Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **5/1** End Growth: **9/30**

Crop: **Alfalfa, hay, northern**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	3.44	0.28	2.66	0.38	2.56	0.11	
June	6.84	0.24	6.60	0.33	6.51	0.23	0.25
July	8.37	0.90	7.47	1.23	7.14	0.27	0.30
August	7.15	1.08	6.08	1.47	5.69	0.23	0.25
September	4.38	0.52	3.37	0.71	3.18	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	**30.19**	**3.02**	**26.17**	**4.11**	**25.08**		

(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: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

Begin Growth: **5/1** End Growth: **9/30**

Crop: **Alfalfa, hay, northern**

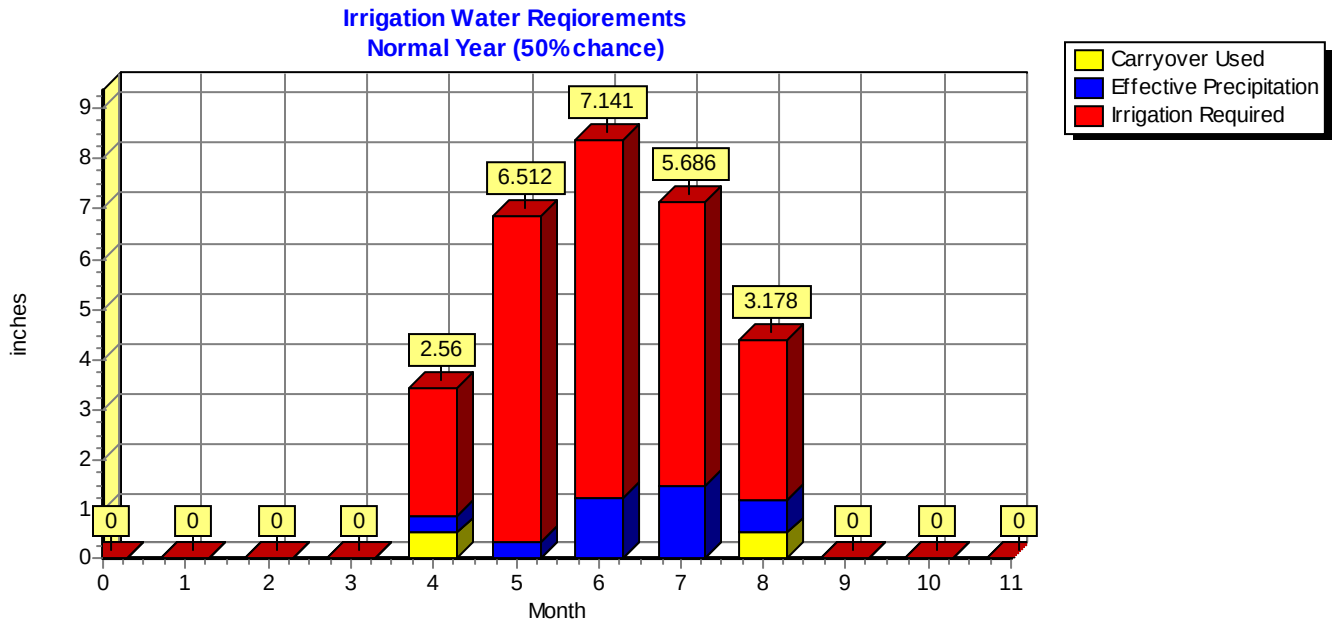
Date: **01/25/05**

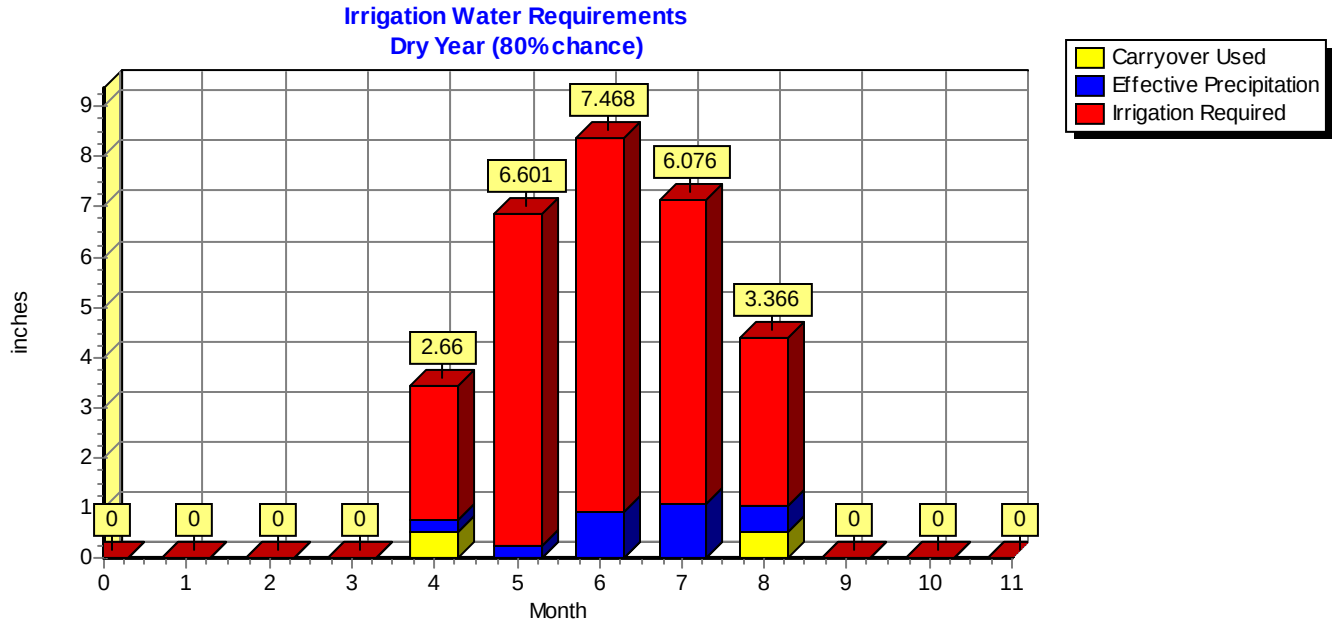
Crop Curve: **Blaney Criddle Perennial Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches





Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/1** End Growth: **9/30**

Crop: **Apples, mature w cover**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	1.82	0.20	1.11	0.28	1.04	0.06	
May	4.46	0.30	4.16	0.41	4.05	0.14	0.16
June	6.84	0.24	6.60	0.33	6.51	0.23	0.25
July	8.37	0.90	7.47	1.23	7.14	0.27	0.30
August	7.15	1.08	6.08	1.47	5.69	0.23	0.25
September	4.38	0.52	3.37	0.71	3.18	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	**33.03**	**3.25**	**28.78**	**4.43**	**27.60**		

(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: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

Begin Growth: **4/1** End Growth: **9/30**

Crop: **Apples, mature w cover**

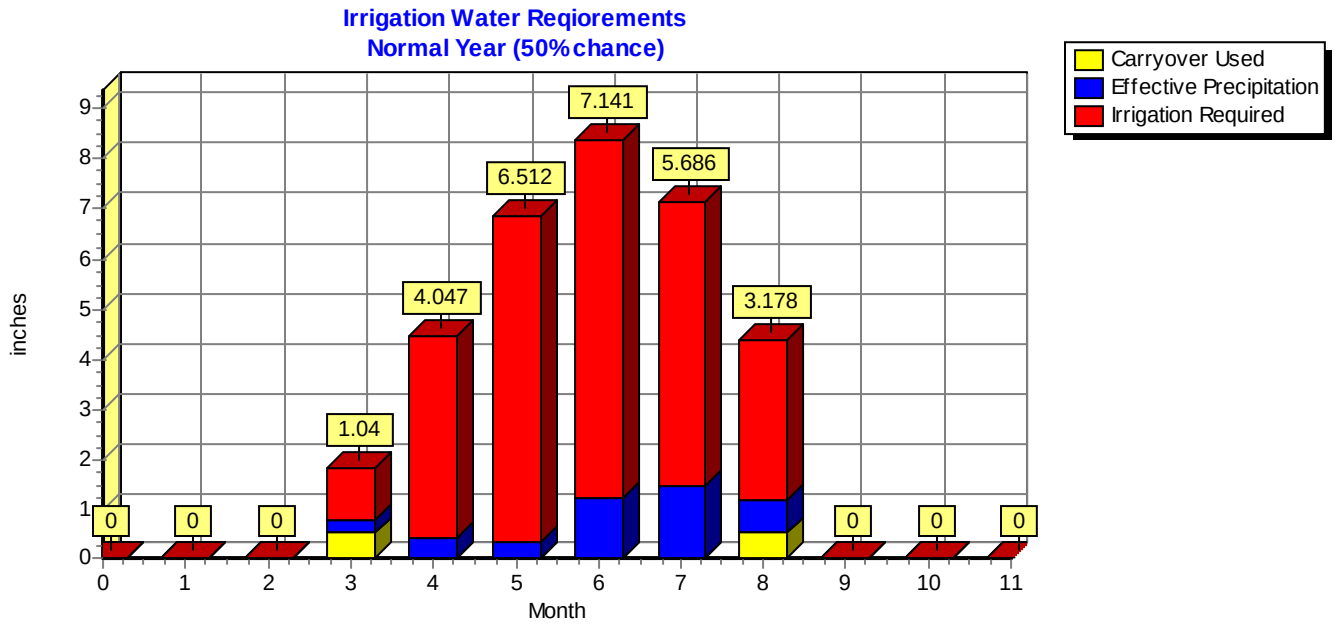
Date: **01/25/05**

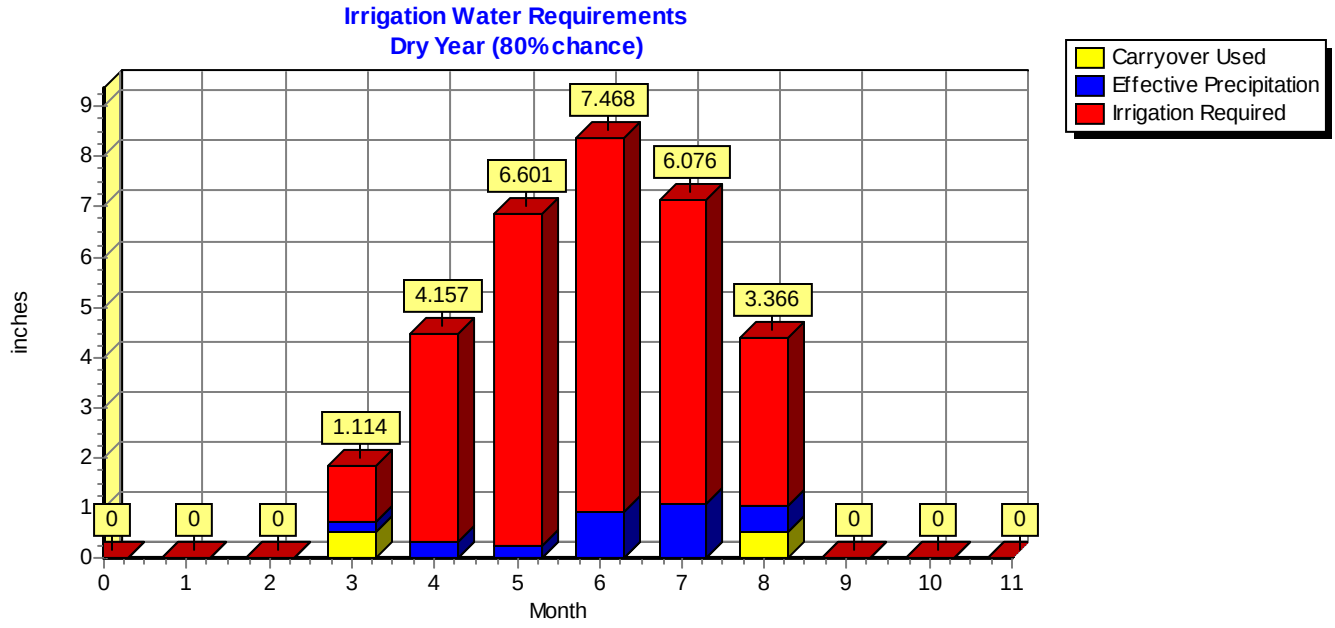
Crop Curve: **Blaney Criddle Perennial Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches





Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **4/1** End Growth: **9/30**

Crop: **Apples, mature w/o cover**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	1.17	0.20	0.47	0.27	0.40	0.04	
May	3.54	0.29	3.25	0.39	3.15	0.11	0.12
June	5.81	0.23	5.58	0.31	5.50	0.19	0.21
July	7.14	0.84	6.29	1.15	5.99	0.23	0.25
August	5.46	0.98	4.48	1.33	4.13	0.18	0.19
September	2.41	0.46	1.44	0.63	1.27	0.08	
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	**25.53**	**3.00**	**21.52**	**4.09**	**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 moiature used at the end of the growing season.

