

Irrigation Water Requirements

Crop Data Summary

Job: Artesia Mountain Area	Crop: Apples, mature w cover
Location: Chaves County	County: Chaves, NM
By: MAS	Date: 07/19/05
Weather Station: ELK 2 E	Sta No: NM2865
Latitude: 3257 Longitude: 10518	Elevation: 5730 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: 10/30	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	1.07	0.06	0.51	0.08	0.49	0.06	
April	3.12	0.20	2.92	0.25	2.87	0.10	0.12
May	5.38	0.52	4.86	0.66	4.72	0.17	0.20
June	7.40	1.14	6.26	1.46	5.93	0.25	0.28
July	7.89	1.30	6.59	1.67	6.22	0.25	0.29
August	6.79	1.56	5.23	2.01	4.78	0.22	0.25
September	4.65	1.25	3.40	1.61	3.04	0.15	0.17
October	2.73	0.54	1.69	0.70	1.53	0.09	
November	0.00	0.00	0.00	0.00	0.00	0.00	
December	0.00	0.00	0.00	0.00	0.00	0.00	
TOTAL	39.03	6.56	31.47	8.45	29.58		

(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: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Artesia Mountain Area**

Crop: **Apples, mature w cover**

Location: **Chaves County**

Date: **07/19/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

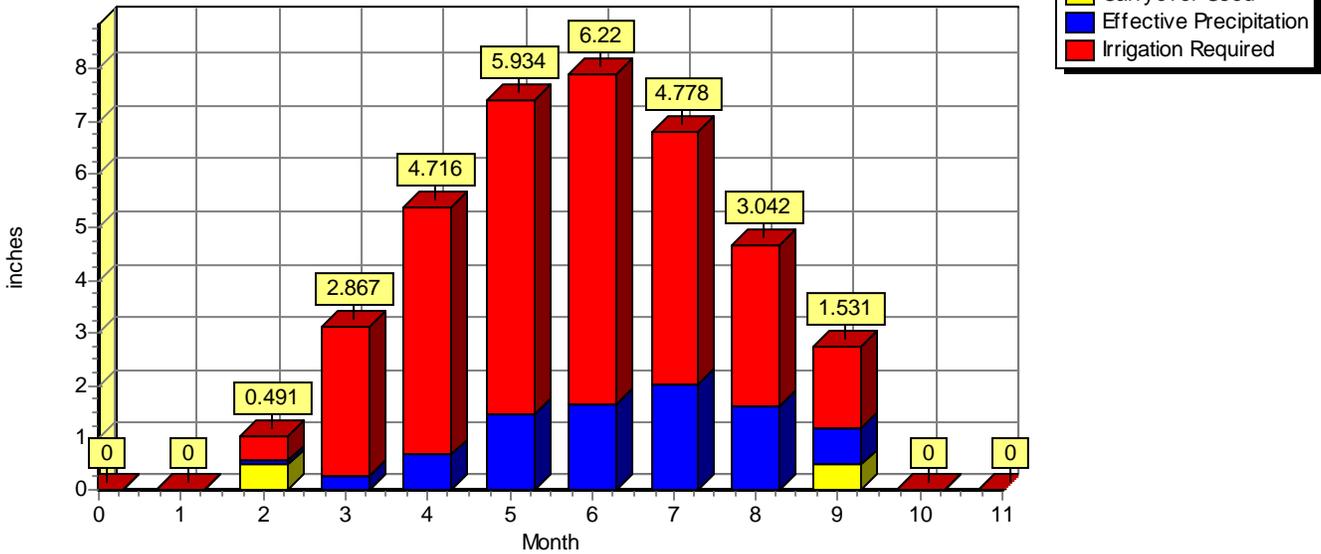
Begin Growth: **3/15** End Growth: **10/30**

