

# Irrigation Water Requirements

## Crop Data Summary

Job: <b>Carlsbad Mountain Area</b>	Crop: <b>Apples, mature w cover</b>
Location: <b>Eddy County</b>	County: <b>Chaves, NM</b>
By: <b>MAS</b>	Date: <b>07/19/05</b>
Weather Station: <b>ELK 2 E</b>	Sta No: <b>NM2865</b>
Latitude: <b>3257</b> Longitude: <b>10518</b>	Elevation: <b>5730</b> feet above sea level
Computation Method: <b>Blaney Criddle (TR21)</b>	Net irrigation application: <b>1</b> inches
Crop Curve: <b>Blaney Criddle Perennial Crop</b>	Estimated carryover moisture used at season:
Begin Growth: <b>4/15</b> End Growth: <b>10/15</b>	Begin: <b>0.5</b> inches      End: <b>0.5</b> 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	1.59	0.11	0.98	0.16	0.93	0.10	
May	5.35	0.24	5.11	0.35	5.00	0.17	0.20
June	8.00	0.08	7.92	0.11	7.89	0.27	0.30
July	9.54	0.48	9.06	0.69	8.85	0.31	0.35
August	8.03	0.57	7.46	0.82	7.21	0.26	0.30
September	5.22	0.39	4.83	0.56	4.66	0.17	0.19
October	1.34	0.15	0.69	0.22	0.62	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	
<b>TOTAL</b>	<b>39.07</b>	<b>2.02</b>	<b>36.05</b>	<b>2.92</b>	<b>35.15</b>		

(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: **Carlsbad Mountain Area**

Crop: **Apples, mature w cover**

Location: **Eddy County**

Date: **07/19/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

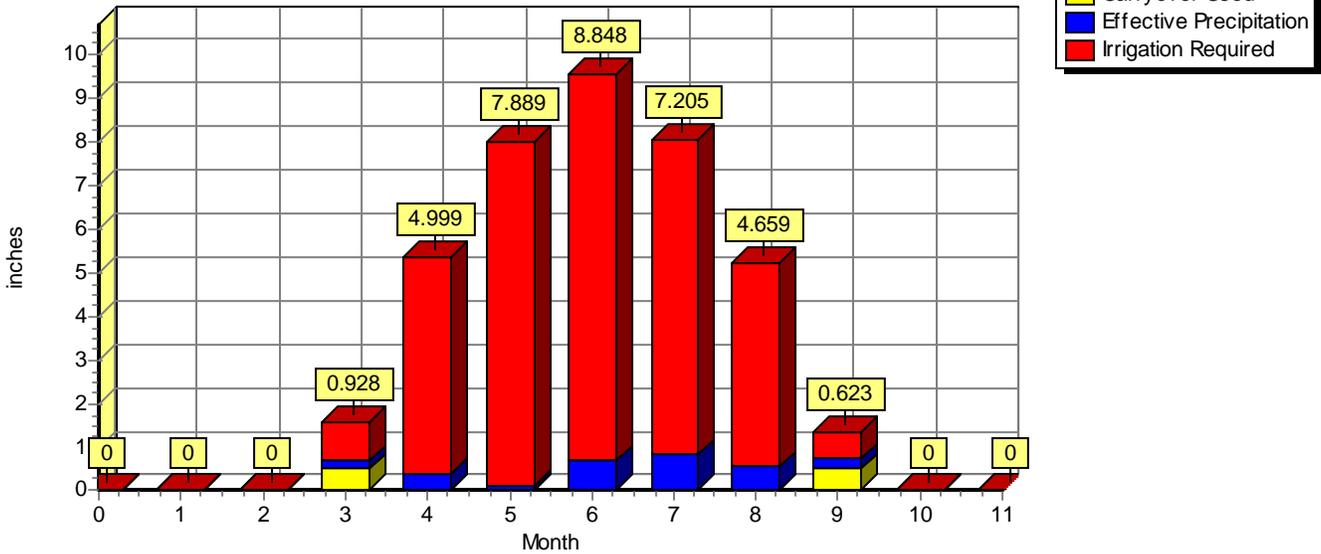
Begin Growth: **4/15**      End Growth: **10/15**

