

Irrigation Water Requirements

Crop Data Summaries

Crook County, Wyoming

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Irrigation Water Requirements Crop Data Summary

Job: Sundance	Crop: Alfalfa Hay
Location: Sundance	County: Crook, WY
By: L Cornia	Date: 01/17/07
Weather Station: SUNDANCE	Sta No: WY8705
Latitude: 4424 Longitude: 10423	Elevation: 4750 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 2 inches
Crop Curve: Blaney Criddle Perennial Crop	Estimated carryover moisture used at season:
Begin Growth: 5/9 End Growth: 9/30	Begin: 1 inches End: 1 inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1)		Normal Year 50% Chance (1)		Average Daily ETc inches	Peak Daily ETPk inches
		Effective Precipitation inches	Net Irrigation Requirements inches (2)	Effective Precipitation inches	Net Irrigation Requirements inches (2)		
January	0.00	0.00	0.00	0.00	0.00	0.00	
February	0.00	0.00	0.00	0.00	0.00	0.00	
March	0.00	0.00	0.00	0.00	0.00	0.00	
April	0.00	0.00	0.00	0.00	0.00	0.00	
May	2.22	0.67	0.55	0.89	0.33	0.10	
June	6.33	0.76	5.57	1.01	5.32	0.21	0.24
July	8.35	0.63	7.73	0.83	7.52	0.27	0.32
August	6.93	0.47	6.45	0.63	6.30	0.22	0.26
September	3.66	0.49	2.17	0.65	2.01	0.12	
October	0.00	0.00	0.00	0.00	0.00	0.00	
November	0.00	0.00	0.00	0.00	0.00	0.00	
December	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	27.49	3.02	22.47	4.01	21.48		

(1) For 80 percent occurrence, growing season effective precipitation will be equaled or exceeded 8 out of 10 years. For 50 percent chance occurrence, effective precipitation will be equaled or exceeded 1 out of 2 years.

(2) Net irrigation requirements is adjusted for carryover moisture used at the beginning of the season and carryover moisture used at the end of the growing season.

(3) ET Evapotranspiration) is adjusted upwards 10% per 1000 meters above sea level.

Date: 1/22/2007

Irrigation Water Requirements Crop Data Summary

Job: Sundance	Crop: Barley
Location: Sundance	County: Crook, WY
By: L Cornia	Date: 01/17/07
Weather Station: SUNDANCE	Sta No: WY8705
Latitude: 4424 Longitude: 10423	Elevation: 4750 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 2 inches
Crop Curve: Blaney Criddle Annual Crop	Estimated carryover moisture used at season:
Begin Growth: 4/24 End Growth: 9/1	Begin: 1 inches End: 1 inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1)		Normal Year 50% Chance (1)		Average Daily ETc inches	Peak Daily ETPk inches
		Effective Precipitation inches	Net Irrigation Requirements inches (2)	Effective Precipitation inches	Net Irrigation Requirements inches (2)		
January	0.00	0.00	0.00	0.00	0.00	0.00	
February	0.00	0.00	0.00	0.00	0.00	0.00	
March	0.00	0.00	0.00	0.00	0.00	0.00	
April	0.17	0.10	0.00	0.13	0.00	0.02	
May	2.24	0.91	0.40	1.21	0.07	0.07	0.08
June	6.49	0.77	5.73	1.02	5.47	0.22	0.25
July	8.65	0.64	8.01	0.85	7.80	0.28	0.34
August	0.00	0.00	0.00	0.00	0.00	0.00	
September	0.07	0.01	0.00	0.02	0.00	0.07	
October	0.00	0.00	0.00	0.00	0.00	0.00	
November	0.00	0.00	0.00	0.00	0.00	0.00	
December	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	17.62	2.43	14.14	3.23	13.34		

(1) For 80 percent occurrence, growing season effective precipitation will be equaled or exceeded 8 out of 10 years. For 50 percent chance occurrence, effective precipitation will be equaled or exceeded 1 out of 2 years.

(2) Net irrigation requirements is adjusted for carryover moisture used at the beginning of the season and carryover moisture used at the end of the growing season.

(3) ET Evapotranspiration) is adjusted upwards 10% per 1000 meters above sea level.

