Irrigation Water Requirements

Crop Data Summaries

Big Horn County, Wyoming

Figure 1 Basin – Alfalfa Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/24** End Growth: **10/1**

Crop: **Alfalfa Hay**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	0.74	0.06	0.00	0.09	0.00	0.11	
May	4.71	0.52	3.87	0.78	3.58	0.15	0.17
June	7.25	0.52	6.73	0.78	6.48	0.24	0.28
July	9.13	0.23	8.90	0.34	8.78	0.29	0.36
August	7.37	0.29	7.08	0.44	6.93	0.24	0.28
September	3.88	0.32	2.64	0.48	2.48	0.13	0.14
October	0.10	0.01	0.00	0.01	0.00	0.10	
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	**33.18**	**1.95**	**29.23**	**2.93**	**28.25**		

(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 moiature 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

Figure 2 Basin – Barley

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/9** End Growth: **8/17**

Crop: **Barley**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.18	0.00	0.27	0.00	0.03	
May	3.98	0.50	2.88	0.75	2.54	0.13	0.14
June	8.18	0.55	7.63	0.82	7.36	0.27	0.32
July	6.77	0.20	6.14	0.30	5.98	0.22	0.26
August	0.68	0.11	0.00	0.17	0.00	0.04	
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	**20.20**	**1.55**	**16.65**	**2.32**	**15.88**		

(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 moiature 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

Figure 3 Basin – Corn, Grain

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/9** End Growth: **9/18**

Crop: **Corn, Grain**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.30	0.31	0.00	0.47	0.00	0.06	
June	4.63	0.45	4.17	0.67	3.79	0.15	0.17
July	8.58	0.22	8.36	0.33	8.25	0.28	0.33
August	7.10	0.29	6.81	0.43	6.67	0.23	0.27
September	2.30	0.19	1.12	0.28	1.02	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	**23.92**	**1.46**	**20.45**	**2.19**	**19.73**		

(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 moiature 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

Figure 4 Basin – Corn, Silage

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/9** End Growth: **9/18**

Crop: **Corn, Silage**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	1.25	0.31	0.00	0.47	0.00	0.05	
June	4.17	0.44	3.67	0.65	3.29	0.14	0.15
July	8.08	0.22	7.86	0.32	7.75	0.26	0.31
August	7.40	0.29	7.10	0.44	6.96	0.24	0.28
September	2.57	0.19	1.37	0.29	1.28	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	**23.46**	**1.45**	**20.01**	**2.18**	**19.28**		

(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 moiature 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

Figure 5 Basin – Dry beans

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/25** End Growth: **9/2**

Crop: **Dry beans**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	0.53	0.09	0.00	0.13	0.00	0.08	
June	4.66	0.45	3.65	0.67	3.38	0.16	0.17
July	8.84	0.23	8.61	0.34	8.50	0.29	0.34
August	5.64	0.27	4.58	0.40	4.44	0.18	0.21
September	0.23	0.02	0.00	0.03	0.00	0.11	
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	**19.90**	**1.05**	**16.85**	**1.57**	**16.32**		

(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 moiature 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

Figure 6 Basin – Grass Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/9** End Growth: **10/19**

Crop: **Grass Hay**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.16	0.19	0.00	0.29	0.00	0.05	
May	3.91	0.50	3.39	0.75	3.04	0.13	0.14
June	5.93	0.48	5.45	0.72	5.21	0.20	0.22
July	7.58	0.21	7.37	0.31	7.27	0.24	0.29
August	6.29	0.28	6.02	0.41	5.88	0.20	0.24
September	3.40	0.31	3.08	0.47	2.93	0.11	0.12
October	1.16	0.11	0.06	0.16	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	**29.45**	**2.08**	**25.37**	**3.12**	**24.33**		

(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 moiature 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

Figure 7 Basin – Oats

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/9** End Growth: **8/17**

Crop: **Oats**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.18	0.00	0.27	0.00	0.03	
May	3.98	0.50	2.88	0.75	2.54	0.13	0.14
June	8.18	0.55	7.63	0.82	7.36	0.27	0.32
July	6.77	0.20	6.14	0.30	5.98	0.22	0.26
August	0.68	0.11	0.00	0.17	0.00	0.04	
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	**20.20**	**1.55**	**16.65**	**2.32**	**15.88**		

(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 moiature 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

Figure 8 Basin – Pasture (grass)

