

Memorandum

SEP 5 1978

To : John Ellison
Region 3

Date: August 31, 1978

From : **Department of Fish and Game** ~ Fisheries Management, Menlo Park

Subject: Streamflow Recommendations for Select Marin County Streams

Per your request, the following is a summary of streamflow recommendations for select Marin County streams we discussed earlier this month.

Pine Gulch Creek: SH and SS Use

In reference to diversion proposals by Bolinas Community Public Utility District, we are on record as recommending an instream flow requirement of 0.5 CFS during the low-flow season in the lower reach of Pine Gulch Creek. Bypass flow recommendations for the winter/spring months have not been formulated. However, based on transect studies on similar streams, I suspect a winter bypass of 7 to 10 CFS would be necessary for SS and SH use.

Therefore, until such time as instream flow requirements are empirically determined for lower Pine Gulch Creek, we should recommend the following minimum flow schedule:

1. From the first major storm on or after November 1 through March 31, bypass 10 CFS, or the natural flow if less;
2. From April 1 through May 31, bypass 3 CFS, or the natural flow if less;
3. From June 1 to the first major storm on or after November 1, bypass 0.5 CFS, or the natural flow if less.

Fish Hatchery Creek: Resident RT Use

In reference to water application protests, we have recommended a year-around instream flow need of 0.5 CFS to provide the sustenance requirements of resident RT in this small stream.

Redwood Creek: SH and SS Use

We have not formulated instream flow needs for this stream. However, based on personal observations and transect work on similar stream channels, I. can present a subjective recommendation.

Therefore, until such time as instream flow requirements are empirically determined for the mid- and lower reaches of Redwood Creek, we should recommend the following minimum flow schedule:

1. From the first major storm on or after November 1 through March 31, Bypass 7 CFS, or the natural flow if less;
2. From April 1 through May 31, bypass 3 CFS, or the natural flow if less;
3. From June 1 to the first major storm on or after November 1, bypass 1 CFS, or the natural flow if less.

Walker Creek: SS and SH Restoration

The Marin Municipal Water District's Soulajule Reservoir project includes flow releases to restore SS and SH runs in downstream Walker Creek. Flow release schedules are the subject of a cooperative agreement between the MMWD and DFG. Flow releases will maintain Walker Creek flows (as measured at the USGS gauge above Chileno Creek confluence) of 20 CFS during the winter and 5 CFS during the summer/fall months. During dry years, there is a reduction in flow augmentation. The full agreement is on file in the Yountville office if details are needed.

Lagunitas Creek: SS and SH Use

We are currently negotiating with MMWD for Lagunitas Creek flow enhancement in reference to the proposed MMWD enlargement of Kent Reservoir. I believe the final product will be a cooperative agreement for the maintenance of Lagunitas Creek flows of 10 CFS during the winter and 3 CFS during the summer/fall period, with a special dry-year term. Maintaining these base flows would be an enhancement over current conditions.

I hope this information has answered your questions and will be of use. If you have need of further information, please give me a call.



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