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

Date: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

Begin Growth: **4/1** End Growth: **9/30**

Crop: **Apples, mature w/o cover**

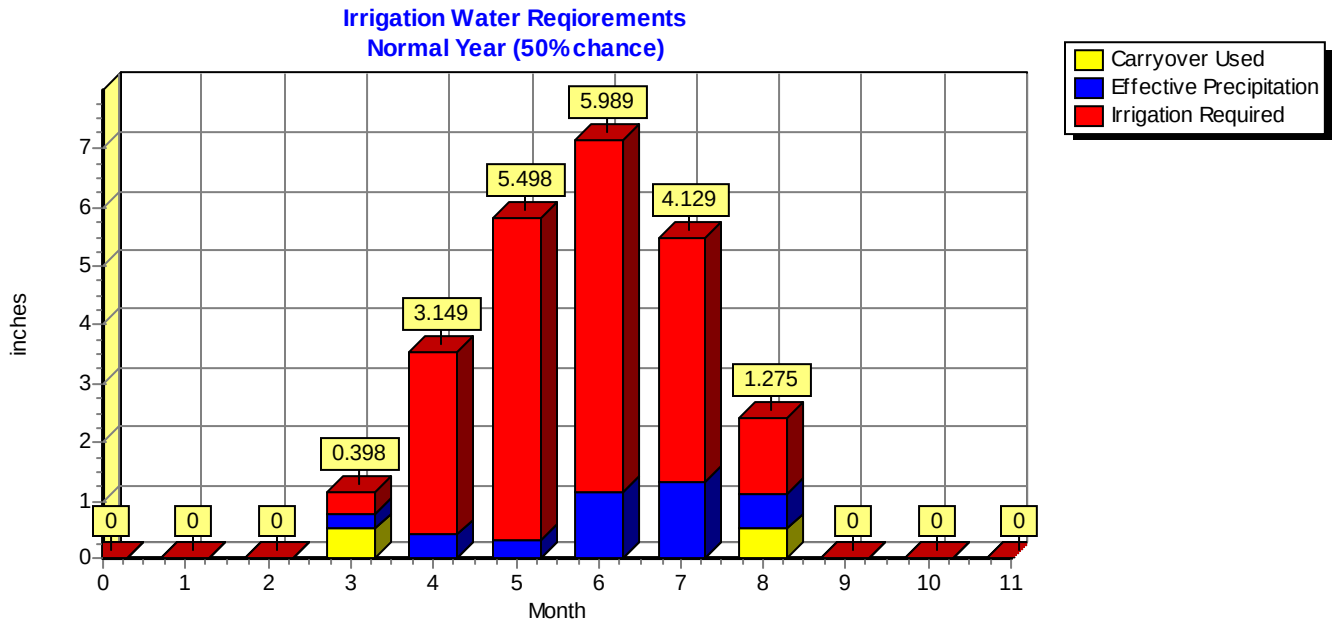
Date: **01/25/05**

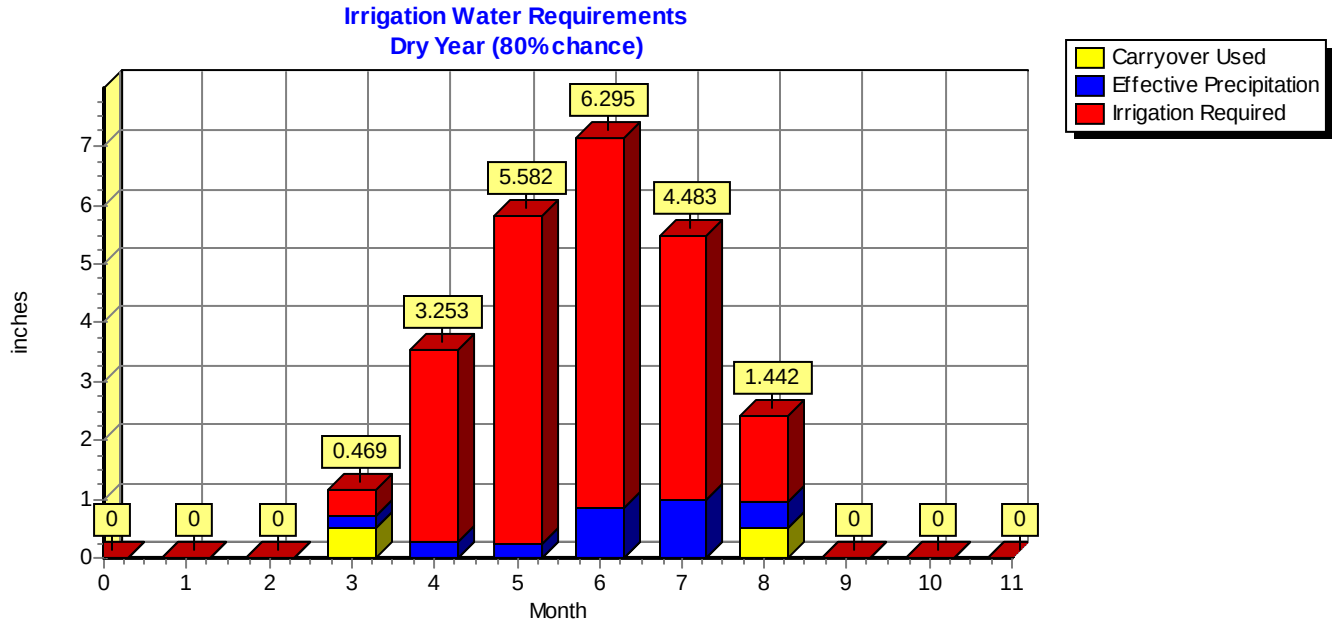
Crop Curve: **Blaney Criddle Perennial Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches





Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/1** End Growth: **8/30**

Crop: **Corn, sweet**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	1.69	0.25	0.94	0.34	0.85	0.05	
June	5.34	0.22	5.12	0.31	5.04	0.18	0.19
July	8.11	0.89	7.22	1.21	6.90	0.26	0.29
August	6.76	1.03	5.23	1.41	4.86	0.23	
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	**21.91**	**2.40**	**18.51**	**3.27**	**17.64**		

(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 moiature used at the end of the growing season.