Net irrigation application: **1** inches

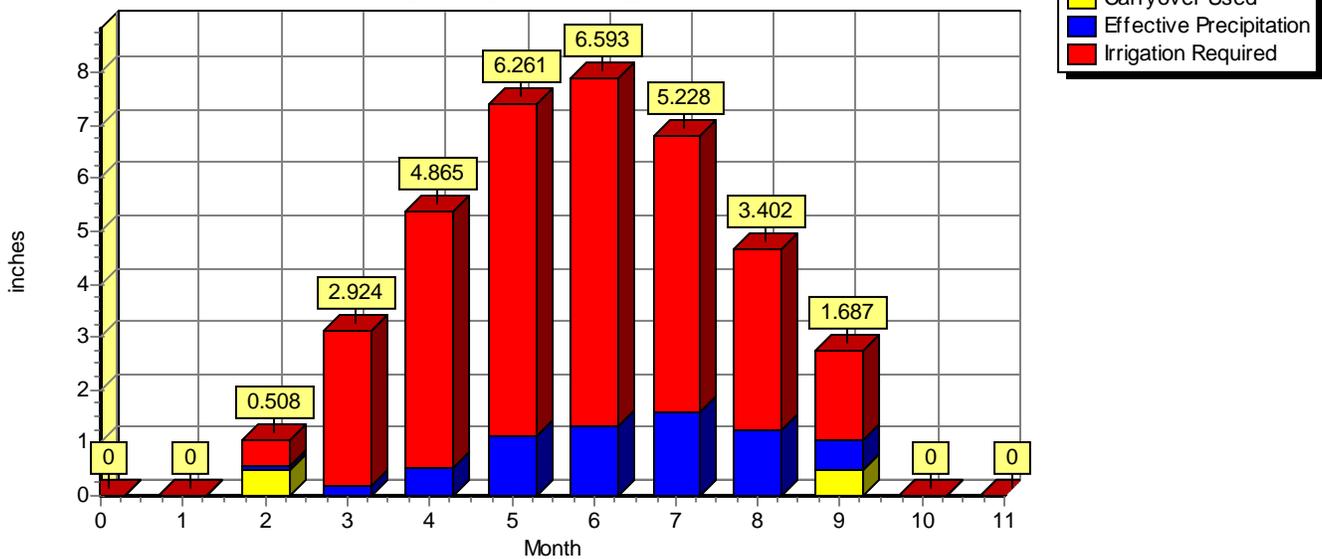
Estimated carryover moisture used at season:

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: Artesia Mountain Area	Crop: Apples, mature w/o cover
Location: Chaves County	County: Chaves, NM
By: MAS	Date: 07/19/05
Weather Station: ELK 2 E	Sta No: NM2865
Latitude: 3257 Longitude: 10518	Elevation: 5730 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: 4/15 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	0.00	0.00	0.00	0.00	0.00	0.00	
April	1.17	0.09	0.58	0.12	0.55	0.07	
May	4.27	0.48	3.79	0.62	3.65	0.14	0.16
June	6.28	1.07	5.21	1.38	4.91	0.21	0.24
July	6.73	1.21	5.51	1.56	5.16	0.22	0.25
August	5.19	1.43	3.76	1.84	3.35	0.17	0.19
September	2.55	1.11	1.19	1.43	0.80	0.08	0.09
October	0.50	0.25	0.00	0.32	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	26.69	5.65	20.04	7.27	18.41		

(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: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Artesia Mountain Area**

