

**IDAHO FISH & GAME**

97 Highway 93 North
PO Box 1336
Salmon, Idaho 83467

Dirk Kempthorne/Governor
Steve Huffaker/ Director

October 10, 2002

Mr. Bob Foster
Sr. Water Rights Agent
IDWR
206 Van Dreff, Suite B
Salmon, ID 83467

Dear Bob:

Subject: Headgates in the Pahsimeroi Basin

In response to your October 7 letter, you are correct that headgate installations do not have to be coordinated with fish screen installations. Our program has installed many headgates in the Pahsimeroi in conjunction with screen installations because it is highly desirable to have functional headgates for maintaining screens. However, when headgates are installed before fish screens, we are able to design the screens to fit the field conditions.

Flow measuring devices can be a complicating factor for fish screen designs, and we take every opportunity to work with irrigators to insure that new flow measuring devices do not create unacceptable tailwater conditions for our screens. High tailwater can prevent paddle wheels from operating properly. When we begin designing at a site with a flow measuring device, we need the documentation on flows and water surface elevations to properly site our screens and not affect the proper operation of the measuring device.

At this time we are working on three screen designs in the Pahsimeroi that will either eliminate or include new headgates. Those diversions are PBSC-06, where a new headgate will be incorporated in the point-of-diversion screen, and PBSC-07/08. This second site is a consolidation that will eliminate the need for a headgate on the PBSC-07 diversion, and a new headgate structure is planned for the PBSC-08 diversion. A flow measuring structure is also planned at PBSC-07/08, but not at PBSC-06. The contract that includes these sites is planned for construction in the spring of 2003.

In addition to the current projects, a listing of Pahsimeroi basin diversions where our program has completed work is attached. You may consider these past projects "done" by our program. A number of other sites between and including P-09 to P-13 are under consideration, but firm plans have not been made and these sites are not on our schedule for the next year.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lynn Stratton".

Lynn Stratton
Screen Program Coordinator

enclosure

Leaving Idaho's Wildlife Legacy Better Than We Found It

IDFG Historical Records for Pahsimeroi Basin
10/10/02

Site	Contract No.	Design Flow (cfs)	No. of Bays	Drum Diameter, inches	Drum length per bay, feet	Drum drive (E=electric, P=paddle)	Comments
P-02/03	1996-97	9.6	1	30	12	P	
P-04	1996-97	8.8	2	18	10	P	
P-05	1998-99	23	3	30	10	P	
P-06	1997-98	na	na	na	na	na	steel headgate
P-06	1997-98	na	na	na	na	na	rock diversion
P-06	1996-97	11.95	2	18	12	P	
P-07	1996-97	19.2	3	24	10	P	
P-08	1996-97	16	2	24	12	P	
PBSC-01	1996-97	26	3	36	10	P	
PBSC-02	1996-97	15	2	24	12	P	
PBSC-03	2002	27.54	3	36	na	na	metal headgate
PBSC-03	2002	na	na	na	na	na	parshall flume & ditch work
PBSC-03 flume	2002	na	na	na	na	na	
PBSC-04	2002	5	1	18	12	P	
PBSC-04	2002	na	na	na	na	na	metal headgate
PBSC-05	2002	5	1	18	12	P	
PBSC-05	2002	na	na	na	na	na	metal headgate
Totals to Date		167.09	23				