

MEMORANDUM

Date: August 24, 2010
To: Water Right File 75-7672
From: cpadilla
Re: License Memo

Volume

The volume is based on the following:

The table Water for Livestock Out of Stream diversion located in the field examiners notebook reflects a volume of 1.8 afa for 135 range cattle.

The attached sheet, Table⁷~~4~~, shows that horses can consume up to 13 gpm. Based on this information the volumes calculate as follows:

↳ average

$13 \text{ gpm} \times 14 \text{ horses} \times 365 \text{ days} = (66430 \text{ gallons/year}) / 325850 = 0.2 \text{ afa} + 1.8 \text{ afa for range cattle} = 2 \text{ afa}$

The wildlife volume is recommended as being equal to the stockwater and not additive per departments approach on quantifying wildlife use.

Place of Use Overlap
None

Point of Diversion

The field examiner reported the pod in the NWNESE of Sec 11. However, his map has the pod in the NENWSE. I believe that the map depicts the map correctly and will use that legal description.

Table 7. Water requirements of various classes of horses.

Class	Estimated Water Consumption
	(gal/day)
Maintenance, 1100 lbs, thermoneutral environment	6-8 gallons
Maintenance, 1100 lbs, warm environment	8-15 gallons
Lactating Mare, 1100 lbs	10-15 gallons
Working Horse, 1100 lbs, moderate work	10-12 gallons
Working Horse, 1100 lbs, moderate work, warm environment	12-18 gallons
Weanling, 650 lbs, thermoneutral environment	6-8 gallons

Adapted from Lawrence (1998).