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/9** End Growth: **10/19**

Crop: **Pasture (grass)**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.16	0.19	0.00	0.29	0.00	0.05	
May	3.91	0.50	3.39	0.75	3.04	0.13	0.14
June	5.93	0.48	5.45	0.72	5.21	0.20	0.22
July	7.58	0.21	7.37	0.31	7.27	0.24	0.29
August	6.29	0.28	6.02	0.41	5.88	0.20	0.24
September	3.40	0.31	3.08	0.47	2.93	0.11	0.12
October	1.16	0.11	0.06	0.16	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	**29.45**	**2.08**	**25.37**	**3.12**	**24.33**		

(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 moiature 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

Figure 9 Basin – Sugar beet

Irrigation Water Requirements
Crop Data Summary

Job: **Basin**
Location: **Basin**
By: **L Cornia**
Weather Station: **BASIN**
Latitude: **4423** Longitude: **10803**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/30** End Growth: **9/18**

Crop: **Sugar beet**
County: **Big Horn, WY**
Date: **01/22/07**
Sta No: **WY0540**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.05	0.00	0.00	0.00	0.00	0.05	
May	2.29	0.46	0.89	0.69	0.66	0.07	0.08
June	5.47	0.47	5.00	0.70	4.77	0.18	0.20
July	9.47	0.23	9.24	0.35	9.12	0.31	0.37
August	8.48	0.31	8.16	0.47	8.01	0.27	0.33
September	2.81	0.20	1.61	0.30	1.51	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	**28.57**	**1.67**	**24.90**	**2.50**	**24.07**		

(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 moiature 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

Figure 10 Deaver – Alfalfa Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/30** End Growth: **9/23**

Crop: **Alfalfa Hay**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.09	0.00	0.00	0.00	0.00	0.09	
May	3.94	1.10	1.93	1.45	1.58	0.13	0.14
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	3.08	0.46	1.62	0.61	1.47	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	**28.30**	**4.83**	**21.47**	**6.37**	**19.93**		

(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 moiature 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

Figure 11 Deaver – Barley

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/15** End Growth: **8/23**

Crop: **Barley**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.26	0.00	0.34	0.00	0.02	
May	2.94	1.04	1.03	1.37	0.61	0.09	0.10
June	6.98	1.15	5.84	1.52	5.47	0.23	0.27
July	7.12	1.16	5.65	1.53	5.12	0.23	0.27
August	1.22	0.52	0.00	0.69	0.00	0.05	
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	**18.65**	**4.13**	**12.52**	**5.45**	**11.20**		

(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 moiature 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

Figure 12 Deaver – Corn, Grain

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/14** End Growth: **9/16**

Crop: **Corn, Grain**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.53	0.00	0.69	0.00	0.05	
June	3.82	0.96	2.20	1.27	1.72	0.13	0.14
July	7.57	1.19	6.38	1.57	5.99	0.24	0.29
August	6.50	0.92	5.57	1.22	5.28	0.21	0.25
September	2.02	0.32	0.71	0.42	0.61	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	**20.77**	**3.92**	**14.85**	**5.17**	**13.60**		

(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 moiature 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

Figure 13 Deaver – Corn, Silage

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/14** End Growth: **9/16**

Crop: **Corn, Silage**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	0.84	0.52	0.00	0.69	0.00	0.05	
June	3.46	0.94	1.84	1.24	1.37	0.12	0.12
July	7.08	1.16	5.92	1.53	5.55	0.23	0.27
August	6.77	0.94	5.83	1.24	5.53	0.22	0.26
September	2.25	0.32	0.93	0.43	0.83	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	**20.41**	**3.89**	**14.52**	**5.13**	**13.28**		

(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 moiature 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

Figure 14 Deaver – Dry beans

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **6/1** End Growth: **9/9**

Crop: **Dry beans**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	2.80	0.88	0.92	1.16	0.64	0.09	
July	7.66	1.20	6.47	1.58	6.08	0.25	0.29
August	5.74	0.89	4.68	1.17	4.34	0.19	0.21
September	0.99	0.17	0.00	0.23	0.00	0.11	
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	**17.20**	**3.14**	**12.06**	**4.14**	**11.06**		

(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 moiature 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

Figure 15 Deaver – Grass Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/15** End Growth: **10/18**

Crop: **Grass Hay**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.88	0.29	0.00	0.38	0.00	0.05	
May	3.27	1.06	1.80	1.40	1.37	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	2.73	0.78	2.48	0.11	0.12
October	1.15	0.19	0.00	0.25	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	**26.35**	**5.19**	**19.15**	**6.85**	**17.50**		

(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 moiature 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

