

Irrigation Water Requirements

Crop Data Summary

Job: Raton Springer	Crop: Alfalfa, hay, northern
Location: Raton Springer	County: Colfax, NM
By: MAS	Date: 7/28/05
Weather Station: SPRINGER	Sta No: NM8501
Latitude: 3622 Longitude: 10435	Elevation: 5920 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 1 inches
Crop Curve: Blaney Criddle Perennial Crop	Estimated carryover moisture used at season:
Begin Growth: 3/15 End Growth: 10/15	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 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	0.86	0.16	0.19	0.21	0.15	0.05	
April	2.68	0.38	2.30	0.50	2.19	0.09	0.10
May	5.03	0.84	4.20	1.08	3.95	0.16	0.19
June	7.38	0.95	6.42	1.24	6.14	0.25	0.28
July	8.41	1.24	7.17	1.61	6.80	0.27	0.31
August	7.17	1.51	5.67	1.95	5.22	0.23	0.26
September	4.72	0.85	3.87	1.10	3.62	0.15	0.17
October	1.26	0.22	0.55	0.28	0.48	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	37.51	6.14	30.37	7.96	28.54		

(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: 7/28/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Raton Springer**

Crop: **Alfalfa, hay, northern**

Location: **Raton Springer**

Date: **7/28/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

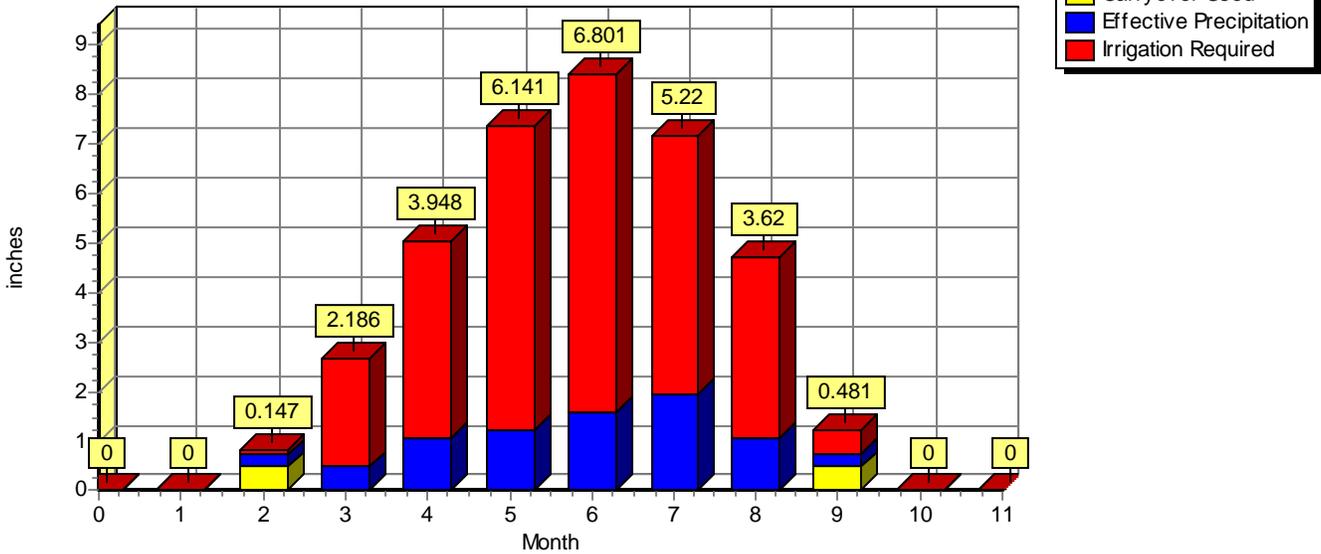
Begin Growth: **3/15** End Growth: **10/15**

Net irrigation application: **1** inches

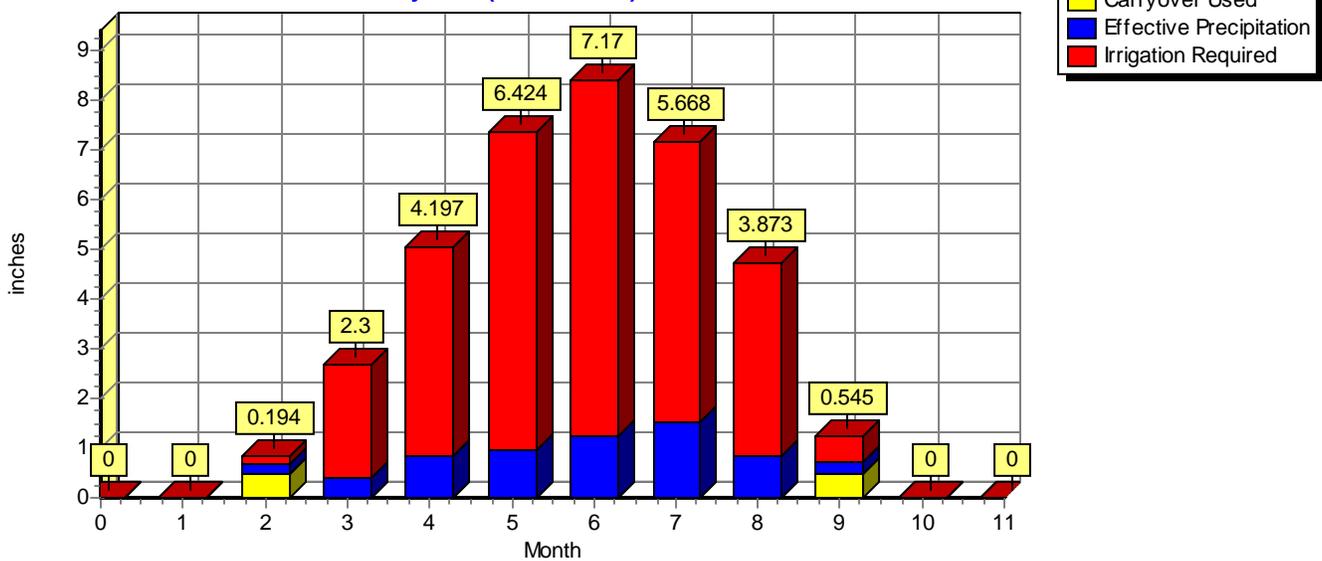
Estimated carryover moisture used at season:

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

**Irrigation Water Requirements
Normal Year (50% chance)**



**Irrigation Water Requirements
Dry Year (80% chance)**



Irrigation Water Requirements

Crop Data Summary

Job: Raton Springer	Crop: Corn, grain
Location: Raton Springer	County: Colfax, NM
By: MAS	Date: 7/28/05
Weather Station: SPRINGER	Sta No: NM8501
Latitude: 3622 Longitude: 10435	Elevation: 5920 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 1 inches
Crop Curve: Blaney Criddle Annual Crop	Estimated carryover moisture used at season:
Begin Growth: 5/2 End Growth: 9/30	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 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	1.79	0.65	0.63	0.85	0.44	0.06	
June	4.81	0.82	3.98	1.07	3.74	0.16	0.18
July	7.84	1.20	6.64	1.56	6.28	0.25	0.29
August	7.07	1.50	5.57	1.94	5.13	0.23	0.26
September	4.26	0.81	2.95	1.05	2.71	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	25.76	4.98	19.78	6.46	18.30		

(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: 7/28/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Raton Springer**

Crop: **Corn, grain**

Location: **Raton Springer**

Date: **7/28/05**

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

Crop Curve: **Blaney Criddle Annual Crop**

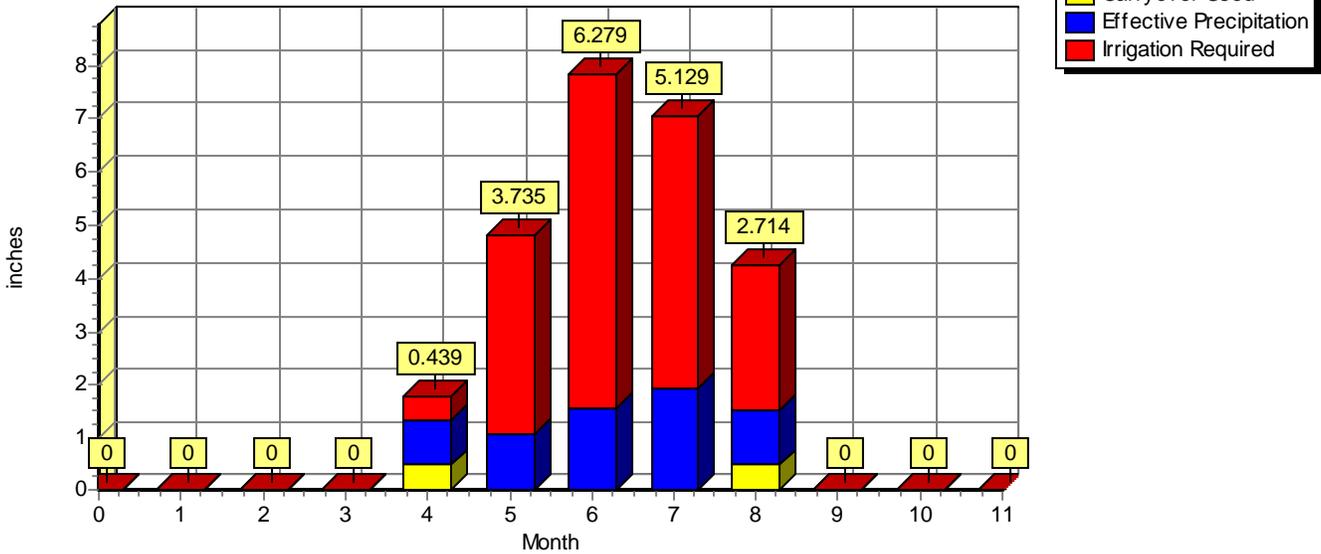
Begin Growth: **5/2** End Growth: **9/30**

