From:	Eben Ray <huntgold@yahoo.com>
Sent:	Tuesday, April 16, 2013 4:27 PM
To:	Sen Olsen; Sen Dingfelder; Lutman Jennifer; Sen Hansell; Sen Hass; Sen Ferrioli
Subject:	Applegate river water usage for sheep hearing 4/15/2013

Eben Ray 4/16/2013   Please make this part of the public record. For SB838 and SB401.

Dear Senators
Statements made at the hearing on SB401 and SB838 about sheep and water needs.
Remove a dredge from the river and let drip onto a plastic sheet then pour off the water in to a measuring cup, less then 1 cup add appr. amount of water residue left on plastic and about 1 cup of water removed from river. Assuming that dredge was not alowed to drip dry on river bank and water was taken home.
2100 dredges in the state appr. per year. Put all the dredges in to the Apple gate river for the whole season!
1 cup = 8 oz
2100 dredges appr. per info presented at hearing.
90 day work window per ESH work time. Assuming every dredge worked and was removed from river everyday.
2100 x 90 = 189000 x 8 =1512000 ounces / 33.81 = 44721 liters

1 adult sheep on grass lands needs from 2 - 6 liters water a day.
1 ewe with lamp 4-10.5 liters a day
200 x 2 = 400 liters a day
200 x 10.5 = 2100 liters a day x 90 = 189000 liters
200 sheep consumption 400 to 2100 liters a day

1 liter = 33.81 ounces

189000 - 44721 =144279 liter difference
ON August 30th 2012 flow was 300 cubic ft. a secound
28.35 liters per cubic ft. x 300 cubic ft per secound = 8505 liters a secound
189000 / 8505 = 22.22 secounds to supply drinking water for the sheep in the same 90 day window.
44721 / 8505 = 5.26 secounds to produce water lost by every dredge in state of oregon for whole season! If every dredge worked and was removed every day!
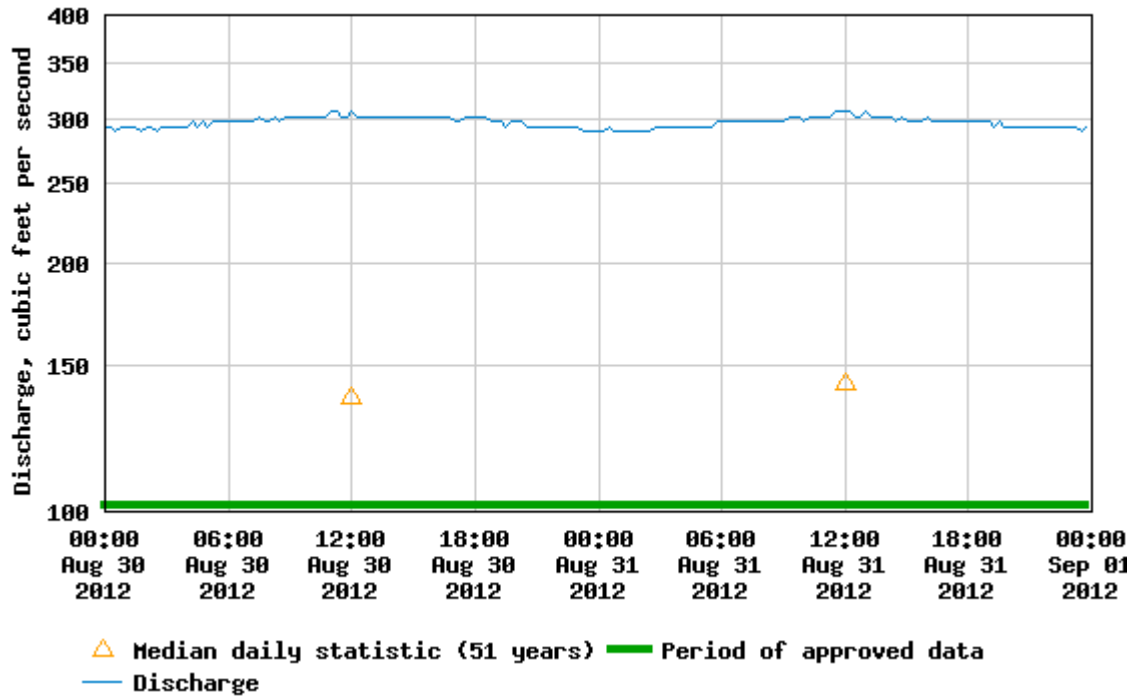
200 x 2liters x 365 = 146000 liter per year for sheep to
200 x 10.5liters x 365 = 766500 liters per year for sheep