Figure 16 Deaver – Oats

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/15** End Growth: **8/23**

Crop: **Oats**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.26	0.00	0.34	0.00	0.02	
May	2.94	1.04	1.03	1.37	0.61	0.09	0.10
June	6.98	1.15	5.84	1.52	5.47	0.23	0.27
July	7.12	1.16	5.65	1.53	5.12	0.23	0.27
August	1.22	0.52	0.00	0.69	0.00	0.05	
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	**18.65**	**4.13**	**12.52**	**5.45**	**11.20**		

(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 moiature 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

Figure 17 Deaver – Pasture (grass)

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/15** End Growth: **10/18**

Crop: **Pasture (grass)**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.88	0.29	0.00	0.38	0.00	0.05	
May	3.27	1.06	1.80	1.40	1.37	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	2.73	0.78	2.48	0.11	0.12
October	1.15	0.19	0.00	0.25	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	**26.35**	**5.19**	**19.15**	**6.85**	**17.50**		

(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 moiature 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

Figure 18 Deaver – Sugar beet

Irrigation Water Requirements
Crop Data Summary

Job: **Deaver**
Location: **Deaver**
By: **L Cornia**
Weather Station: **DEAVER**
Latitude: **4453** Longitude: **10836**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/6** End Growth: **9/16**

Crop: **Sugar beet**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY2415**
Elevation: **4100** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.22	0.77	0.00	1.02	0.00	0.05	
June	4.50	1.00	2.95	1.32	2.38	0.15	0.16
July	8.34	1.24	7.10	1.64	6.70	0.27	0.32
August	7.75	0.99	6.76	1.31	6.44	0.25	0.30
September	2.46	0.33	1.13	0.44	1.02	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	**24.27**	**4.34**	**17.93**	**5.72**	**16.55**		

(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 moiature 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

Figure 19 Emblem – Alfalfa Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/30** End Growth: **10/2**

Crop: **Alfalfa Hay**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	0.00	0.00	0.00	0.00	0.12	
May	4.70	1.29	2.53	1.69	2.13	0.15	0.17
June	7.36	0.85	6.51	1.11	6.25	0.25	0.28
July	9.11	0.99	8.12	1.29	7.82	0.29	0.36
August	7.76	0.77	6.99	1.01	6.75	0.25	0.30
September	4.70	0.58	3.33	0.76	3.14	0.15	0.17
October	0.24	0.03	0.00	0.04	0.00	0.12	
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	**33.99**	**4.51**	**27.48**	**5.91**	**26.08**		

(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 moiature 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

Figure 20 Emblem – Barley

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/15** End Growth: **8/23**

Crop: **Barley**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.52	0.22	0.00	0.29	0.00	0.03	
May	3.51	1.21	1.60	1.58	1.16	0.11	0.13
June	8.14	0.88	7.26	1.16	6.99	0.27	0.31
July	7.98	0.93	7.04	1.21	6.62	0.26	0.31
August	1.40	0.41	0.00	0.54	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	**21.55**	**3.65**	**15.90**	**4.78**	**14.77**		

(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 moiature 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

Figure 21 Emblem – Corn, Grain

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/15** End Growth: **9/19**

Crop: **Corn, Grain**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.13	0.58	0.00	0.75	0.00	0.07	
June	4.36	0.71	3.20	0.94	2.80	0.15	0.16
July	8.38	0.95	7.43	1.24	7.14	0.27	0.32
August	7.54	0.76	6.78	1.00	6.54	0.24	0.29
September	2.88	0.35	1.52	0.46	1.41	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	**24.29**	**3.36**	**18.93**	**4.40**	**17.89**		

(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 moiature 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

Figure 22 Emblem – Corn, Silage

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/15** End Growth: **9/19**

Crop: **Corn, Silage**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.10	0.57	0.00	0.75	0.00	0.06	
June	3.97	0.70	2.79	0.92	2.40	0.13	0.14
July	7.78	0.92	6.86	1.20	6.58	0.25	0.30
August	7.80	0.78	7.03	1.02	6.79	0.25	0.30
September	3.19	0.36	1.83	0.48	1.71	0.17	
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	**23.84**	**3.33**	**18.51**	**4.36**	**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 moiature 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

Figure 23 Emblem – Dry Beans

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **6/1** End Growth: **9/9**

Crop: **Dry beans**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	3.30	0.65	1.65	0.85	1.45	0.11	
July	8.59	0.96	7.63	1.26	7.33	0.28	0.33
August	6.60	0.73	5.88	0.95	5.62	0.21	0.25
September	1.18	0.16	0.02	0.21	0.00	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	**19.67**	**2.50**	**15.17**	**3.27**	**14.40**		

(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 moiature 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

Figure 24 Emblem – Grass Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/15** End Growth: **10/18**