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

Date: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

Begin Growth: **5/1** End Growth: **8/30**

Crop: **Corn, sweet**

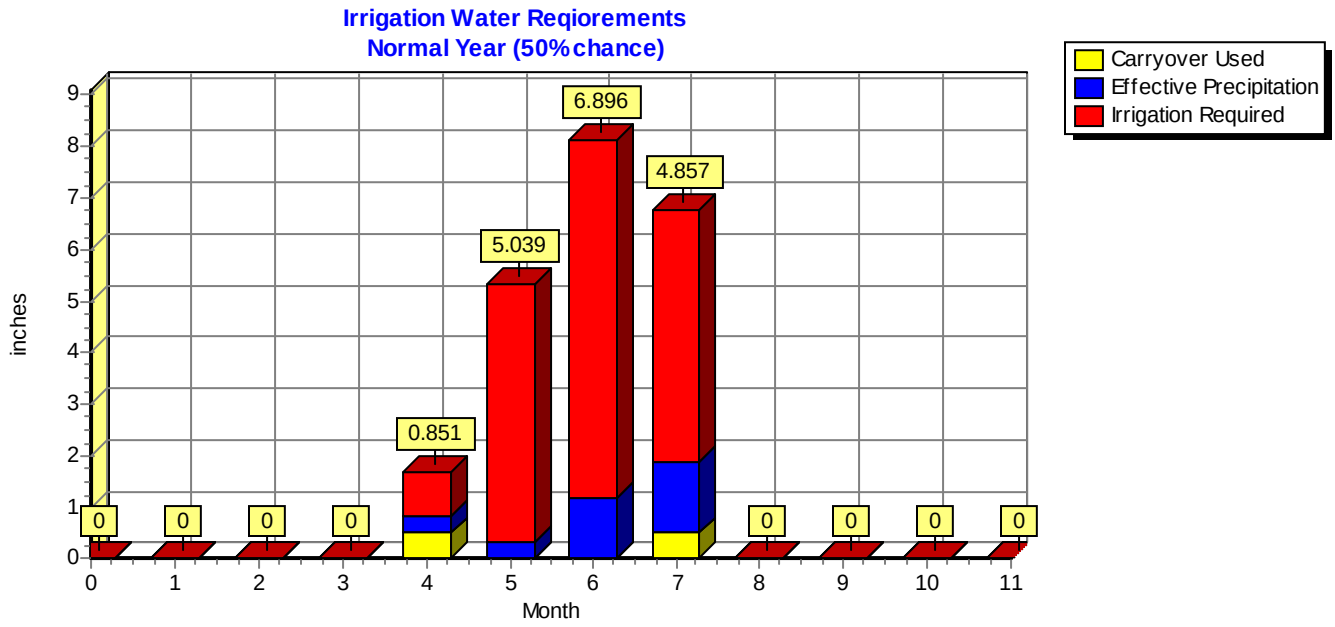
Date: **01/25/05**

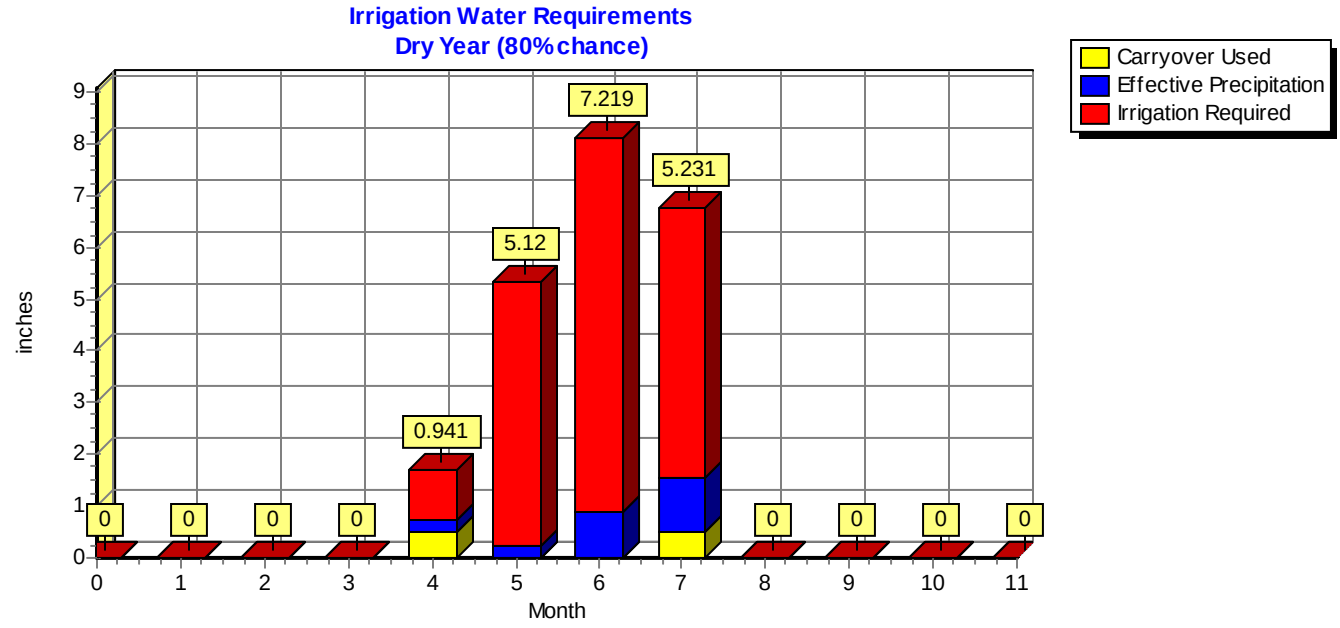
Crop Curve: **Blaney Criddle Annual Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches





Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **6/1** End Growth: **8/30**

Crop: **Grain, spring**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	0.00	0.00	0.00	0.00	0.00	0.00	
June	3.19	0.19	2.50	0.26	2.43	0.11	
July	9.20	0.95	8.26	1.29	7.91	0.30	0.32
August	3.46	0.85	2.11	1.16	1.80	0.12	
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	**15.86**	**1.99**	**12.86**	**2.71**	**12.14**		

(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: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