Net irrigation application: **1** inches

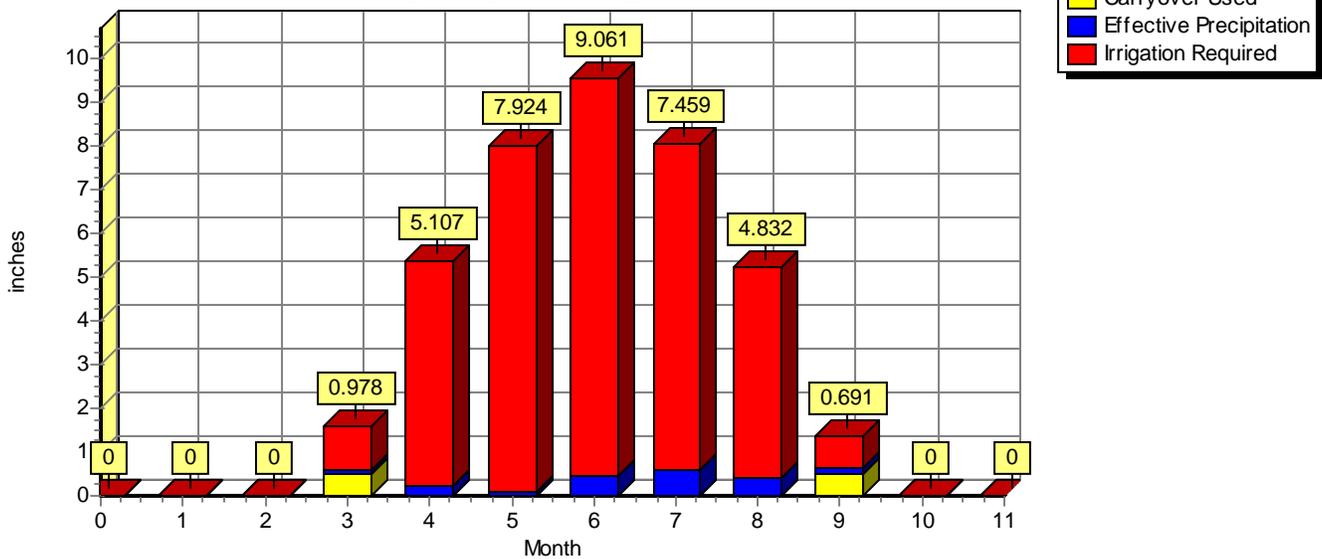
Estimated carryover moisture used at season:

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: <b>Carlsbad Mountain Area</b>	Crop: <b>Apples, mature w/o cover</b>
Location: <b>Eddy County</b>	County: <b>Chaves, NM</b>
By: <b>MAS</b>	Date: <b>07/19/05</b>
Weather Station: <b>ELK 2 E</b>	Sta No: <b>NM2865</b>
Latitude: <b>3257</b> Longitude: <b>10518</b>	Elevation: <b>5730</b> feet above sea level
Computation Method: <b>Blaney Criddle (TR21)</b>	Net irrigation application: <b>1</b> inches
Crop Curve: <b>Blaney Criddle Perennial Crop</b>	Estimated carryover moisture used at season:
Begin Growth: <b>4/15</b> End Growth: <b>10/15</b>	Begin: <b>0.5</b> inches      End: <b>0.5</b> 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	1.09	0.11	0.48	0.15	0.43	0.07	
May	4.25	0.23	4.02	0.33	3.92	0.14	0.16
June	6.80	0.07	6.72	0.11	6.69	0.23	0.26
July	8.13	0.44	7.69	0.64	7.50	0.26	0.30
August	6.13	0.51	5.62	0.74	5.39	0.20	0.23
September	2.86	0.34	2.36	0.49	2.15	0.09	0.11
October	0.47	0.14	0.00	0.20	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	
<b>TOTAL</b>	<b>29.73</b>	<b>1.84</b>	<b>26.89</b>	<b>2.66</b>	<b>26.07</b>		

(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: **Carlsbad Mountain Area**