Net irrigation application: **1** inches

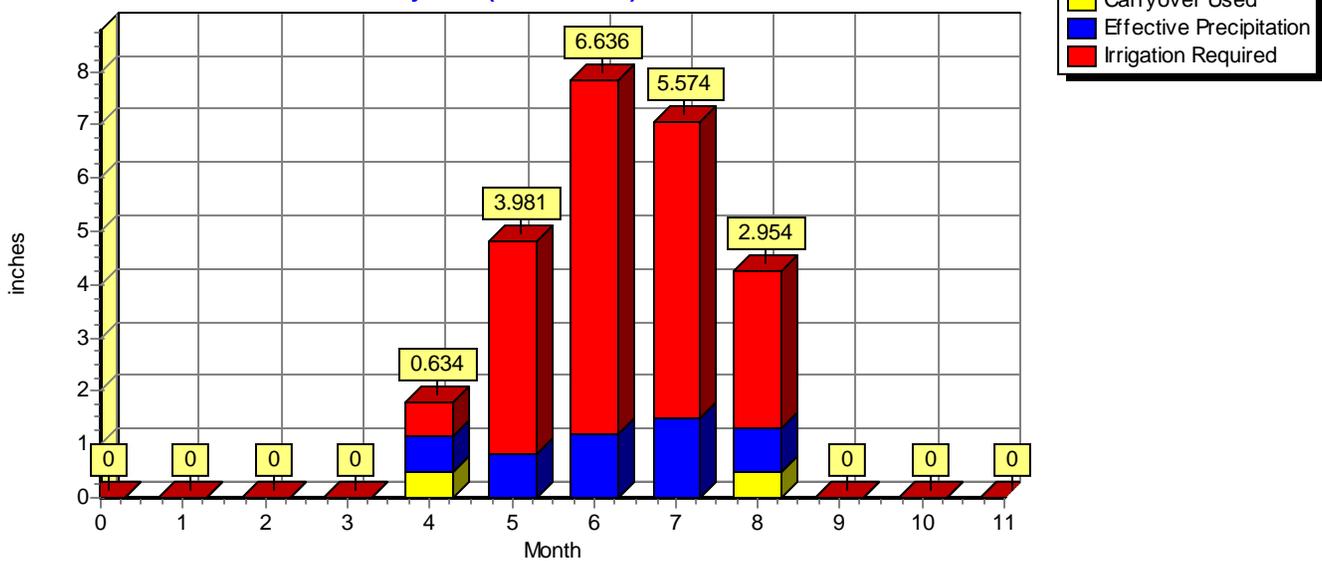
Estimated carryover moisture used at season:

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

Irrigation Water Requirements
Normal Year (50% chance)



Irrigation Water Requirements
Dry Year (80% chance)



Irrigation Water Requirements

Crop Data Summary

Job: Raton Springer	Crop: Grain, spring
Location: Raton Springer	County: Colfax, NM
By: MAS	Date: 7/28/05
Weather Station: SPRINGER	Sta No: NM8501
Latitude: 3622 Longitude: 10435	Elevation: 5920 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 1 inches
Crop Curve: Blaney Criddle Annual Crop	Estimated carryover moisture used at season:
Begin Growth: 3/2 End Growth: 6/30	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 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	0.68	0.28	0.00	0.36	0.00	0.02	
April	3.00	0.39	2.51	0.51	2.32	0.10	0.11
May	5.40	0.85	4.55	1.11	4.29	0.17	0.20
June	2.49	0.72	1.26	0.94	1.05	0.08	
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	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	11.57	2.24	8.32	2.91	7.65		

(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: 7/28/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Raton Springer**

Crop: **Grain, spring**

Location: **Raton Springer**

Date: **7/28/05**

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

Crop Curve: **Blaney Criddle Annual Crop**

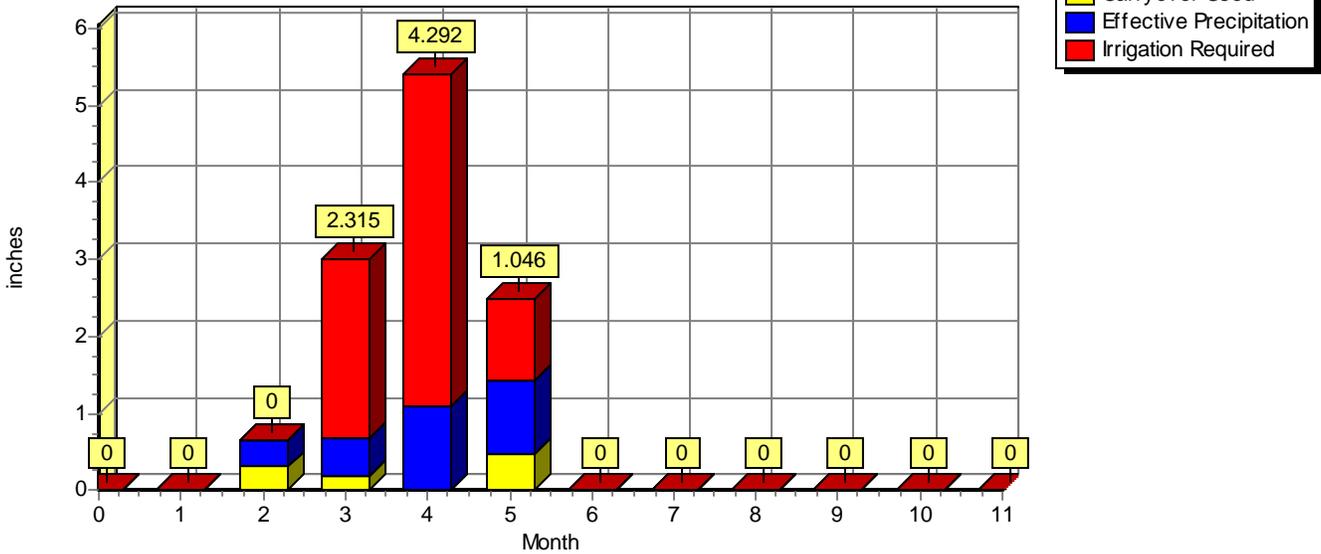
Begin Growth: **3/2** End Growth: **6/30**

