

Irrigation Water Requirements

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Laramie County, Wyoming

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Irrigation Water Requirements Crop Data Summary

Job: Albin	Crop: Alfalfa Hay
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 5/4 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	2.96	1.19	0.77	1.53	0.43	0.11	
June	6.64	1.47	5.18	1.88	4.76	0.22	0.25
July	8.48	1.34	7.13	1.73	6.75	0.27	0.33
August	7.13	0.88	6.25	1.13	6.00	0.23	0.27
September	3.98	0.65	2.33	0.83	2.15	0.13	
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	29.19	5.53	21.66	7.10	20.09		

(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: Albin	Crop: Barley
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 1 inches End: 1 inches
Begin Growth: 4/18 End Growth: 8/26	

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	0.39	0.27	0.00	0.34	0.00	0.03	
May	2.91	1.34	0.69	1.72	0.24	0.09	0.10
June	7.21	1.51	5.70	1.94	5.27	0.24	0.28
July	7.93	1.30	6.63	1.67	6.23	0.26	0.31
August	1.68	0.55	0.13	0.71	0.00	0.06	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	20.12	4.98	13.15	6.39	11.74		

(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: Albin	Crop: Corn, Grain
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 1 inches End: 1 inches
Begin Growth: 5/19 End Growth: 9/22	

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	0.87	0.49	0.00	0.63	0.00	0.07	
June	3.67	1.24	1.80	1.59	1.31	0.12	0.13
July	7.60	1.28	6.32	1.64	5.96	0.25	0.29
August	7.00	0.87	6.13	1.12	5.88	0.23	0.27
September	2.88	0.47	1.40	0.61	1.27	0.13	
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	22.03	4.36	15.66	5.60	14.43		

(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: Albin	Crop: Corn, Silage
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 5/19 End Growth: 9/22	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	0.85	0.49	0.00	0.63	0.00	0.07	
June	3.39	1.22	1.52	1.57	1.03	0.11	0.12
July	6.96	1.24	5.73	1.59	5.38	0.22	0.26
August	7.18	0.88	6.30	1.13	6.05	0.23	0.27
September	3.18	0.49	1.69	0.62	1.56	0.14	
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	21.56	4.32	15.24	5.54	14.02		

(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: Albin	Crop: Dry beans
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 1 inches End: 1 inches
Begin Growth: 6/4 End Growth: 9/12	

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	0.00	0.00	0.00	0.00	0.00	0.00	
June	2.63	1.03	0.59	1.32	0.30	0.10	
July	7.80	1.30	6.51	1.66	6.14	0.25	0.30
August	6.31	0.84	5.47	1.08	5.24	0.20	0.24
September	1.41	0.25	0.15	0.32	0.08	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	18.15	3.42	12.73	4.39	11.76		

(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: Albin	Crop: Grass Hay
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 4/18 End Growth: 10/24	

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	0.95	0.35	0.00	0.45	0.00	0.07	
May	3.47	1.38	1.69	1.77	1.20	0.11	0.12
June	5.43	1.37	4.06	1.76	3.68	0.18	0.20
July	7.04	1.24	5.80	1.59	5.45	0.23	0.27
August	6.09	0.83	5.26	1.06	5.03	0.20	0.23
September	3.60	0.65	2.95	0.84	2.77	0.12	0.13
October	1.53	0.33	0.20	0.43	0.10	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	28.12	6.15	19.96	7.90	18.22		

(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: Albin	Crop: Millet
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 4/18 End Growth: 8/26	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	0.39	0.27	0.00	0.34	0.00	0.03	
May	2.91	1.34	0.69	1.72	0.24	0.09	0.10
June	7.21	1.51	5.70	1.94	5.27	0.24	0.28
July	7.93	1.30	6.63	1.67	6.23	0.26	0.31
August	1.68	0.55	0.13	0.71	0.00	0.06	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	20.12	4.98	13.15	6.39	11.74		

(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: Albin	Crop: Oats
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 1 inches End: 1 inches
Begin Growth: 4/18 End Growth: 8/26	