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

Location: **Eddy County**

Date: **07/19/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

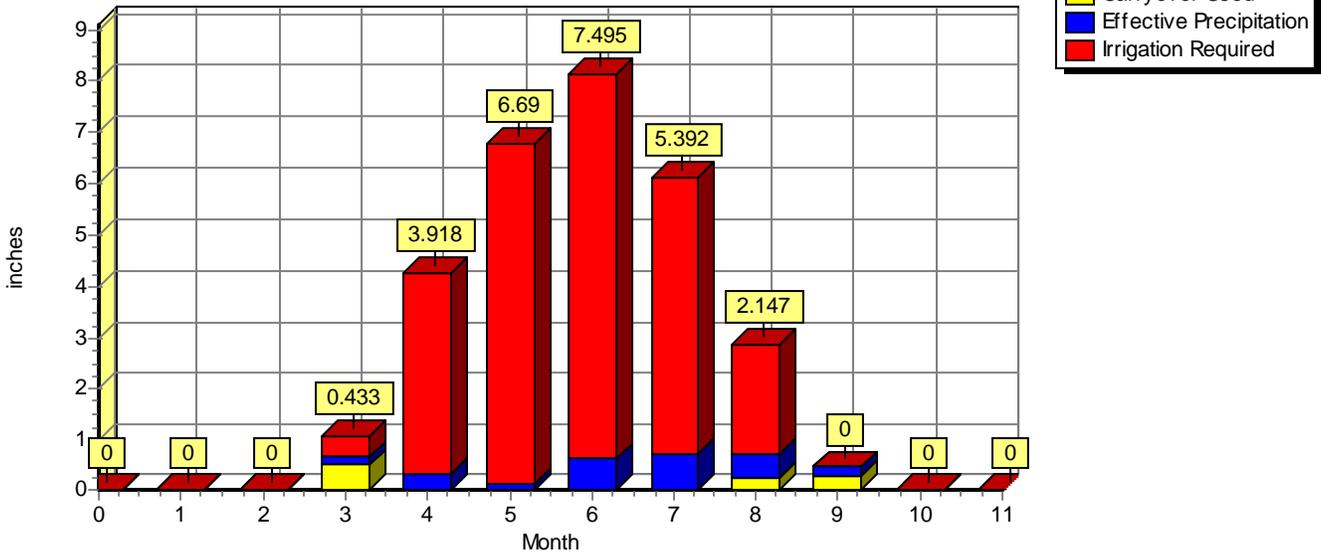
Begin Growth: **4/15**      End Growth: **10/15**

Net irrigation application: **1** inches

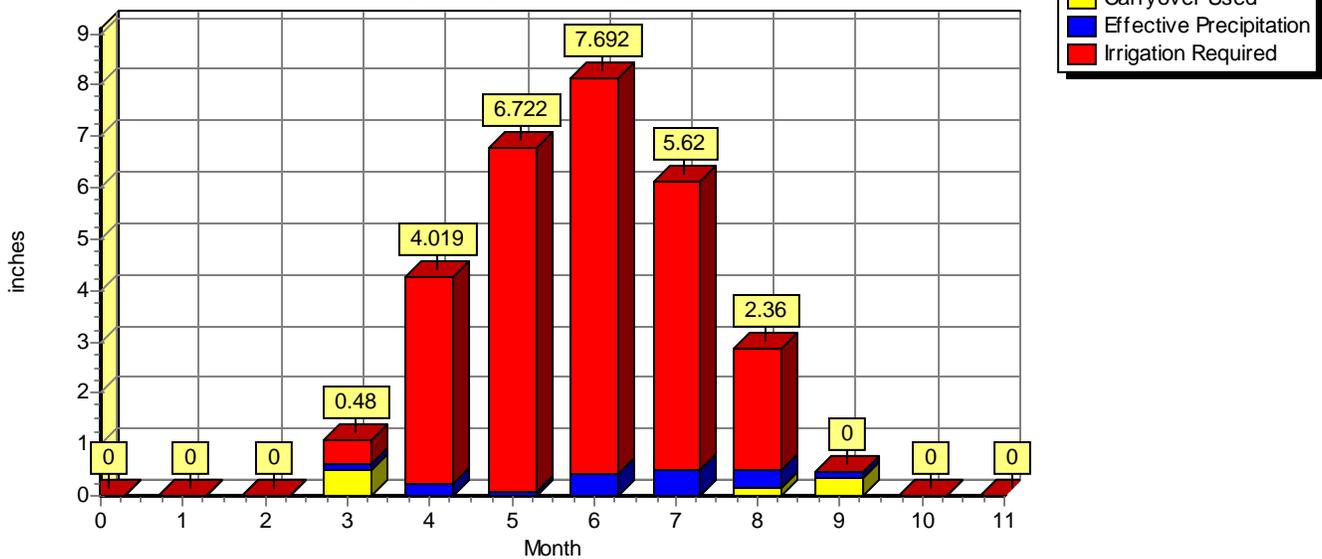
Estimated carryover moisture used at season:

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: <b>Carlsbad Mountain Area</b>	Crop: <b>Pasture, cool season grass</b>
Location: <b>Eddy County</b>	County: <b>Chaves, NM</b>
By: <b>MAS</b>	Date: <b>07/19/05</b>
Weather Station: <b>ELK 2 E</b>	Sta No: <b>NM2865</b>
Latitude: <b>3257</b> Longitude: <b>10518</b>	Elevation: <b>5730</b> feet above sea level
Computation Method: <b>Blaney Criddle (TR21)</b>	Net irrigation application: <b>1</b> inches
Crop Curve: <b>Blaney Criddle Perennial Crop</b>	Estimated carryover moisture used at season:
Begin Growth: <b>3/10</b> End Growth: <b>10/30</b>	Begin: <b>0.5</b> inches      End: <b>0.5</b> 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	0.81	0.17	0.15	0.24	0.07	0.04	
April	2.51	0.22	2.29	0.31	2.20	0.08	0.10
May	4.42	0.23	4.19	0.33	4.09	0.14	0.16
June	6.55	0.07	6.47	0.10	6.44	0.22	0.25
July	7.92	0.44	7.49	0.63	7.29	0.26	0.29
August	6.86	0.53	6.32	0.77	6.09	0.22	0.25
September	4.58	0.38	4.20	0.54	4.03	0.15	0.17
October	2.29	0.30	1.49	0.43	1.36	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	
<b>TOTAL</b>	<b>35.94</b>	<b>2.33</b>	<b>32.61</b>	<b>3.36</b>	<b>31.57</b>		

(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: **Carlsbad Mountain Area**

Crop: **Pasture, cool season grass**

Location: **Eddy County**

Date: **07/19/05**

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

Crop Curve: **Blaney Criddle Perennial Crop**

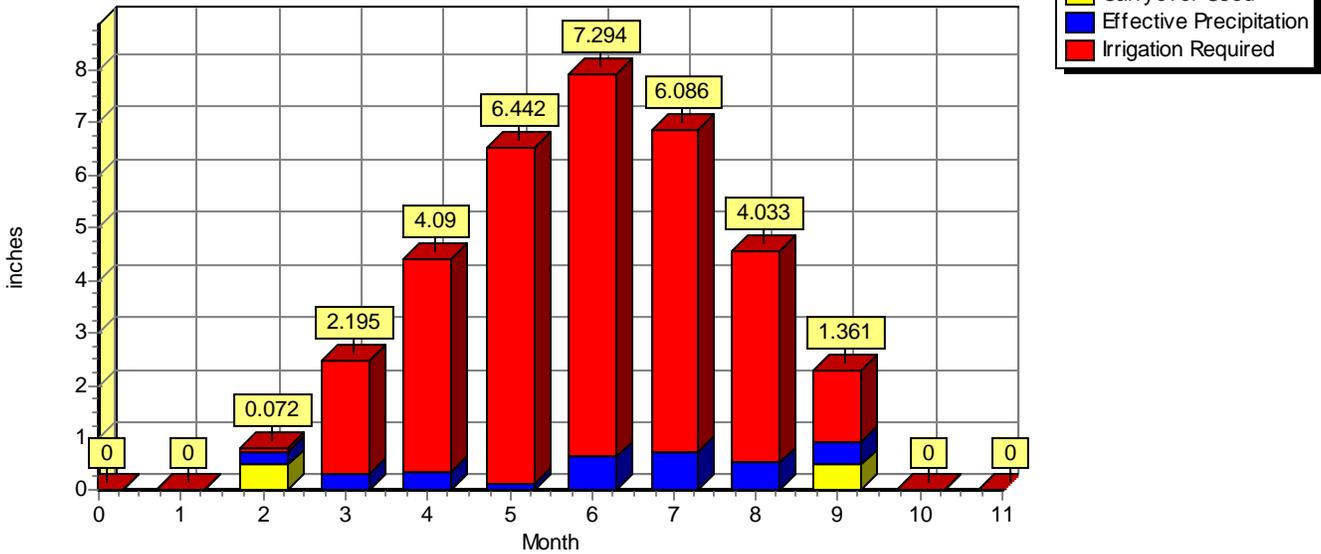
Begin Growth: **3/10**      End Growth: **10/30**

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)**