Net irrigation application: **1** inches

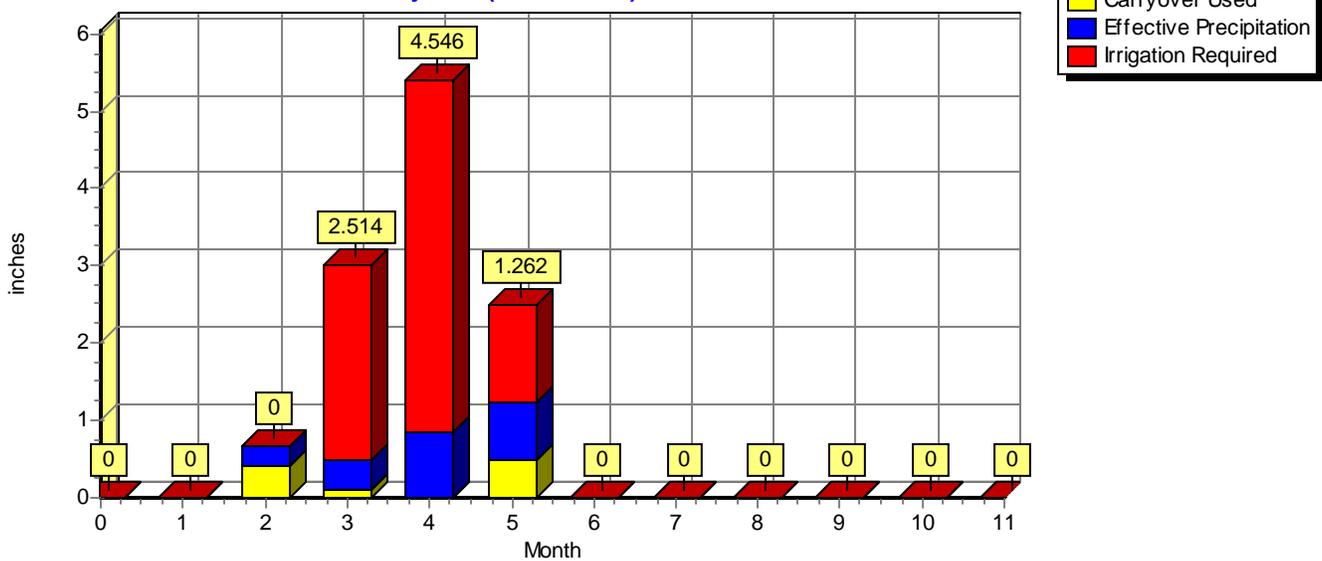
Estimated carryover moisture used at season:

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

**Irrigation Water Requirements
Normal Year (50% chance)**



**Irrigation Water Requirements
Dry Year (80% chance)**



Irrigation Water Requirements

Crop Data Summary

Job: Raton Springer	Crop: Pasture, cool season grass
Location: Raton Springer	County: Colfax, NM
By: MAS	Date: 7/28/05
Weather Station: SPRINGER	Sta No: NM8501
Latitude: 3622 Longitude: 10435	Elevation: 5920 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 1 inches
Crop Curve: Blaney Criddle Perennial Crop	Estimated carryover moisture used at season:
Begin Growth: 3/2 End Growth: 10/15	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 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	0.93	0.28	0.15	0.37	0.06	0.03	
April	2.33	0.37	1.95	0.49	1.84	0.08	0.09
May	4.18	0.80	3.38	1.03	3.15	0.13	0.15
June	6.03	0.88	5.15	1.15	4.89	0.20	0.23
July	6.99	1.14	5.84	1.48	5.50	0.23	0.26
August	6.13	1.42	4.71	1.84	4.28	0.20	0.23
September	4.14	0.82	3.32	1.06	3.07	0.13	0.15
October	1.12	0.21	0.40	0.27	0.34	0.07	
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	31.83	5.93	24.90	7.70	23.13		

(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: 7/28/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Raton Springer**