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	0.39	0.27	0.00	0.34	0.00	0.03	
May	2.91	1.34	0.69	1.72	0.24	0.09	0.10
June	7.21	1.51	5.70	1.94	5.27	0.24	0.28
July	7.93	1.30	6.63	1.67	6.23	0.26	0.31
August	1.68	0.55	0.13	0.71	0.00	0.06	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	20.12	4.98	13.15	6.39	11.74		

(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: Albin	Crop: Pasture (grass)
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 4/18 End Growth: 10/24	

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	0.95	0.35	0.00	0.45	0.00	0.07	
May	3.47	1.38	1.69	1.77	1.20	0.11	0.12
June	5.43	1.37	4.06	1.76	3.68	0.18	0.20
July	7.04	1.24	5.80	1.59	5.45	0.23	0.27
August	6.09	0.83	5.26	1.06	5.03	0.20	0.23
September	3.60	0.65	2.95	0.84	2.77	0.12	0.13
October	1.53	0.33	0.20	0.43	0.10	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	28.12	6.15	19.96	7.90	18.22		

(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: Albin	Crop: Sugar beet
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 5/5 End Growth: 9/22	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	1.32	0.94	0.00	1.21	0.00	0.05	
June	4.66	1.31	2.72	1.68	2.08	0.16	0.17
July	8.54	1.35	7.19	1.73	6.81	0.28	0.33
August	8.26	0.94	7.33	1.20	7.06	0.27	0.32
September	3.49	0.50	2.00	0.64	1.85	0.16	
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	26.28	5.04	19.24	6.47	17.81		

(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: Albin	Crop: Winter wheat
Location: Albin	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ALBIN	Sta No: WY0080
Latitude: 4125 Longitude: 10406	Elevation: 5350 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: 1 inches End: 1 inches
Begin Growth: 4/18 End Growth: 7/31	

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	1.49	0.37	0.12	0.48	0.01	0.11	
May	5.18	1.52	3.66	1.95	3.23	0.17	0.19
June	6.95	1.49	5.46	1.91	5.04	0.23	0.26
July	2.92	0.99	0.94	1.27	0.66	0.09	
August	0.00	0.00	0.00	0.00	0.00	0.00	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	16.54	4.37	10.17	5.61	8.93		

(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: Archer	Crop: Alfalfa Hay
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 5/9 End Growth: 9/29	

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	2.37	0.81	0.55	1.06	0.31	0.10	
June	6.24	1.33	4.92	1.73	4.51	0.21	0.24
July	8.13	1.27	6.86	1.65	6.48	0.26	0.31
August	6.78	0.95	5.84	1.23	5.55	0.22	0.26
September	3.71	0.68	2.03	0.89	1.82	0.13	
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	27.24	5.04	20.20	6.57	18.67		

(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: Archer	Crop: Barley
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 1 inches End: 1 inches
Begin Growth: 4/23 End Growth: 8/31	

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	0.21	0.13	0.00	0.18	0.00	0.03	
May	2.40	1.10	0.38	1.43	0.00	0.08	0.08
June	6.48	1.35	5.13	1.76	4.72	0.22	0.24
July	8.30	1.28	7.02	1.67	6.63	0.27	0.32
August	2.35	0.74	0.61	0.96	0.38	0.08	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	19.73	4.60	13.14	6.00	11.73		

(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: Archer	Crop: Corn, Grain
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 5/25 End Growth: 9/21	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	0.45	0.21	0.00	0.27	0.00	0.06	
June	3.21	1.12	1.33	1.46	0.92	0.11	0.11
July	7.04	1.19	5.84	1.56	5.48	0.23	0.27
August	6.67	0.94	5.73	1.23	5.44	0.22	0.25
September	2.65	0.49	1.16	0.64	1.01	0.13	
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	20.01	3.95	14.06	5.16	12.85		

(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: Archer	Crop: Corn, Silage
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 5/25 End Growth: 9/21	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	0.44	0.21	0.00	0.27	0.00	0.06	
June	3.00	1.11	1.12	1.45	0.72	0.10	0.11
July	6.39	1.15	5.24	1.50	4.89	0.21	0.24
August	6.83	0.95	5.88	1.24	5.59	0.22	0.26
September	2.92	0.50	1.42	0.66	1.27	0.14	
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	19.58	3.92	13.67	5.11	12.47		