  Discharge, cubic feet per second

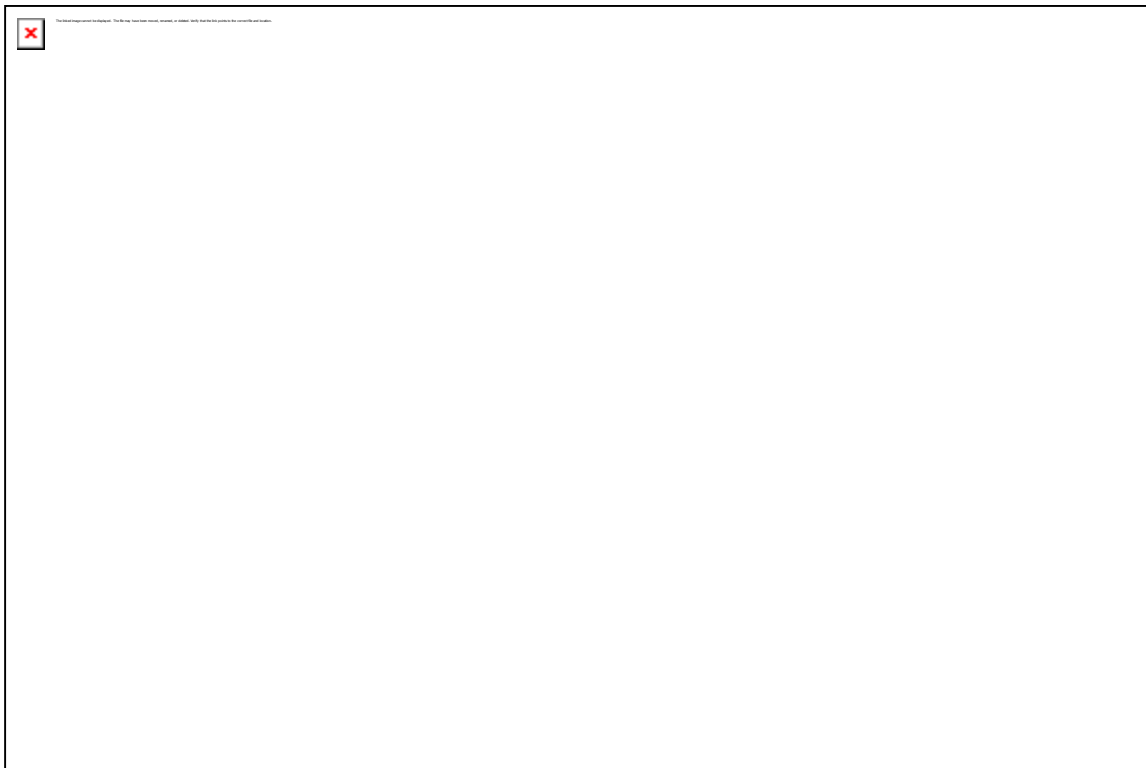   Most recent instantaneous value: 579   04-16-2013 15:15 PDT

USGS 14369500 APPLEGATE RIVER NEAR WILDERVILLE, OR

Legend:
△ Median daily statistic (51 years) ▬ Period of approved data
— Discharge

Discharge, cubic feet per second

Most recent instantaneous value: 579   04-16-2013 15:15 PDT

7.48 gallons in a cubic ft. 3.79 liters per gallon.
7.48 x 3.79 = 28.35 liters per cubic ft.

Eben Ray
"WE THE PEOPLE WILL be HEARD and RECKONED WITH"

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