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

Location: **Chaves County**

Date: **07/19/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

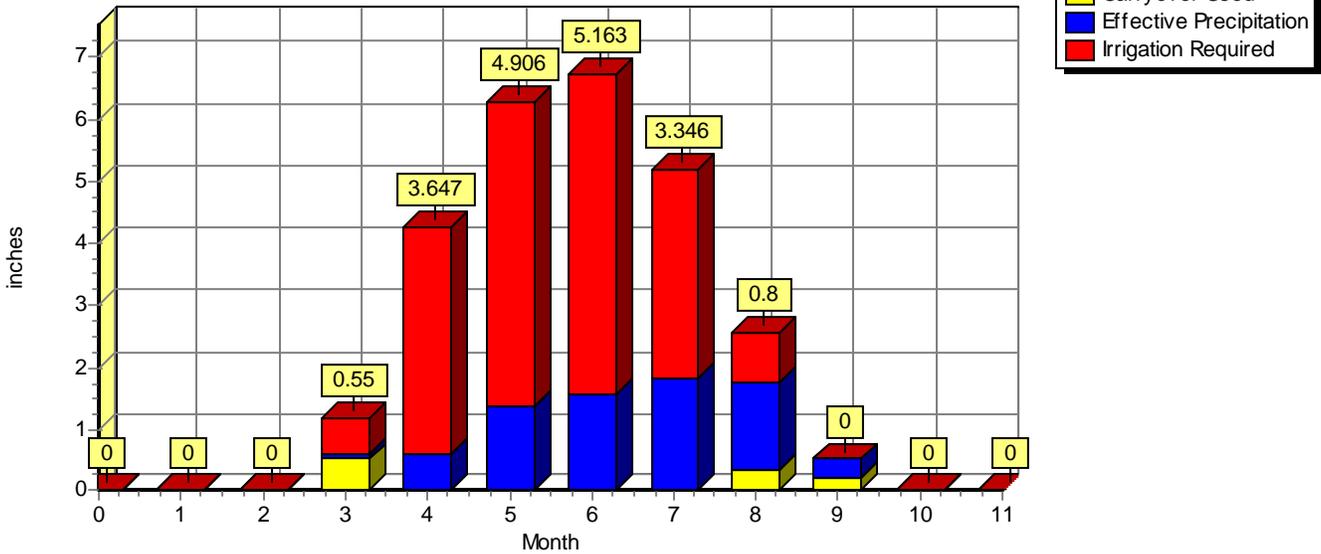
Begin Growth: **4/15** End Growth: **10/15**

Net irrigation application: **1** inches

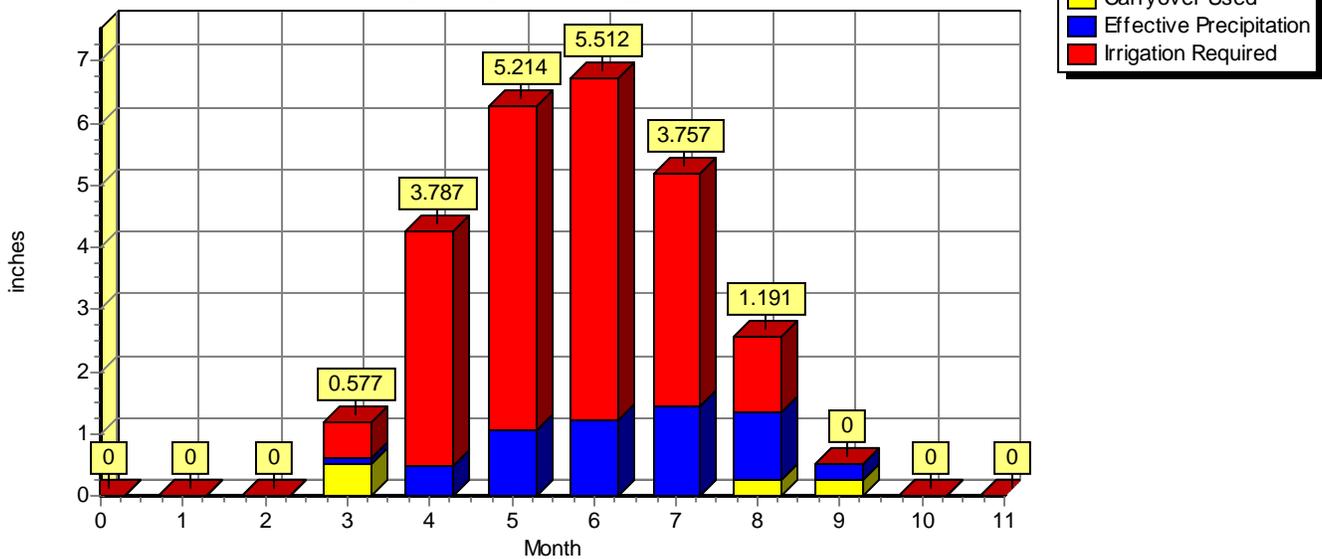
Estimated carryover moisture used at season:

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: Artesia Mountain Area	Crop: Pasture, cool season grass
Location: Chaves County	County: Chaves, NM
By: MAS	Date: 07/19/05
Weather Station: ELK 2 E	Sta No: NM2865
Latitude: 3257 Longitude: 10518	Elevation: 5730 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: 3/10 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	1.02	0.08	0.44	0.10	0.42	0.05	
April	2.71	0.19	2.51	0.25	2.46	0.09	0.10
May	4.45	0.49	3.96	0.63	3.82	0.14	0.16
June	6.05	1.05	5.00	1.36	4.69	0.20	0.23
July	6.55	1.20	5.35	1.55	5.01	0.21	0.24
August	5.80	1.48	4.32	1.90	3.90	0.19	0.21
September	4.08	1.21	2.87	1.56	2.52	0.13	0.15
October	2.40	0.53	1.36	0.69	1.21	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	33.05	6.24	25.81	8.04	24.02		

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

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

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

Date: 7/21/2005

Irrigation Water Requirements

Monthly Crop Water Requirements

Job: **Artesia Mountain Area**

Crop: **Pasture, cool season grass**

Location: **Chaves County**

Date: **07/19/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

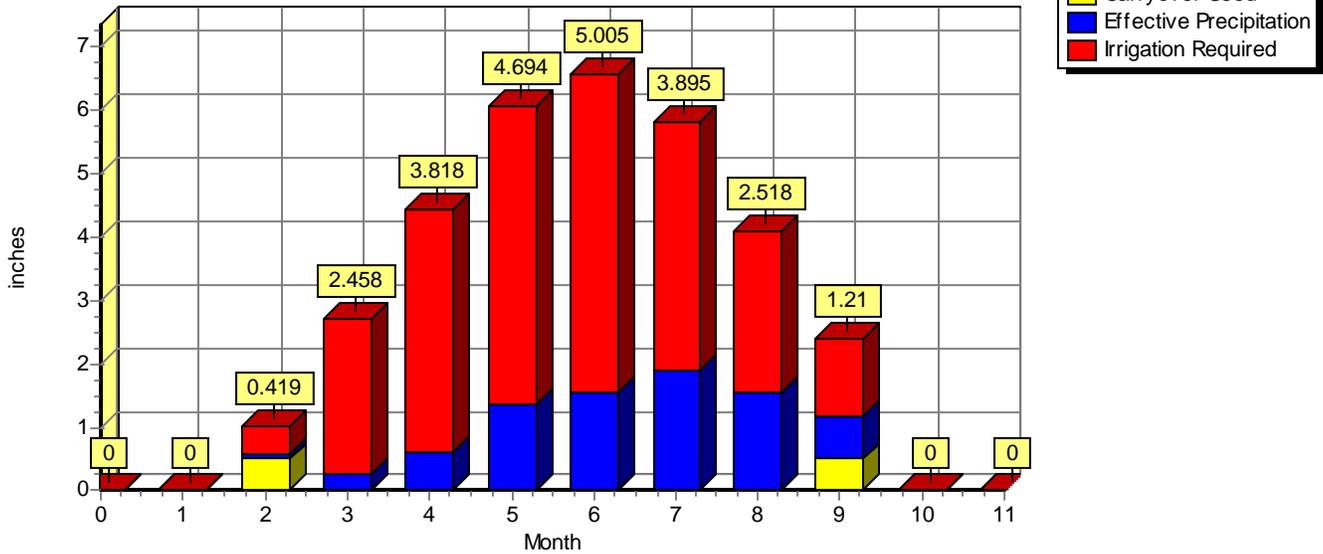
Begin Growth: **3/10** End Growth: **10/30**

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)**