(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: Archer	Crop: Dry beans
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 1 inches End: 1 inches
Begin Growth: 6/10 End Growth: 9/18	

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	0.00	0.00	0.00	0.00	0.00	0.00	
June	1.84	0.72	0.11	0.94	0.00	0.09	
July	6.97	1.19	5.78	1.55	5.31	0.22	0.27
August	6.42	0.93	5.49	1.21	5.21	0.21	0.24
September	1.78	0.40	0.38	0.52	0.26	0.10	
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	17.01	3.24	11.77	4.23	10.78		

(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: Archer	Crop: Grass Hay
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 4/23 End Growth: 10/21	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	0.58	0.15	0.00	0.20	0.00	0.07	
May	3.24	1.15	1.52	1.50	1.12	0.10	0.12
June	5.11	1.25	3.86	1.63	3.48	0.17	0.19
July	6.76	1.17	5.58	1.53	5.22	0.22	0.26
August	5.79	0.89	4.90	1.17	4.63	0.19	0.22
September	3.41	0.70	2.71	0.92	2.49	0.11	0.12
October	1.35	0.27	0.08	0.35	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	26.24	5.59	18.65	7.30	16.94		

(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: Archer	Crop: Millet
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 4/23 End Growth: 8/31	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	0.21	0.13	0.00	0.18	0.00	0.03	
May	2.40	1.10	0.38	1.43	0.00	0.08	0.08
June	6.48	1.35	5.13	1.76	4.72	0.22	0.24
July	8.30	1.28	7.02	1.67	6.63	0.27	0.32
August	2.35	0.74	0.61	0.96	0.38	0.08	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	19.73	4.60	13.14	6.00	11.73		

(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: Archer	Crop: Oats
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 4/23 End Growth: 8/31	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	0.21	0.13	0.00	0.18	0.00	0.03	
May	2.40	1.10	0.38	1.43	0.00	0.08	0.08
June	6.48	1.35	5.13	1.76	4.72	0.22	0.24
July	8.30	1.28	7.02	1.67	6.63	0.27	0.32
August	2.35	0.74	0.61	0.96	0.38	0.08	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	19.73	4.60	13.14	6.00	11.73		

(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: Archer	Crop: Pasture (grass)
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 4/23 End Growth: 10/21	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	0.58	0.15	0.00	0.20	0.00	0.07	
May	3.24	1.15	1.52	1.50	1.12	0.10	0.12
June	5.11	1.25	3.86	1.63	3.48	0.17	0.19
July	6.76	1.17	5.58	1.53	5.22	0.22	0.26
August	5.79	0.89	4.90	1.17	4.63	0.19	0.22
September	3.41	0.70	2.71	0.92	2.49	0.11	0.12
October	1.35	0.27	0.08	0.35	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	26.24	5.59	18.65	7.30	16.94		

(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: Archer	Crop: Sugar beet
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 5/9 End Growth: 9/21	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		
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	1.07	0.74	0.00	0.96	0.00	0.05	
June	4.20	1.18	2.34	1.55	1.75	0.14	0.15
July	8.09	1.26	6.82	1.65	6.44	0.26	0.31
August	7.86	1.00	6.85	1.31	6.55	0.25	0.30
September	3.21	0.51	1.70	0.67	1.54	0.15	
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	24.42	4.71	17.71	6.14	16.28		

(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: Archer	Crop: Winter wheat
Location: Archer	County: Laramie, WY
By: L Cornia	Date: 01/16/07
Weather Station: ARCHER	Sta No: WY0270
Latitude: 4109 Longitude: 10439	Elevation: 6010 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: 1 inches End: 1 inches
Begin Growth: 4/23 End Growth: 7/31	

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	0.91	0.17	0.00	0.22	0.00	0.11	
May	4.86	1.26	3.34	1.64	2.91	0.16	0.18
June	6.66	1.36	5.30	1.77	4.89	0.22	0.25
July	2.94	0.95	0.99	1.24	0.71	0.09	
August	0.00	0.00	0.00	0.00	0.00	0.00	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	15.38	3.73	9.64	4.87	8.50		

(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: Carpenter	Crop: Alfalfa Hay
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 5/3 End Growth: 9/29	