Begin Growth: **6/1** End Growth: **8/30**

Crop: **Grain, spring**

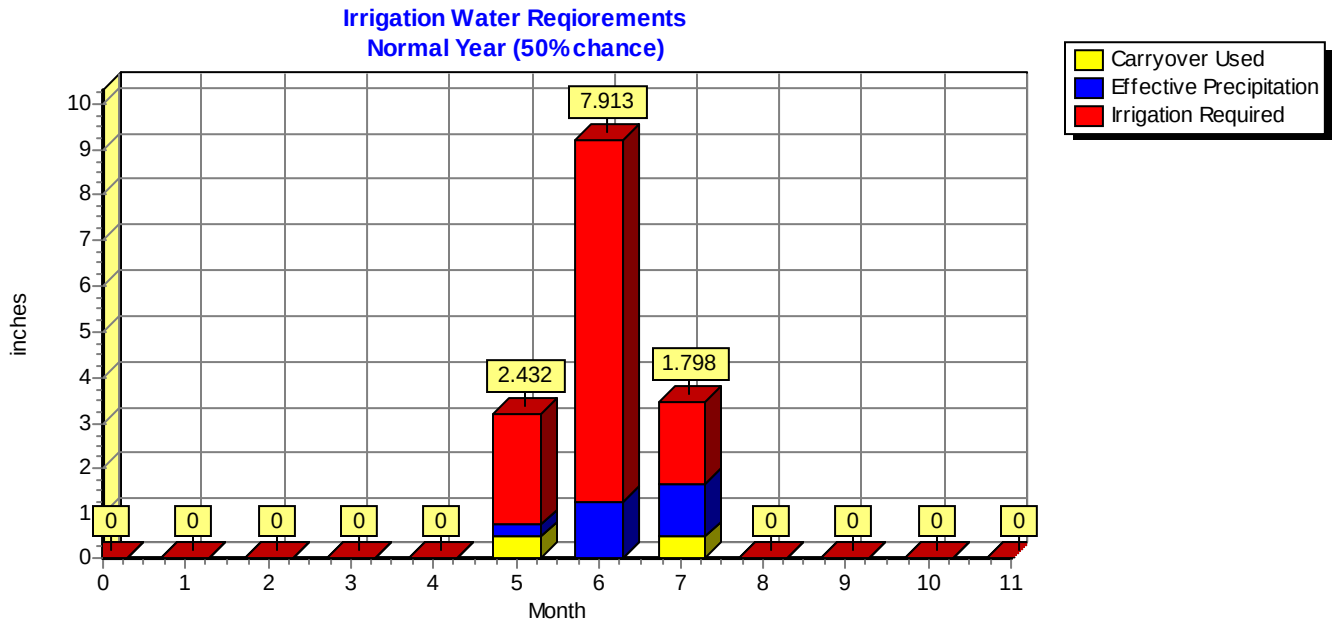
Date: **01/25/05**

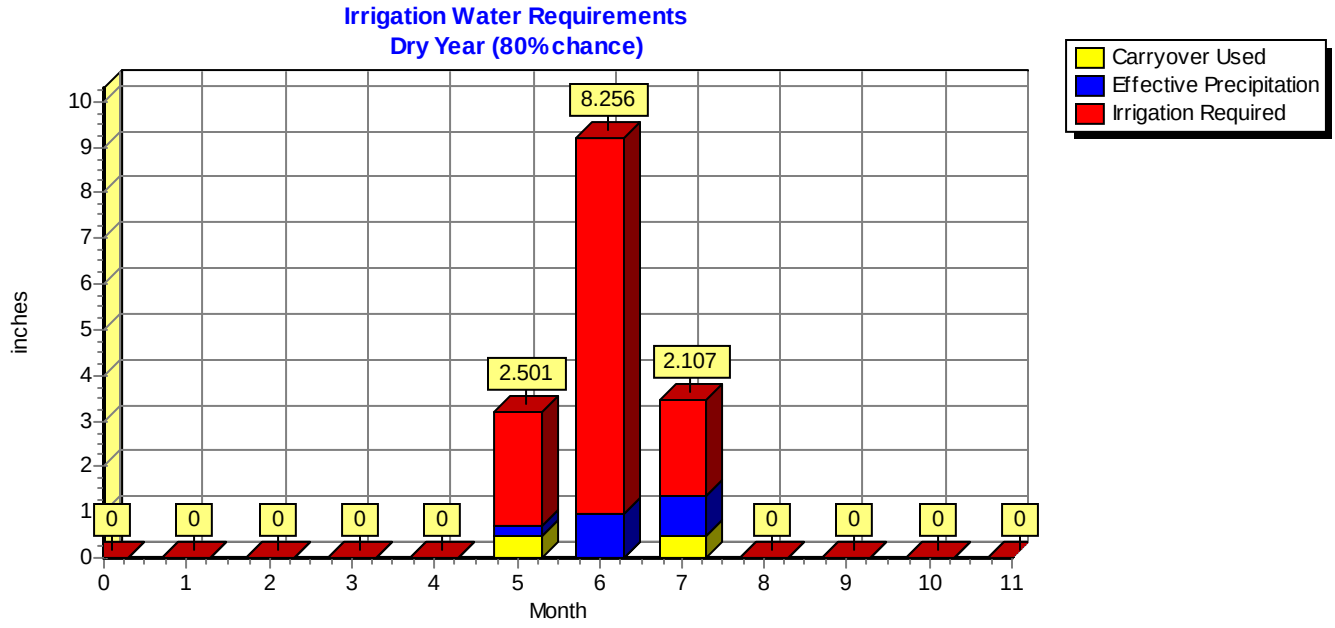
Crop Curve: **Blaney Criddle Annual Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches





Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **5/1** End Growth: **7/30**

Crop: **Oat hay**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	4.30	0.29	3.51	0.39	3.40	0.14	
June	7.55	0.25	7.30	0.35	7.20	0.25	0.28
July	3.25	0.66	2.08	0.90	1.84	0.11	
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	**15.09**	**1.20**	**12.89**	**1.64**	**12.45**		

(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: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

