

2003
Attachment 7: Calculations of Return Flows from Bureau of Reclamation Canals

Col 1	Col 2	Col 3	Col 4	Col 5	Col 6	Col 7	Col 8	Col 9	Col 10	Col 11
Canal	Canal Diversion	Spill to Waste-Way	Field Deliveries	Canal Loss	Average Field Loss Factor	Field Loss	Total Loss from District	Percent Field and Canal Loss That Returns to the Stream	Total return to Stream from Canal and Field Loss	Return as Percent of Canal Diversion
Name Canal	Headgate Diversion	Sum of measured spills to river	Sum of Deliveries to the field	Col 2 - Col 4	1 -Weighted Average Efficiency of Application System for the District*	Col 4 x Col 6	Col 5 + Col 7	Estimated Percent Loss*	Col 8 x Col 9	Col 10/Col 2
Example	100	5	60	40	30%	18	58	82%	48	48%
Culbertson	8674		2441	6233	30%	732	6965	82%	5712	66%
Culbertson Extension	0		0	0	30%	0	0	82%	0	100%
Meeker - Driftwood	0		0	0	30%	0	0	82%	0	100%
Red Willow	0		0	0	30%	0	0	82%	0	100%
Bartley	0		0	0	30%	0	0	82%	0	100%
Cambridge	21964		11304	10660	30%	3391	14051	82%	11522	52%
Naponee	0		0	0	35%	0	0	82%	0	100%
Franklin	0		0	0	35%	0	0	82%	0	100%
Franklin Pump	0		0	0	35%	0	0	82%	0	100%
Almena	0		0	0	30%	0	0	82%	0	100%
Superior	5800		1457	4343	31%	452	4795	82%	3932	68%
Nebraska Courtland	0		0	0	23%	0	0	82%	0	100%
Courtland Canal Above Lovewell (KS)	3268		144	3124	23%	33	3157	82%	2589	79%
Courtland Canal Below Lovewell	30134		15456	14678	23%	3555	18233	82%	14951	50%

* The average field efficiencies for each district and percent loss that returns to the stream may be reviewed and, if necessary, changed by the RRCA to improve the accuracy of the estimates.