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	3.04	0.90	1.14	1.20	0.84	0.10	
June	6.63	1.27	5.36	1.68	4.95	0.22	0.25
July	8.53	1.45	7.07	1.93	6.60	0.28	0.33
August	7.08	0.82	6.26	1.09	5.99	0.23	0.27
September	3.89	0.62	2.26	0.83	2.06	0.13	
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	29.17	5.07	22.10	6.73	20.44		

(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: Carpenter	Crop: Barley
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 4/17 End Growth: 8/25	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		
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	0.44	0.21	0.00	0.27	0.00	0.03	
May	3.00	0.99	1.25	1.31	0.86	0.10	0.11
June	7.25	1.31	5.93	1.74	5.51	0.24	0.28
July	7.81	1.40	6.41	1.85	5.84	0.25	0.30
August	1.54	0.50	0.04	0.66	0.00	0.06	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	20.04	4.40	13.64	5.84	12.20		

(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: Carpenter	Crop: Corn, Grain
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 5/19 End Growth: 9/23	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	0.87	0.36	0.00	0.48	0.00	0.07	
June	3.66	1.08	2.10	1.43	1.63	0.12	0.13
July	7.61	1.38	6.23	1.83	5.78	0.25	0.29
August	6.97	0.82	6.15	1.08	5.89	0.22	0.27
September	3.00	0.49	1.51	0.65	1.35	0.13	
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	22.12	4.13	15.99	5.47	14.64		

(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: Carpenter	Crop: Corn, Silage
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 5/19 End Growth: 9/23	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	0.85	0.36	0.00	0.48	0.00	0.07	
June	3.38	1.06	1.81	1.40	1.35	0.11	0.12
July	6.95	1.33	5.62	1.77	5.18	0.22	0.26
August	7.14	0.82	6.31	1.09	6.04	0.23	0.27
September	3.30	0.50	1.80	0.67	1.64	0.14	
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	21.62	4.08	15.54	5.41	14.21		

(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: Carpenter	Crop: Dry beans
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 1 inches End: 1 inches
Begin Growth: 6/4 End Growth: 9/12	

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	0.00	0.00	0.00	0.00	0.00	0.00	
June	2.63	0.89	0.74	1.19	0.44	0.10	
July	7.85	1.40	6.45	1.86	5.99	0.25	0.30
August	6.27	0.79	5.48	1.04	5.23	0.20	0.24
September	1.40	0.25	0.15	0.33	0.06	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	18.14	3.33	12.81	4.42	11.73		

(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: Carpenter	Crop: Grass Hay
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 4/17 End Growth: 10/23	

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	1.04	0.22	0.00	0.29	0.00	0.07	
May	3.49	1.01	2.30	1.34	1.90	0.11	0.12
June	5.42	1.19	4.24	1.57	3.85	0.18	0.20
July	7.08	1.34	5.74	1.78	5.30	0.23	0.27
August	6.05	0.78	5.27	1.03	5.02	0.20	0.23
September	3.58	0.64	2.93	0.86	2.72	0.12	0.13
October	1.49	0.19	0.30	0.25	0.24	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	28.15	5.37	20.78	7.13	19.03		

(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: Carpenter	Crop: Millet
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 4/17 End Growth: 8/25	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	0.44	0.21	0.00	0.27	0.00	0.03	
May	3.00	0.99	1.25	1.31	0.86	0.10	0.11
June	7.25	1.31	5.93	1.74	5.51	0.24	0.28
July	7.81	1.40	6.41	1.85	5.84	0.25	0.30
August	1.54	0.50	0.04	0.66	0.00	0.06	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	20.04	4.40	13.64	5.84	12.20		

(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: Carpenter	Crop: Oats
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 1 inches End: 1 inches
Begin Growth: 4/17 End Growth: 8/25	

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	0.44	0.21	0.00	0.27	0.00	0.03	
May	3.00	0.99	1.25	1.31	0.86	0.10	0.11
June	7.25	1.31	5.93	1.74	5.51	0.24	0.28
July	7.81	1.40	6.41	1.85	5.84	0.25	0.30
August	1.54	0.50	0.04	0.66	0.00	0.06	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	20.04	4.40	13.64	5.84	12.20		

(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: Carpenter	Crop: Pasture (grass)
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 4/17 End Growth: 10/23	