Begin Growth: **5/1** End Growth: **7/30**

Crop: **Oat hay**

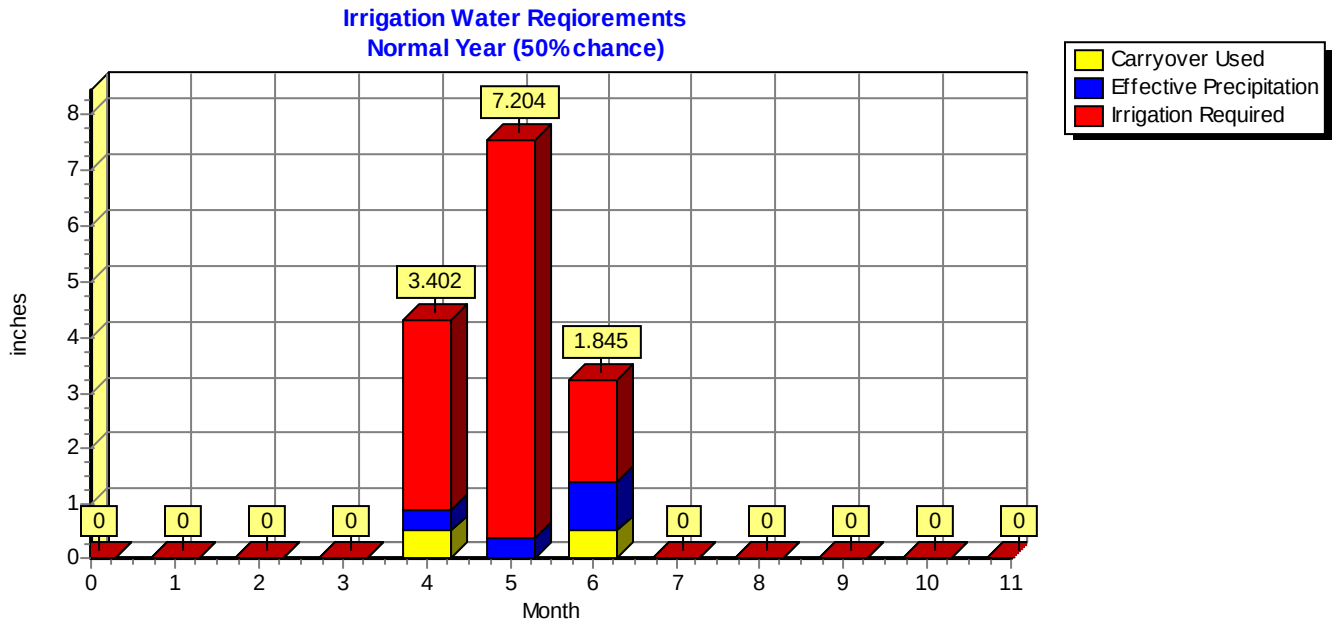
Date: **01/25/05**

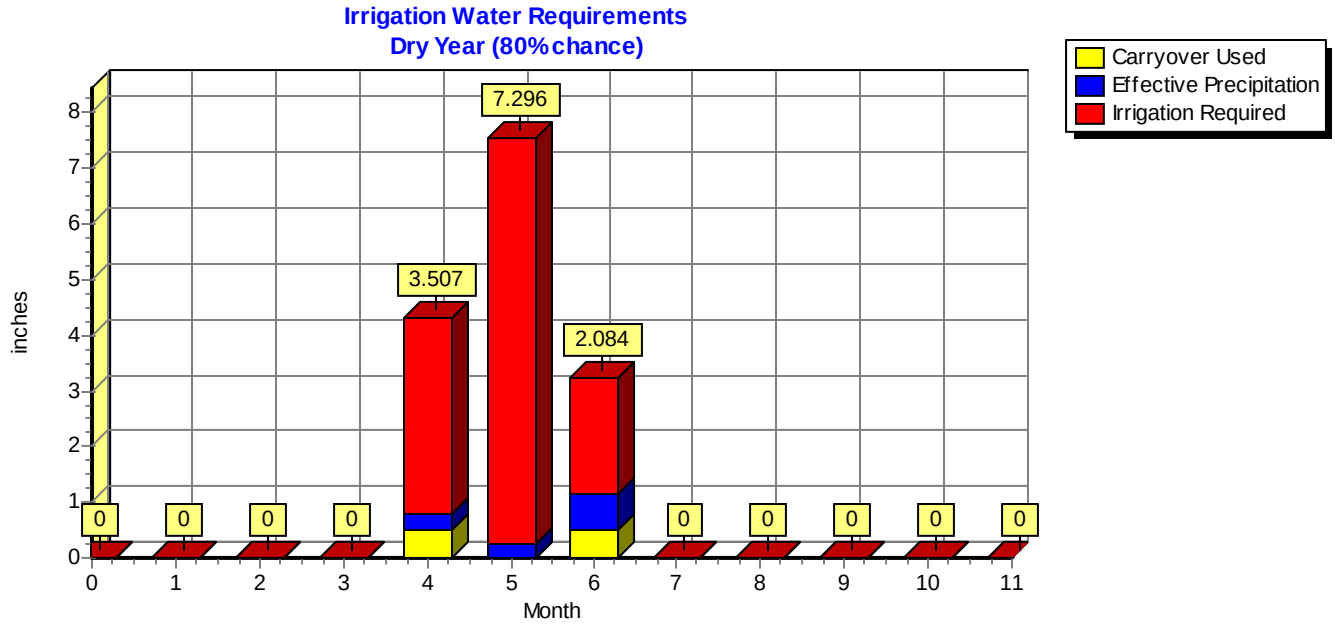
Crop Curve: **Blaney Criddle Annual Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches





Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Perennial Crop**
Begin Growth: **5/1** End Growth: **9/30**

Crop: **Pasture, cool season grass**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	2.85	0.27	2.09	0.36	1.99	0.09	
June	5.60	0.23	5.37	0.31	5.29	0.19	0.20
July	6.96	0.84	6.12	1.14	5.82	0.22	0.25
August	6.11	1.02	5.09	1.38	4.73	0.20	0.22
September	3.84	0.50	2.84	0.68	2.66	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	**25.36**	**2.85**	**21.51**	**3.88**	**20.48**		

