

## CRAB CREEK BASIN

## Crab Creek Seepage Investigations

A series of discharge measurements were made September 8-10 on Crab Creek, some of its tributaries and several irrigation returns at and above the gage at Crab Creek near Moses Lake (12467000) above Moses Lake at river mile 63.0 to study the gains and losses on Crab Creek. The reach that was covered is 82.1 miles long. River mile of irrigation returns is at the confluence of the return with Crab Creek.

[--, indicates no data; cond., conductance]

Crab Creek mile	Stream	Location	Measured discharge (ft <sup>3</sup> /s)	Date	Gain or loss	Water temperature (°C)	Specific conductance (µS/cm)
145.1	Crab Creek	SE¼NE¼ sec. 22, T.21N., R.36E., at State Route 23 near Sprague	1.96	9/9	--	8.9	358
137.3	Crab Creek	Gaging station at Rocky Ford Road near Ritzville (12464770)	10.6	9/9	+8.6	12.7	371
142.7	Coal Creek	Gaging station at Mohler (12464800)	0.22	9/9	--	12.8	462
127.8	Coal Creek	NW¼SW¼ sec. 6, T. 21 N., R.34 E., above railroad bridge crossing near Odessa	0	9/9	-0.22	16.2	485
125.8	Confluence of Coal Creek and Crab Creek						
125.4	Crab Creek	SE¼SW¼ sec. 12, T. 21 N., R.33E., downstream of Sylvan Lake near Odessa (12464810)	0.00	9/9	-10.6	--	--
111.5	Crab Creek	Gaging station at Irby (12465000)	4.60	9/9	+4.6	16.2	485
103.5	Crab Creek	SE¼SE¼ sec. 12, T.22N., R.30E., at Marlin	0.00	9/9	-4.6	--	--
96.9	Crab Creek	NE¼SW¼ sec. 12, T.22N., R.29E., above Wilson Creek near Wilson Creek	0.00	9/9	0.00	--	--
119.6	Wilson Creek	Gaging station below Corbett Draw near Almira (12465400)	1.84	9/10	--	11.4	639
97.7	Wilson Creek	SW¼NE¼ sec. 6, T.22N., R.30E., at discontinued gaging station at Wilson Creek (12465500)	0.00	9/9	-1.84	--	--
96.6	Confluence of Wilson Creek and Crab Creek						
91.1	Crab Creek	SW¼NE¼ sec. 6, T.22N., R.29E., above Brook Lake near Stratford	0.00	9/9	0.00	--	--
87.2	Crab Creek	NE¼NE¼ sec. 10, T.22N., R.28E., at Stratford Road at Stratford	0.00	9/9	0.00	--	--
80.35	Irrigation Return	SW¼SE¼ sec. 23, T.22N., R.27E., W3EWW at Road 20 near Adrian	<sup>1</sup> 2.57	9/9	--	<sup>1</sup> 16.7	<sup>1</sup> 140
80.3	Crab Creek	NE¼NE¼sec. 26, T.22N., R.27E., at Road 20 near Adrian	0.024	9/9	*	20.5	134
77.8	Irrigation Return	Center of SE¼ sec. 35, T.22N., R.27E., W3W1WW above Willow Lake near Soap Lake	<sup>2</sup> 1.98	9/9	--	<sup>1</sup> 13.7	<sup>1</sup> 96.7
74.7	Crab Creek	SW¼NW¼ sec. 18, T.21N., R.28E., below Willow Lake near Ephrata	2.35	9/9	+0.35	16.2	702
67.3	Irrigation Return	SE¼SE¼ sec. 9, T.20N., R.28E., EL16GWW at Road 10 NE near Moses Lake	<sup>1</sup> 4.42	9/8	--	19.3	133
66.9	Crab Creek	NE¼SW¼ sec. 10, T.20N., R.28E., above Road 10 NE at Gloyd	0.00	9/9	-6.77	--	--
66.6	Irrigation Return	NE¼SW¼ sec. 10, T.20N., R.28E., East Low Return above Road 10 NE, west of Stratford Road	<sup>1</sup> 43.0	9/9	--	<sup>1</sup> 13.2	<sup>1</sup> 501
66.4	Irrigation Return	NE¼NW¼ sec. 14, T.20N., R.28E., DE214 below Road 10 NE, east of Stratford Road	<sup>1</sup> 5.44	9/9	--	<sup>1</sup> 14.3	<sup>1</sup> 522
66.4	Irrigation Return	NW¼SW¼ sec. 11, T.20N., R.28E., East Low Return above Road 10 NE, east of Stratford Road	<sup>1</sup> 6.19	9/9	--	<sup>1</sup> 14.2	<sup>1</sup> 377
65.6	Crab Creek	NE¼SE¼ sec. 15, T.20N., R.28E., at Stratford Road near Moses Lake	30.1	9/9	-24.5	15.4	451
63.2	Irrigation Return	SW¼SW¼ sec. 25, T.20N., R.28E., DE217 at Road 7 NE, east of Stratford Road	<sup>1</sup> 4.29	9/9	--	<sup>1</sup> 14.8	<sup>1</sup> 621
63.0	Crab Creek	Gaging Station near Moses Lake (12467000)	54.6	9/10	+20.2	12.1	555

\*Just prior to the discharge measurement at Crab Creek at Road 20 NE near Adrian, the irrigation return W3EWW at Road 20 NE near Adrian was shut down to near zero flow.

<sup>1</sup>Measurement or estimate made by Pat Poper, U.S. Bureau of Reclamation, Ephrata, WA office.