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		
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	1.04	0.22	0.00	0.29	0.00	0.07	
May	3.49	1.01	2.30	1.34	1.90	0.11	0.12
June	5.42	1.19	4.24	1.57	3.85	0.18	0.20
July	7.08	1.34	5.74	1.78	5.30	0.23	0.27
August	6.05	0.78	5.27	1.03	5.02	0.20	0.23
September	3.58	0.64	2.93	0.86	2.72	0.12	0.13
October	1.49	0.19	0.30	0.25	0.24	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	28.15	5.37	20.78	7.13	19.03		

(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: Carpenter	Crop: Sugar beet
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 5/9 End Growth: 9/23	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	1.16	0.65	0.00	0.86	0.00	0.05	
June	4.43	1.12	2.82	1.49	2.24	0.15	0.16
July	8.41	1.44	6.97	1.92	6.50	0.27	0.33
August	8.22	0.88	7.34	1.16	7.06	0.27	0.32
September	3.64	0.52	2.12	0.68	1.95	0.16	
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	25.86	4.60	19.25	6.11	17.75		

(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: Carpenter	Crop: Winter wheat
Location: Carpenter	County: Laramie, WY
By: L Cornia	Date: 01/22/07
Weather Station: CARPENTER	Sta No: WY1547
Latitude: 4103 Longitude: 10421	Elevation: 5390 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: 1 inches End: 1 inches
Begin Growth: 4/17 End Growth: 7/31	

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	1.63	0.24	0.39	0.32	0.32	0.12	
May	5.22	1.12	4.10	1.48	3.74	0.17	0.19
June	6.91	1.29	5.62	1.71	5.20	0.23	0.26
July	2.94	1.06	0.88	1.41	0.53	0.09	
August	0.00	0.00	0.00	0.00	0.00	0.00	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	16.70	3.71	10.99	4.92	9.78		

(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: Cheyenne	Crop: Alfalfa Hay
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 10/5	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	2.39	0.75	0.64	0.99	0.40	0.10	
June	6.31	1.11	5.20	1.46	4.85	0.21	0.24
July	8.13	1.23	6.90	1.62	6.50	0.26	0.31
August	6.75	0.94	5.82	1.24	5.52	0.22	0.26
September	3.84	0.61	2.63	0.80	2.42	0.12	0.14
October	0.46	0.05	0.00	0.07	0.00	0.09	
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	27.88	4.69	21.19	6.18	19.70		

(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: Cheyenne	Crop: Barley
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 1 inches End: 1 inches
Begin Growth: 4/23 End Growth: 8/31	

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	0.21	0.13	0.00	0.17	0.00	0.03	
May	2.42	1.01	0.49	1.33	0.13	0.08	0.08
June	6.55	1.12	5.43	1.48	5.07	0.22	0.25
July	8.29	1.24	7.05	1.64	6.66	0.27	0.32
August	2.34	0.73	0.60	0.97	0.37	0.08	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	19.81	4.23	13.57	5.58	12.22		

(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: Cheyenne	Crop: Corn, Grain
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 1 inches End: 1 inches
Begin Growth: 5/25 End Growth: 9/27	

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	0.45	0.19	0.00	0.25	0.00	0.06	
June	3.19	0.93	1.52	1.23	1.16	0.11	0.11
July	6.85	1.14	5.71	1.51	5.34	0.22	0.26
August	6.72	0.94	5.79	1.24	5.49	0.22	0.25
September	3.25	0.53	1.72	0.70	1.56	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	20.47	3.73	14.74	4.92	13.55		

(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: Cheyenne	Crop: Corn, Silage
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 5/25 End Growth: 9/27	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	0.44	0.19	0.00	0.25	0.00	0.06	
June	2.99	0.92	1.32	1.21	0.97	0.10	0.11
July	6.17	1.10	5.07	1.45	4.72	0.20	0.23
August	6.79	0.94	5.85	1.24	5.55	0.22	0.26
September	3.56	0.54	2.02	0.71	1.85	0.13	
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	19.96	3.69	14.27	4.87	13.09		

(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: Cheyenne	Crop: Dry beans
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 1 inches End: 1 inches
Begin Growth: 6/10 End Growth: 9/18	