Crop: **Pasture, cool season grass**

Location: **Raton Springer**

Date: **7/28/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

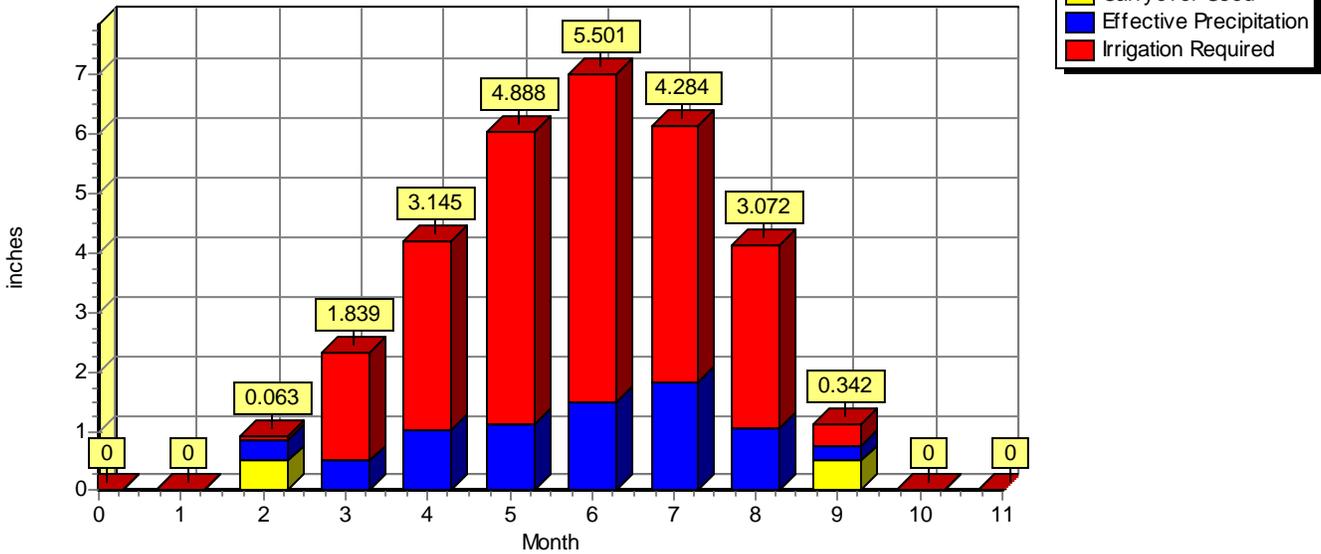
Begin Growth: **3/2** End Growth: **10/15**

Net irrigation application: **1** inches

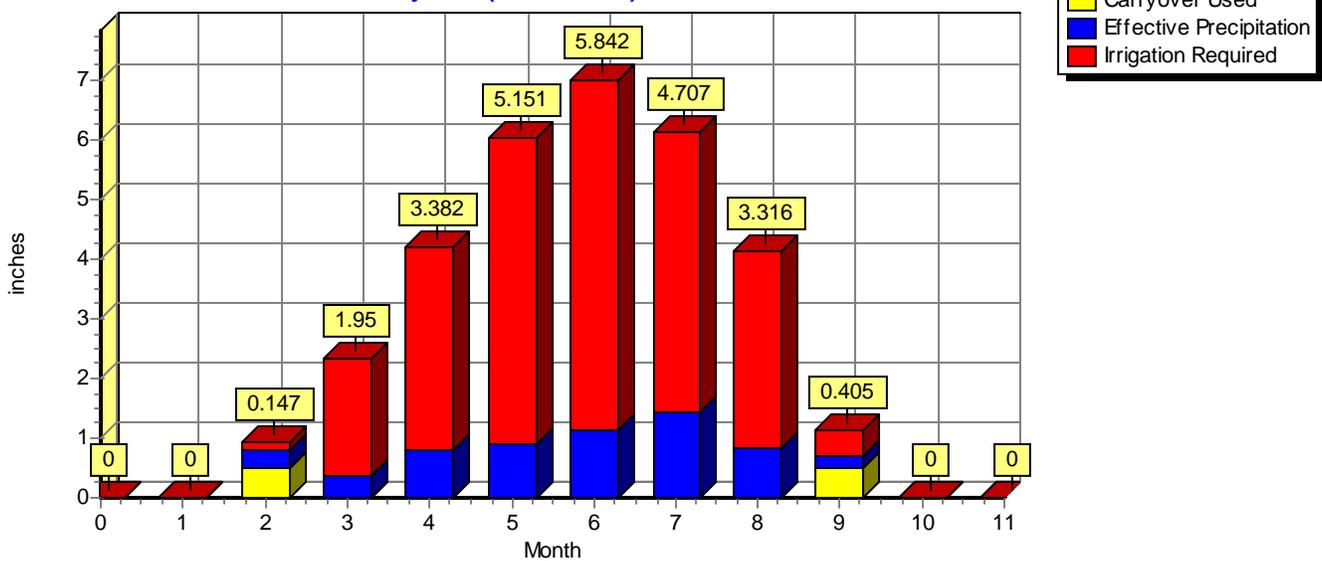
Estimated carryover moisture used at season:

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

**Irrigation Water Requirements
Normal Year (50% chance)**



**Irrigation Water Requirements
Dry Year (80% chance)**



Irrigation Water Requirements

Crop Data Summary

Job: Raton Springer	Crop: Sorghum, grain
Location: Raton Springer	County: Colfax, NM
By: MAS	Date: 7/28/05
Weather Station: SPRINGER	Sta No: NM8501
Latitude: 3622 Longitude: 10435	Elevation: 5920 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 1 inches
Crop Curve: Blaney Criddle Annual Crop	Estimated carryover moisture used at season:
Begin Growth: 5/2 End Growth: 9/30	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 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	1.44	0.64	0.30	0.83	0.11	0.05	
June	5.20	0.84	4.36	1.09	4.11	0.17	0.20
July	8.01	1.21	6.80	1.57	6.44	0.26	0.29
August	6.13	1.42	4.71	1.84	4.29	0.20	0.23
September	3.03	0.75	1.78	0.97	1.55	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	23.82	4.87	17.96	6.32	16.51		

(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: 7/28/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Raton Springer**

