

MEMORANDUM

Date: March 04, 2013
To: Water Right File 2-7400
From: shemenway
Re: CFS Determination

Physical Measurement (calculation found in the 6/6/1996 field examination report):
36 (9/64)-inch nozzles = 0.30 cfs

Theoretical:
 $(8.8 \times 7.5 \text{ Hp} \times 0.7 \text{ eff}) / [40 \text{ ft lift} + (41 \text{ psi} \times 2.31)] = 0.34 \text{ cfs}$

File Review:

Water right 2-2063 was licensed for 3.0 acres with a total diversion rate of 0.03 cfs, which was an insufficient amount of water to irrigate the 3.0 acres. Water right 2-7400 was permitted for 0.30 cfs, but during the 6/6/1996 beneficial use field examination, it was determined that both water rights 2-7400 and 2-2063 share the same POD and distribution system for the combined 6.3 acres irrigated. For this reason, it is recommended that a combined limit be the 6.3 acres, and to achieve 0.02 cfs per acre, water right 2-7400 would be recommended at ~~0.03 cfs/acre~~. (6.3 acres X 0.02 cfs = 0.13 cfs total).

2-2063 3.0 acres	0.03 cfs
2-7400 ~~3.3~~ acres 6.3	0.10 cfs
Total 6.3 acres Limit	

RECOMMEND: irrigation ~~3.3~~ ^{6.3} acres at ~~0.03~~ ^{0.02} cfs = 0.10 cfs.
Combined limits of 2-7400 and 2-2063 not to exceed 6.3 acres.

CLS
3-5-13