Crop: **Grass Hay**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.17	0.23	0.00	0.31	0.00	0.07	
May	3.91	1.24	2.61	1.62	2.15	0.13	0.14
June	6.02	0.78	5.24	1.03	4.99	0.20	0.23
July	7.57	0.91	6.66	1.19	6.38	0.24	0.29
August	6.63	0.73	5.90	0.95	5.68	0.21	0.25
September	4.12	0.56	3.56	0.73	3.38	0.13	0.15
October	1.50	0.28	0.22	0.36	0.13	0.08	
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	**30.91**	**4.72**	**24.19**	**6.19**	**22.72**		

(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 moiature 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

Figure 25 Emblem – Oats

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/15** End Growth: **8/23**

Crop: **Oats**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.52	0.22	0.00	0.29	0.00	0.03	
May	3.51	1.21	1.60	1.58	1.16	0.11	0.13
June	8.14	0.88	7.26	1.16	6.99	0.27	0.31
July	7.98	0.93	7.04	1.21	6.62	0.26	0.31
August	1.40	0.41	0.00	0.54	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	**21.55**	**3.65**	**15.90**	**4.78**	**14.77**		

(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 moiature 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

Figure 26 Emblem – Pasture (grass)

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/15** End Growth: **10/18**

Crop: **Pasture (grass)**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.17	0.23	0.00	0.31	0.00	0.07	
May	3.91	1.24	2.61	1.62	2.15	0.13	0.14
June	6.02	0.78	5.24	1.03	4.99	0.20	0.23
July	7.57	0.91	6.66	1.19	6.38	0.24	0.29
August	6.63	0.73	5.90	0.95	5.68	0.21	0.25
September	4.12	0.56	3.56	0.73	3.38	0.13	0.15
October	1.50	0.28	0.22	0.36	0.13	0.08	
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	**30.91**	**4.72**	**24.19**	**6.19**	**22.72**		

(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 moiature 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

Figure 27 Emblem – Sugar beet

Irrigation Water Requirements
Crop Data Summary

Job: **Emblem**
Location: **Emblem**
By: **L Cornia**
Weather Station: **EMBLEM**
Latitude: **4430** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/29** End Growth: **9/19**

Crop: **Sugar beet**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY3031**
Elevation: **4450** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	0.10	0.02	0.00	0.02	0.00	0.05	
May	2.31	1.13	0.26	1.48	0.00	0.07	0.08
June	5.55	0.76	4.79	1.00	4.46	0.19	0.21
July	9.45	1.01	8.45	1.32	8.13	0.30	0.37
August	8.94	0.83	8.11	1.08	7.85	0.29	0.35
September	3.49	0.38	2.12	0.49	2.00	0.18	
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	**29.85**	**4.12**	**23.73**	**5.39**	**22.45**		

(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 moiature 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

Figure 28 Lovell – Alfalfa Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/30** End Growth: **9/30**

Crop: **Alfalfa Hay**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	0.10	0.00	0.00	0.00	0.00	0.10	
May	4.38	0.53	2.96	0.79	2.70	0.14	0.16
June	6.81	0.57	6.25	0.84	5.97	0.23	0.26
July	8.64	0.33	8.31	0.49	8.15	0.28	0.34
August	7.00	0.36	6.63	0.54	6.46	0.23	0.27
September	3.46	0.32	2.15	0.47	1.99	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	**30.40**	**2.10**	**26.30**	**3.13**	**25.27**		

(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 moiature 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

Figure 29 Lovell – Barley

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/14** End Growth: **8/22**

Crop: **Barley**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.11	0.00	0.16	0.00	0.02	
May	3.34	0.50	2.12	0.74	1.82	0.11	0.12
June	7.58	0.59	6.99	0.88	6.70	0.25	0.29
July	7.39	0.31	7.04	0.46	6.80	0.24	0.28
August	1.15	0.19	0.00	0.28	0.00	0.05	
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	**19.85**	**1.70**	**16.15**	**2.53**	**15.32**		

(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 moiature 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

Figure 30 Lovell – Corn, Grain

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/15** End Growth: **9/19**

Crop: **Corn, Grain**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.05	0.24	0.00	0.35	0.00	0.06	
June	4.04	0.49	3.37	0.72	3.01	0.13	0.15
July	7.95	0.32	7.64	0.47	7.48	0.26	0.31
August	6.80	0.36	6.44	0.53	6.26	0.22	0.26
September	2.28	0.20	1.07	0.30	0.97	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	**22.11**	**1.60**	**18.51**	**2.38**	**17.73**		

(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 moiature 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