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	0.00	0.00	0.00	0.00	0.00	0.00	
June	1.86	0.60	0.25	0.79	0.06	0.09	
July	6.96	1.15	5.81	1.52	5.44	0.22	0.26
August	6.39	0.92	5.47	1.21	5.18	0.21	0.24
September	1.76	0.34	0.42	0.45	0.31	0.10	
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	16.97	3.01	11.96	3.97	11.00		

(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: Cheyenne	Crop: Grass Hay
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 4/23 End Growth: 10/20	

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	0.59	0.14	0.00	0.18	0.00	0.07	
May	3.27	1.06	1.66	1.40	1.28	0.11	0.12
June	5.16	1.04	4.13	1.37	3.79	0.17	0.19
July	6.75	1.14	5.61	1.50	5.25	0.22	0.26
August	5.77	0.89	4.88	1.17	4.60	0.19	0.22
September	3.36	0.59	2.77	0.78	2.55	0.11	0.12
October	1.24	0.21	0.04	0.27	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	26.15	5.06	19.09	6.68	17.47		

(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: Cheyenne	Crop: Millet
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 4/23 End Growth: 8/31	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	0.21	0.13	0.00	0.17	0.00	0.03	
May	2.42	1.01	0.49	1.33	0.13	0.08	0.08
June	6.55	1.12	5.43	1.48	5.07	0.22	0.25
July	8.29	1.24	7.05	1.64	6.66	0.27	0.32
August	2.34	0.73	0.60	0.97	0.37	0.08	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	19.81	4.23	13.57	5.58	12.22		

(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: Cheyenne	Crop: Oats
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 4/23 End Growth: 8/31	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	0.21	0.13	0.00	0.17	0.00	0.03	
May	2.42	1.01	0.49	1.33	0.13	0.08	0.08
June	6.55	1.12	5.43	1.48	5.07	0.22	0.25
July	8.29	1.24	7.05	1.64	6.66	0.27	0.32
August	2.34	0.73	0.60	0.97	0.37	0.08	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	19.81	4.23	13.57	5.58	12.22		

(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: Cheyenne	Crop: Pasture (grass)
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 4/23 End Growth: 10/20	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	0.47	0.15	0.00	0.20	0.00	0.06	
May	2.72	0.69	1.35	0.92	1.07	0.09	0.10
June	4.42	0.64	3.78	0.86	3.56	0.15	0.16
July	5.83	0.47	5.36	0.63	5.20	0.19	0.22
August	4.86	0.46	4.40	0.62	4.24	0.16	0.18
September	2.83	0.46	2.14	0.62	1.89	0.09	0.10
October	1.05	0.27	0.00	0.37	0.00	0.05	
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	22.17	3.14	17.03	4.21	15.96		

(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: Cheyenne	Crop: Sugar beet
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 1 inches End: 1 inches
Begin Growth: 4/28 End Growth: 9/27	

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	0.12	0.04	0.00	0.05	0.00	0.04	
May	1.92	0.98	0.02	1.29	0.00	0.06	0.07
June	4.63	1.01	3.62	1.33	3.00	0.15	0.17
July	8.24	1.24	7.01	1.63	6.61	0.27	0.32
August	7.86	1.00	6.86	1.32	6.54	0.25	0.30
September	3.91	0.55	2.36	0.73	2.18	0.14	
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	26.68	4.81	19.87	6.35	18.33		

(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: Cheyenne	Crop: Winter wheat
Location: Cheyenne	County: Laramie, WY
By: L Cornia	Date: 01/12/07
Weather Station: CHEYENNE WSFO AP	Sta No: WY1675
Latitude: 4109 Longitude: 10449	Elevation: 6120 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: 1 inches End: 1 inches
Begin Growth: 4/23 End Growth: 7/31	

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	0.91	0.15	0.00	0.20	0.00	0.11	
May	4.90	1.16	3.51	1.53	3.09	0.16	0.18
June	6.73	1.13	5.60	1.49	5.24	0.22	0.26
July	2.94	0.92	1.02	1.21	0.73	0.09	
August	0.00	0.00	0.00	0.00	0.00	0.00	
September	0.00	0.00	0.00	0.00	0.00	0.00	
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	15.49	3.36	10.13	4.43	9.06		

(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