Date: 1/22/2007

Irrigation Water Requirements Crop Data Summary

Job: Sundance	Crop: Grass Hay
Location: Sundance	County: Crook, WY
By: L Cornia	Date: 01/17/07
Weather Station: SUNDANCE	Sta No: WY8705
Latitude: 4424 Longitude: 10423	Elevation: 4750 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 2 inches
Crop Curve: Blaney Criddle Perennial Crop	Estimated carryover moisture used at season: Begin: 1 inches End: 1 inches
Begin Growth: 4/24 End Growth: 10/17	

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1)		Normal Year 50% Chance (1)		Average Daily ETc inches	Peak Daily ETPk inches
		Effective Precipitation inches	Net Irrigation Requirements inches (2)	Effective Precipitation inches	Net Irrigation Requirements inches (2)		
January	0.00	0.00	0.00	0.00	0.00	0.00	
February	0.00	0.00	0.00	0.00	0.00	0.00	
March	0.00	0.00	0.00	0.00	0.00	0.00	
April	0.47	0.14	0.00	0.19	0.00	0.07	
May	3.12	0.95	1.50	1.27	1.14	0.10	0.11
June	5.17	0.71	4.46	0.95	4.23	0.17	0.19
July	6.94	0.58	6.36	0.77	6.17	0.22	0.26
August	5.92	0.45	5.47	0.59	5.32	0.19	0.22
September	3.31	0.49	2.57	0.65	2.31	0.11	0.12
October	1.04	0.29	0.00	0.39	0.00	0.06	
November	0.00	0.00	0.00	0.00	0.00	0.00	
December	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	25.98	3.61	20.36	4.80	19.17		

(1) For 80 percent occurrence, growing season effective precipitation will be equaled or exceeded 8 out of 10 years. For 50 percent chance occurrence, effective precipitation will be equaled or exceeded 1 out of 2 years.

(2) Net irrigation requirements is adjusted for carryover moisture used at the beginning of the season and carryover moisture used at the end of the growing season.

(3) ET Evapotranspiration) is adjusted upwards 10% per 1000 meters above sea level.

Date: 1/22/2007

Irrigation Water Requirements Crop Data Summary

Job: Sundance	Crop: Oats
Location: Sundance	County: Crook, WY
By: L Cornia	Date: 01/17/07
Weather Station: SUNDANCE	Sta No: WY8705
Latitude: 4424 Longitude: 10423	Elevation: 4750 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 2 inches
Crop Curve: Blaney Criddle Annual Crop	Estimated carryover moisture used at season:
Begin Growth: 4/24 End Growth: 9/1	Begin: 1 inches End: 1 inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1)		Normal Year 50% Chance (1)		Average Daily ETc inches	Peak Daily ETPk inches
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January	0.00	0.00	0.00	0.00	0.00	0.00	
February	0.00	0.00	0.00	0.00	0.00	0.00	
March	0.00	0.00	0.00	0.00	0.00	0.00	
April	0.17	0.10	0.00	0.13	0.00	0.02	
May	2.24	0.91	0.40	1.21	0.07	0.07	0.08
June	6.49	0.77	5.73	1.02	5.47	0.22	0.25
July	8.65	0.64	8.01	0.85	7.80	0.28	0.34
August	0.00	0.00	0.00	0.00	0.00	0.00	
September	0.07	0.01	0.00	0.02	0.00	0.07	
October	0.00	0.00	0.00	0.00	0.00	0.00	
November	0.00	0.00	0.00	0.00	0.00	0.00	
December	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	17.62	2.43	14.14	3.23	13.34		

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Date: 1/22/2007

Irrigation Water Requirements Crop Data Summary

Job: Sundance	Crop: Pasture (grass)
Location: Sundance	County: Crook, WY
By: L Cornia	Date: 01/17/07
Weather Station: SUNDANCE	Sta No: WY8705
Latitude: 4424 Longitude: 10423	Elevation: 4750 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 2 inches
Crop Curve: Blaney Criddle Perennial Crop	Estimated carryover moisture used at season: Begin: 1 inches End: 1 inches
Begin Growth: 4/24 End Growth: 10/17	

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1)		Normal Year 50% Chance (1)		Average Daily ETc inches	Peak Daily ETPk inches
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March	0.00	0.00	0.00	0.00	0.00	0.00	
April	0.47	0.14	0.00	0.19	0.00	0.07	
May	3.12	0.95	1.50	1.27	1.14	0.10	0.11
June	5.17	0.71	4.46	0.95	4.23	0.17	0.19
July	6.94	0.58	6.36	0.77	6.17	0.22	0.26
August	5.92	0.45	5.47	0.59	5.32	0.19	0.22
September	3.31	0.49	2.57	0.65	2.31	0.11	0.12
October	1.04	0.29	0.00	0.39	0.00	0.06	
November	0.00	0.00	0.00	0.00	0.00	0.00	
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