Figure 31 Lovell – Corn, Silage

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/15** End Growth: **9/19**

Crop: **Corn, Silage**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	1.02	0.24	0.00	0.35	0.00	0.06	
June	3.67	0.48	2.98	0.71	2.63	0.12	0.13
July	7.38	0.31	7.07	0.46	6.92	0.24	0.28
August	7.04	0.36	6.67	0.54	6.50	0.23	0.27
September	2.53	0.21	1.32	0.31	1.22	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	**21.63**	**1.59**	**18.04**	**2.36**	**17.27**		

(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 moiature 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

Figure 32 Lovell – Dry beans

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/31** End Growth: **9/8**

Crop: **Dry beans**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.07	0.00	0.00	0.00	0.00	0.07	
June	3.80	0.48	2.39	0.71	2.16	0.13	0.14
July	8.20	0.32	7.88	0.48	7.72	0.26	0.32
August	5.87	0.34	5.30	0.50	5.10	0.19	0.22
September	0.86	0.08	0.00	0.12	0.00	0.11	
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	**18.80**	**1.22**	**15.57**	**1.82**	**14.98**		

(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 moiature 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

Figure 33 Lovell – Grass Hay

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/14** End Growth: **10/17**

Crop: **Grass Hay**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.87	0.12	0.00	0.17	0.00	0.05	
May	3.64	0.51	2.88	0.76	2.57	0.12	0.13
June	5.57	0.53	5.05	0.79	4.79	0.19	0.21
July	7.18	0.30	6.88	0.45	6.73	0.23	0.27
August	5.98	0.34	5.63	0.51	5.47	0.19	0.22
September	3.14	0.32	2.72	0.48	2.52	0.10	0.11
October	1.00	0.09	0.00	0.14	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	**27.37**	**2.21**	**23.16**	**3.29**	**22.08**		

(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 moiature 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

Figure 34 Lovell – Oats

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/14** End Growth: **8/22**

Crop: **Oats**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.11	0.00	0.16	0.00	0.02	
May	3.34	0.50	2.12	0.74	1.82	0.11	0.12
June	7.58	0.59	6.99	0.88	6.70	0.25	0.29
July	7.39	0.31	7.04	0.46	6.80	0.24	0.28
August	1.15	0.19	0.00	0.28	0.00	0.05	
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	**19.85**	**1.70**	**16.15**	**2.53**	**15.32**		

(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 moiature 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

Figure 35 Lovell – Pasture (grass)

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/14** End Growth: **10/17**

Crop: **Pasture (grass)**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **1** inches End: **1** inches

Month	Total Monthly ET (3) inches	Dry Year 80% Chance (1) Effective Precipitation inches	Dry Year 80% Chance (1) Net Irrigation Reqirements inches (2)	Normal Year 50% Chance (1) Effective Precipitation inches	Normal Year 50% Chance (1) Net Irrigation Reqirements inches (2)	Average Daily ETc inches	Peak Daily ETPk inches
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	0.87	0.12	0.00	0.17	0.00	0.05	
May	3.64	0.51	2.88	0.76	2.57	0.12	0.13
June	5.57	0.53	5.05	0.79	4.79	0.19	0.21
July	7.18	0.30	6.88	0.45	6.73	0.23	0.27
August	5.98	0.34	5.63	0.51	5.47	0.19	0.22
September	3.14	0.32	2.72	0.48	2.52	0.10	0.11
October	1.00	0.09	0.00	0.14	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	**27.37**	**2.21**	**23.16**	**3.29**	**22.08**		

(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 moiature 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

Figure 36 Lovell – Sugar beet

Irrigation Water Requirements
Crop Data Summary

Job: **Lovell**
Location: **Lovell**
By: **L Cornia**
Weather Station: **LOVELL**
Latitude: **4450** Longitude: **10824**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **4/28** End Growth: **9/19**

Crop: **Sugar beet**
County: **Big Horn, WY**
Date: **01/17/07**
Sta No: **WY5770**
Elevation: **3840** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
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 Reqirements inches (2)	Effective Precipitation inches	Net Irrigation Reqirements 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	0.13	0.01	0.00	0.02	0.00	0.04	
May	2.17	0.47	0.82	0.70	0.58	0.07	0.07
June	5.19	0.52	4.67	0.77	4.42	0.17	0.19
July	9.01	0.34	8.67	0.50	8.51	0.29	0.35
August	8.05	0.38	7.67	0.57	7.48	0.26	0.31
September	2.76	0.21	1.55	0.31	1.45	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	**27.31**	**1.93**	**23.38**	**2.87**	**22.44**		

(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 moiature 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