, 1987
RE: Annual Volume Usage in U.S. Forest Service Campgrounds

License Processing No. 4

The purpose of this memorandum is to provide guidelines for estimating annual volume for water rights filed by U.S. Forest Service for domestic use in their campgrounds. The following guidelines should only be used when no specific information was obtained in the field examination process.

Most campgrounds using groundwater install hand-operated pumps which have a capacity of about 1 gpm. The campground usage varies but most are designed to meet a peak use of 100 persons/campground. The average season of use according to the Forest Service planners is 180 days. The estimated range of usage is 500 to 650 gallons/day/campground to as high as 10 gallons/day/person.

Using the above estimates, the annual campground groundwater usage is:

$$\frac{10 \text{ gallons}}{\text{day/person}} \times \frac{180 \text{ days}}{\text{season}} \times 100 \text{ persons} = \frac{180,000 \text{ gallons}}{\text{season}}$$
$$= \frac{180,000}{325,850} = 0.55 \text{ af}$$

Since 0.55 af is so close to the annual volume used for the standard single in-house domestic usage, 0.6 af/season should be used on U.S. Forest Service and BLM water rights.