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

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

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

Date: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

Begin Growth: **5/1** End Growth: **9/30**

Crop: **Pasture, cool season grass**

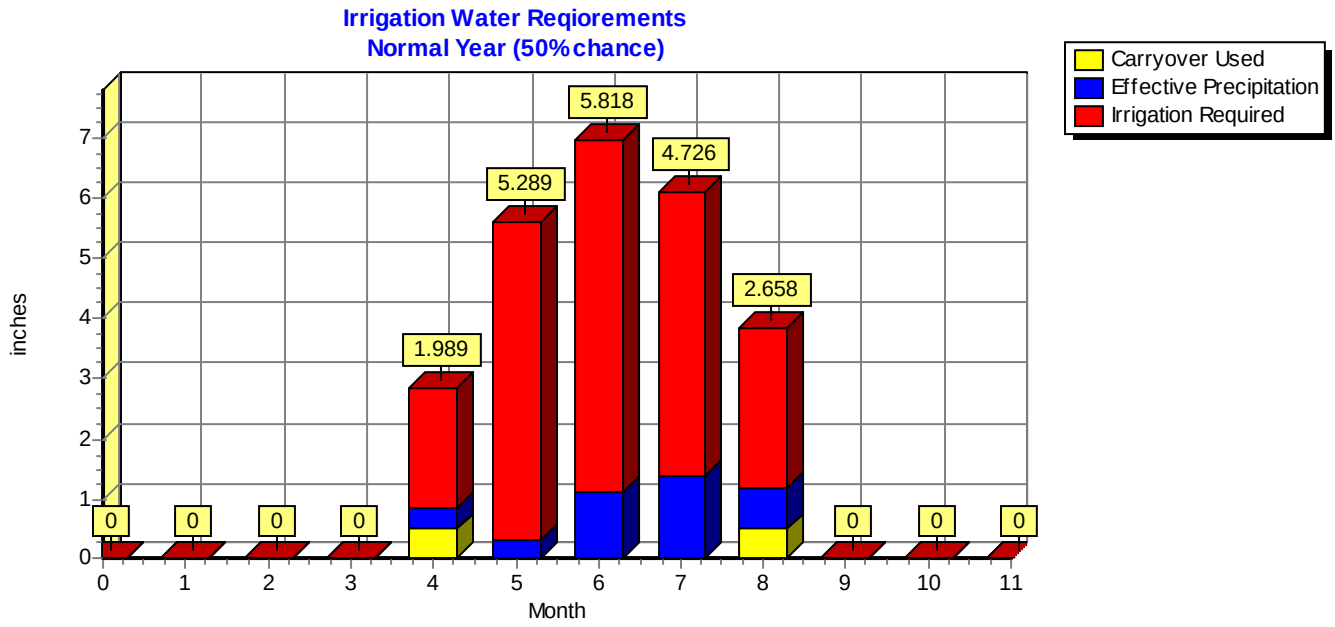
Date: **01/25/05**

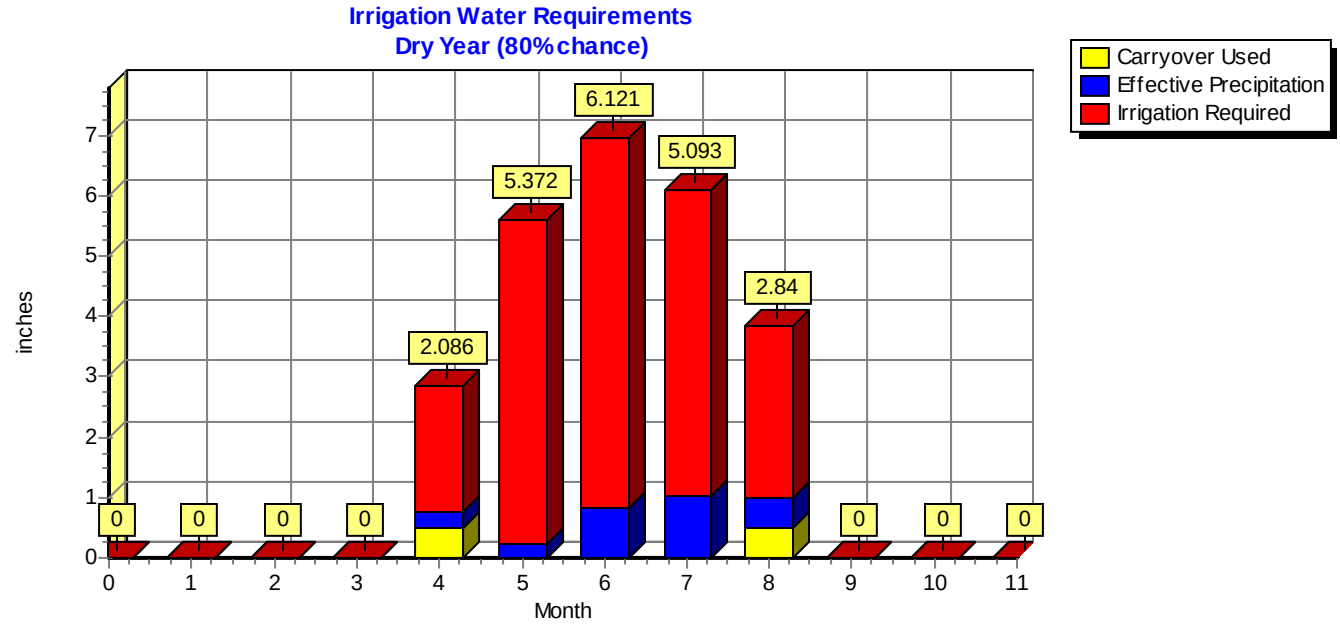
Crop Curve: **Blaney Criddle Perennial Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches





Irrigation Water Requirements
Crop Data Summary

Job: **Crownpoint**
Location: **Gallup**
By: **Rhett**
Weather Station: **GALLUP FAA AP**
Latitude: **3531** Longitude: **10847**
Computation Method: **Blaney Criddle (TR21)**
Crop Curve: **Blaney Criddle Annual Crop**
Begin Growth: **9/1** End Growth: **5/30**

Crop: **Wheat, winter, grain**
County: **Mckinley, NM**
Date: **01/25/05**
Sta No: **NM3422**
Elevation: **6470** feet above sea level

Net irrigation application: **2** inches
Estimated carryover moisture used at season:
Begin: **0.5** inches End: **0.5** 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	0.57	0.33	0.24	0.45	0.12	0.02	0.02
February	0.82	0.28	0.55	0.38	0.45	0.03	0.03
March	1.58	0.37	1.20	0.50	1.07	0.05	0.06
April	2.85	0.22	2.62	0.31	2.54	0.09	0.10
May	5.22	0.31	4.42	0.42	4.30	0.17	
June	0.00	0.00	0.00	0.00	0.00	0.00	
July	0.00	0.00	0.00	0.00	0.00	0.00	
August	0.00	0.00	0.00	0.00	0.00	0.00	
September	1.72	0.44	0.78	0.60	0.62	0.06	
October	1.01	0.43	0.58	0.58	0.43	0.03	0.04
November	0.55	0.37	0.19	0.50	0.05	0.02	0.02
December	0.51	0.27	0.23	0.37	0.13	0.02	0.02
TOTAL	**14.82**	**3.02**	**10.80**	**4.11**	**9.71**		