Crop: **Sorghum, grain**

Location: **Raton Springer**

Date: **7/28/05**

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

Crop Curve: **Blaney Criddle Annual Crop**

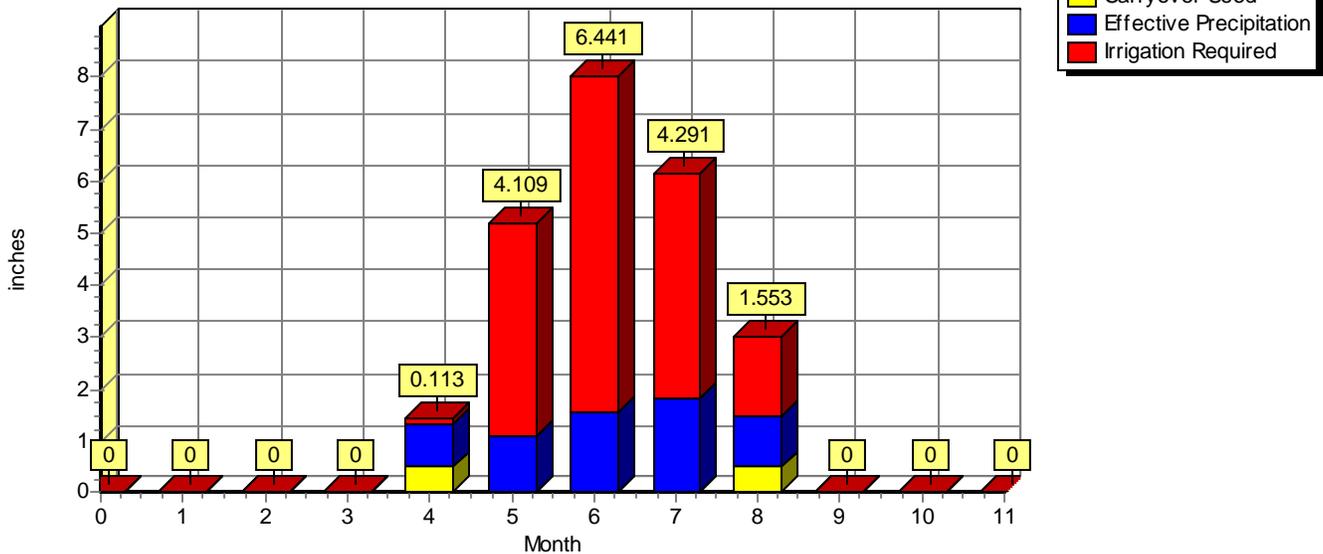
Begin Growth: **5/2** End Growth: **9/30**

Net irrigation application: **1** inches

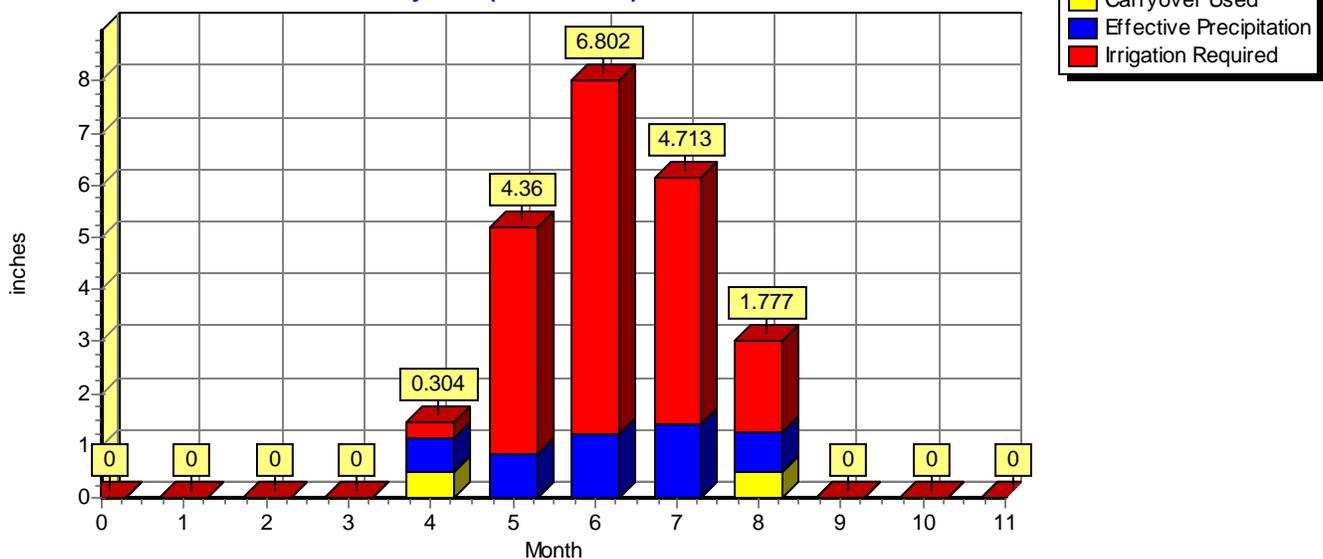
Estimated carryover moisture used at season:

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

Irrigation Water Requirements
Normal Year (50% chance)



Irrigation Water Requirements
Dry Year (80% chance)



Irrigation Water Requirements

Crop Data Summary

Job: Raton Springer	Crop: Windbreak
Location: Raton Springer	County: Colfax, NM
By: MAS	Date: 7/28/05
Weather Station: SPRINGER	Sta No: NM8501
Latitude: 3622 Longitude: 10435	Elevation: 5920 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 1 inches
Crop Curve: Blaney Criddle Perennial Crop	Estimated carryover moisture used at season:
Begin Growth: 4/1 End Growth: 10/30	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 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	1.39	0.34	0.55	0.45	0.45	0.05	
May	4.01	0.79	3.22	1.02	2.99	0.13	0.15
June	6.26	0.89	5.37	1.16	5.10	0.21	0.24
July	7.17	1.16	6.01	1.50	5.67	0.23	0.26
August	5.48	1.37	4.11	1.78	3.70	0.18	0.20
September	2.59	0.75	1.75	0.98	1.41	0.08	0.10
October	0.80	0.39	0.00	0.51	0.00	0.03	
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	27.71	5.70	21.02	7.39	19.32		

(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 moisture used at the end of the growing season.