(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: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Crownpoint**

Location: **Gallup**

Computation Method: **Blaney Criddle (TR21)**

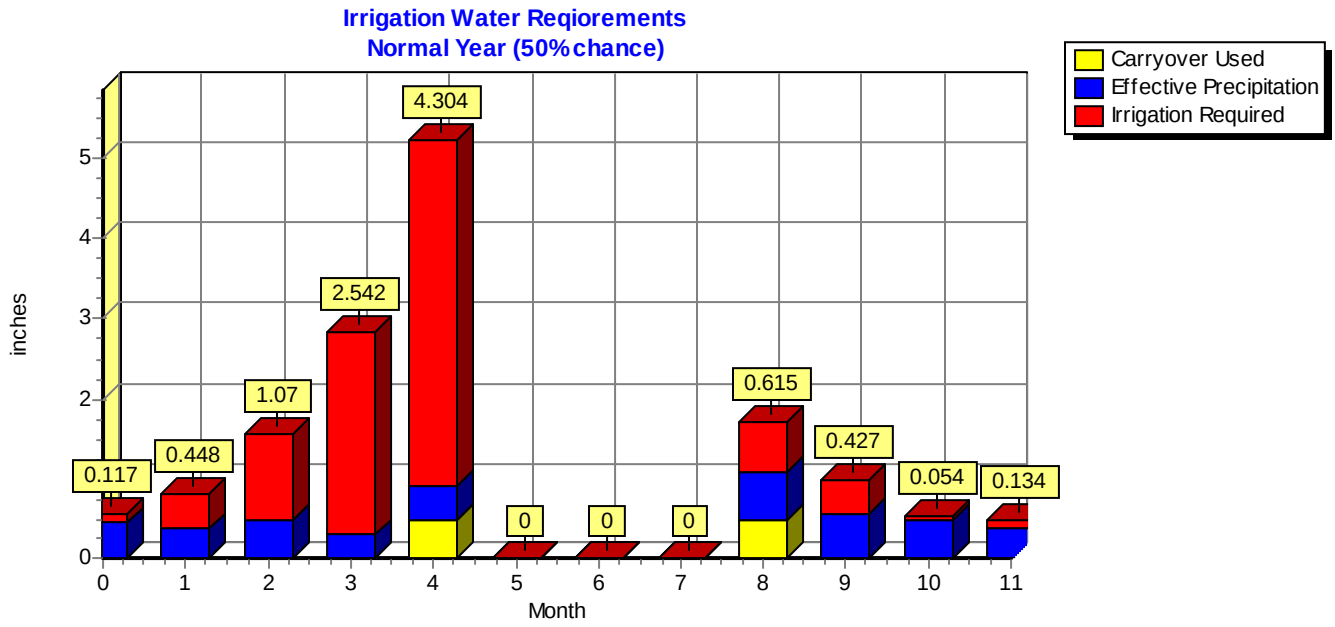
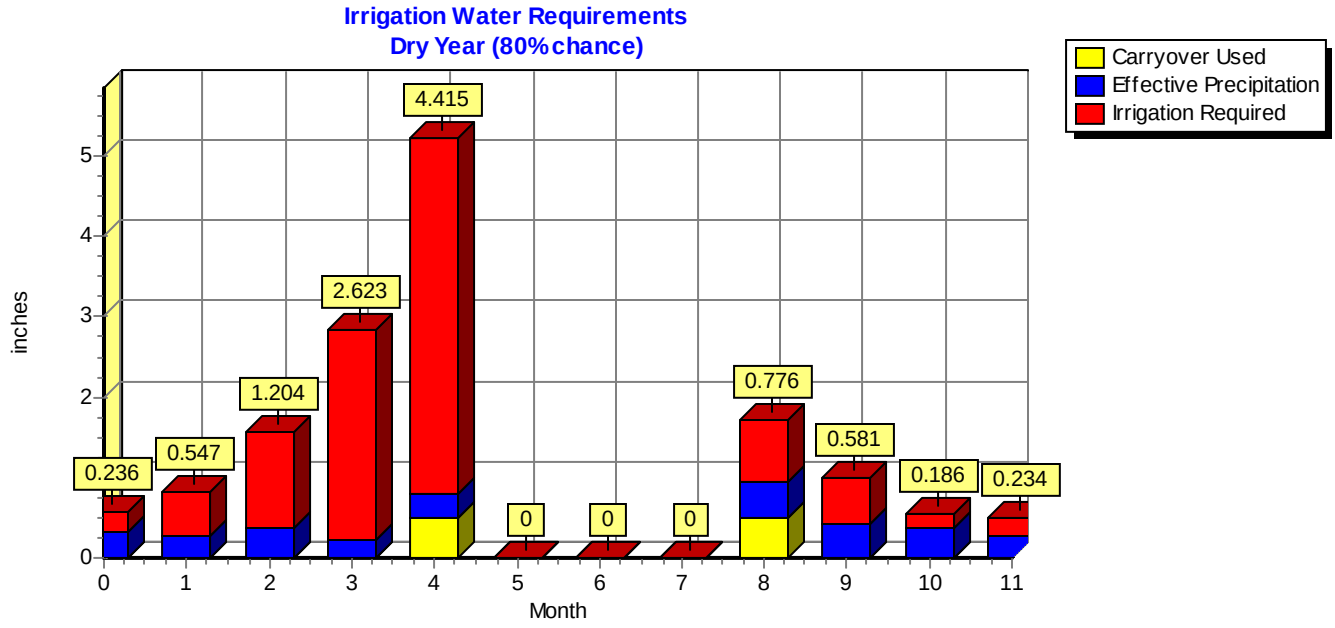
Begin Growth: **9/1** End Growth: **5/30**

Crop: **Wheat, winter, grain**

Date: **01/25/05**

Crop Curve: **Blaney Criddle Annual Crop**

Net irrigation application: **2** inches

Estimated carryover moisture used at season:

Begin: **0.5** inches End **0.5** inches