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

Date: 7/28/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Raton Springer**

Crop: **Windbreak**

Location: **Raton Springer**

Date: **7/28/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

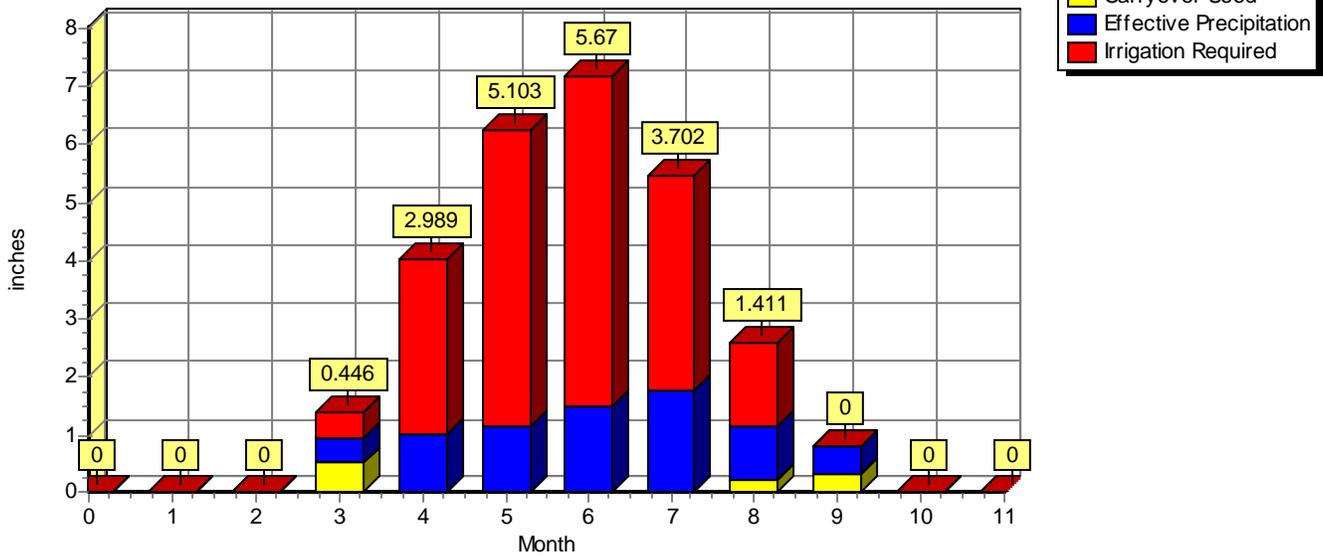
Begin Growth: **4/1** End Growth: **10/30**

Net irrigation application: **1** inches

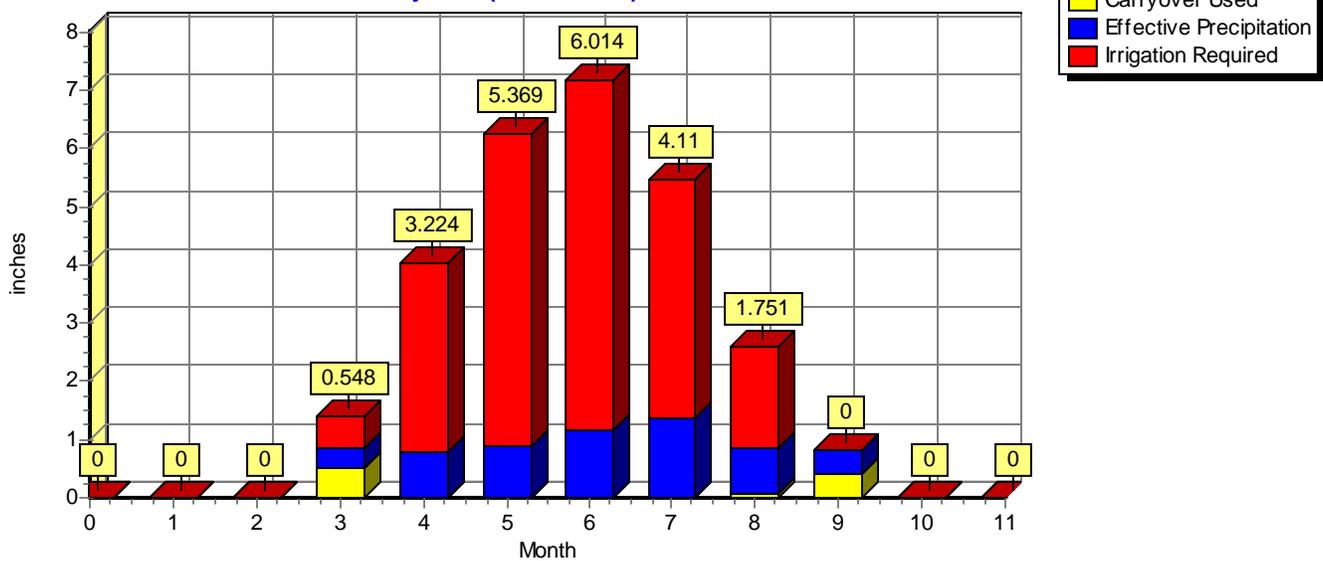
Estimated carryover moisture used at season:

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

**Irrigation Water Requirements
Normal Year (50% chance)**



**Irrigation Water Requirements
Dry Year (80% chance)**



Irrigation Water Requirements

Crop Data Summary

Job: Raton Springer	Crop: Wheat, winter, grain
Location: Raton Springer	County: Colfax, NM
By: MAS	Date: 7/28/05
Weather Station: SPRINGER	Sta No: NM8501
Latitude: 3622 Longitude: 10435	Elevation: 5920 feet above sea level
Computation Method: Blaney Criddle (TR21)	Net irrigation application: 1 inches
Crop Curve: Blaney Criddle Annual Crop	Estimated carryover moisture used at season:
Begin Growth: 8/15 End Growth: 6/30	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 Requirements inches (2)	Effective Precipitation inches	Net Irrigation Requirements inches (2)		
January	0.58	0.12	0.46	0.15	0.43	0.02	0.02
February	0.81	0.10	0.71	0.13	0.68	0.03	0.03
March	1.83	0.32	1.51	0.41	1.42	0.06	0.07
April	3.13	0.39	2.74	0.51	2.62	0.10	0.12
May	5.75	0.87	4.88	1.13	4.62	0.19	0.21
June	8.67	1.02	7.14	1.33	6.84	0.29	
July	0.00	0.00	0.00	0.00	0.00	0.00	
August	1.08	0.58	0.00	0.75	0.00	0.06	
September	1.64	0.71	0.92	0.93	0.54	0.05	0.06
October	1.24	0.41	0.82	0.54	0.70	0.04	0.05
November	0.69	0.25	0.44	0.32	0.37	0.02	0.03
December	0.52	0.11	0.41	0.14	0.38	0.02	0.02
TOTAL	25.93	4.88	20.05	6.33	18.60		

(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 moisture used at the end of the growing season.

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

Date: 7/28/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Raton Springer**

Crop: **Wheat, winter, grain**

Location: **Raton Springer**

Date: **7/28/05**

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

Crop Curve: **Blaney Criddle Annual Crop**

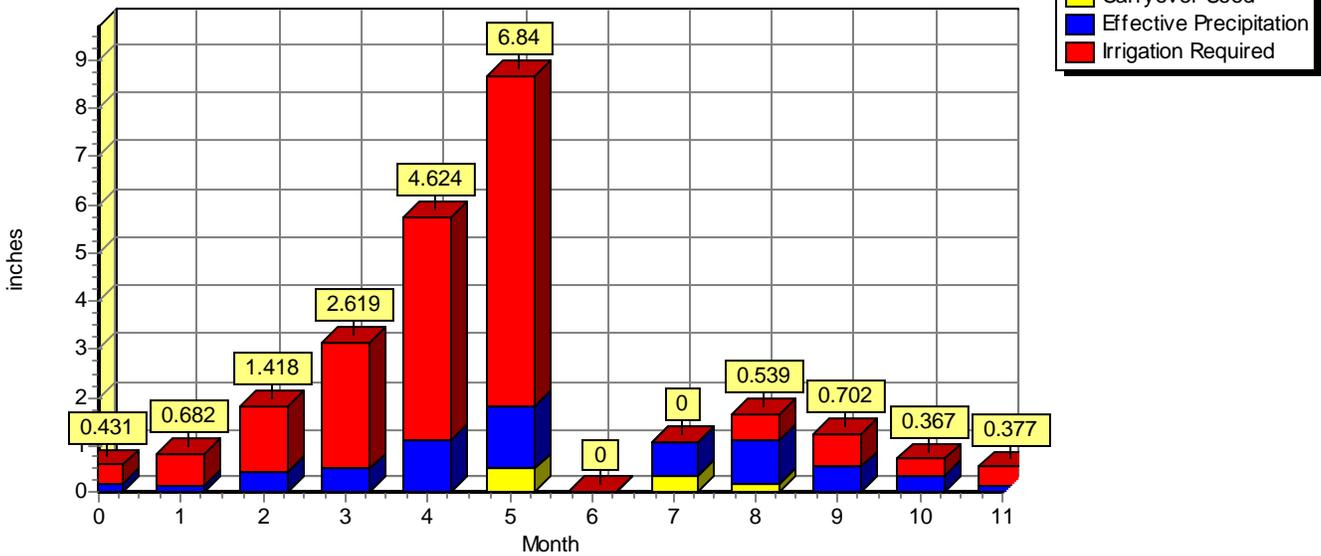
Begin Growth: **8/15** End Growth: **6/30**

Net irrigation application: **1** inches

Estimated carryover moisture used at season:

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

**Irrigation Water Requirements
Normal Year (50% chance)**



**Irrigation Water Requirements
Dry Year (80% chance)**

