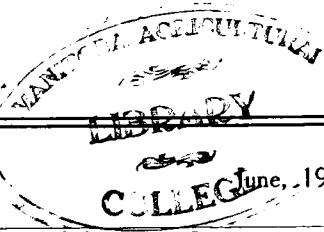


5  
1) Colorado

3) 4)  
Bulletin 275



2)  
The Agricultural Experiment Station  
OF THE  
Colorado Agricultural College

---

ORCHARD SURVEY OF THE  
WESTERN DISTRICT  
OF COLORADO

By E. P. SANDSTEN and C. M. TOMPKINS



---

PUBLISHED BY THE EXPERIMENT STATION

FORT COLLINS, COLORADO

1922

# The Colorado Agricultural College

FORT COLLINS, COLORADO

## THE STATE BOARD OF AGRICULTURE

	Term Expires
HON. H. D. PARKER.....	Greeley, 1923
MRS. AGNES L. RIDDLE.....	Denver, 1923
HON. J. C. BELL.....	Montrose, 1925
HON. E. M. AMMONS.....	Denver, 1925
HON. W. I. GIFFORD.....	Durango, 1927
HON. J. B. RYAN.....	Hesperus, 1927
HON. A. A. EDWARDS, President of the Board.....	Fort Collins, 1929
HON. J. S. CALKINS.....	Westminster, 1929
GOVERNOR OLIVER H. SHOUP { Ex-Officio	
PRESIDENT CHAS. A. LORY }.....	
L. M. TAYLOR, Secretary	G. A. WEBB, Treasurer

## EXECUTIVE COMMITTEE

A. A. EDWARDS, Chairman

E. M. AMMONS	H. D. PARKER
--------------	--------------

## OFFICERS OF THE EXPERIMENT STATION

CHAS. A. LORY, M.S., L.L.D., D.Sc.....	President
C. P. GILLETTE, M.S., D.Sc.....	Director
L D CRAIN, B.M.E., M.M.E.....	Vice-Director
L. M. TAYLOR.....	Secretary
ANNA T. BAKER.....	Executive Clerk

## STATION STAFF

### Agricultural Division

C. P. GILLETTE, M.S., D.Sc., Director.....	Entomologist
W. P. HEADDEN, A.M., Ph.D., D.Sc.....	Chemist
G H. GLOVER, M.S., D.V.M.....	Veterinarian
W. G. SACKETT, Ph. D.....	Bacteriologist
ALVIN KEZER, A.M.....	Agronomist
G. E. MORTON, B.S.A., M.S.....	Animal Husbandman
E. P. SANDSTEN, M.S., Ph.D.....	Horticulturist
B. O. LONGYEAR, B.S.....	Forestry Investigations
I. E. NEWSOM, B.S., D.V.S.....	Veterinary Pathologist
A. K. PEITERSEN, B.S., M.S., PhD.....	Botanist
R E TRIMBLE, B. S.....	Assistant in Irrigation Investigations
EARL DOUGLASS, M.S.....	Assistant in Chemistry
P. K. BLINN, B.S., Rocky Ford.....	Alfalfa Investigations
MIRIAM A. PALMER, M.A.....	Delineator
J. W. ADAMS, B.S., Cheyenne Wells.....	Assistant in Agronomy, Dry Farming
RALPH L. PARSHALL, B.S.U. S. Irrigation Engineer	Irrigation Investigations
CHARLES R. JONES, B. S., M.S.....	Assistant in Entomology
GEORGE M. LIST, B.S.....	Assistant in Entomology
CARL ROHWER, B.S., C.E.....	Assistant in Irrigation Investigations
CHAS. I. BRAY, B.S.A., M.S.....	Assistant to Animal Husbandman
E. J. MAYNARD, B.S.A., M.S.....	Specialist in Animal Investigations
W. L. BURNETT.....	Rodent Investigations
FLOYD CROSS, D.V.M.....	Assistant Veterinary Pathologist
WM. H. FELDMAN, D.V.M.....	Assistant Veterinary Pathologist
N. E. GOLDTHWAITE, Ph.D.....	Home Economics Investigations
CAROLINE PRESTON.....	Artist
J. H. NEWTON, B.S.....	Assistant Entomologist
J. L. HOERNER, B.S.....	Assistant in Entomology
J. W. TOBISSKA, B.S., M.A.....	Assistant in Chemistry
C. E. VAIL, B. S., M.A.....	Assistant in Chemistry
C. D. LEARN, B.S., M.A.....	Assistant in Botany
DAVID W. ROBERTSON, B.S., M.S.....	Assistant in Agronomy
LEON R. QUINLAN, B.S.....	Assistant in High Altitude Horticulture
I. G. KINGHORN.....	Editor
B. MILDRED BROWN, B.S.....	Assistant in Bacteriology
C. M. TOMPKINS, B.S.....	Assistant in Horticulture

### Engineering Division

L D CRAIN, B.M.E., M.M.E., Chairman.....	Vice-Director
E. B. HOUSE, B.S., (E.E.) M.S.....	Civil and Irrigation Engineering
O. V. ADAMS, B.S.....	Testing Engineering
G A. CUMMINGS, B.S.....	Assistant in Mechanical Engineering

# ORCHARD SURVEY OF THE WESTERN DISTRICT OF COLORADO

By E. P. SANDSTEN and C. M. TOMPKINS

## SURVEY OF DELTA COUNTY

Delta County is one of the older fruit-growing counties on the Western Slope. The general topography of the county is broken. It is traversed by the Gunnison and the Uncompahgre rivers; the irrigation facilities are highly developed; and the topography is broken into a large number of small mesas and benches. These are admirably adapted to the growing of all kinds of deciduous fruits. The valley of the North Fork of the Gunnison and the smaller valleys of the tributaries make up the larger portion of the fruit district. The mesas are usually small and often broken up by gulches, thus providing excellent soil and air drainage. The development and expansion of the fruit industry is limited only to the development of water for irrigation. The soil varies greatly; the better fruit soils are the red or chocolate loam soil on the north side and the gray and chocolate soils of the south side of the North Fork of the Gunnison river. These types of soil are porous and deep and the orchards are usually in a vigorous condition.

**Transportation.**—The county and the fruit industry are served with two lines of railroad, both of which are branch lines of the Denver and Rio Grande Western. The facilities for shipments are uniformly good. The cost of transportation is not excessive and the growers enjoy the same freight rates as the growers in the Grand Valley. Ample facilities of trackage and ice are obtainable.

**Varieties Of Fruit Grown.**—Practically all standard varieties of commercial fruit are grown. The apple industry, however, is the most highly developed and is subject to fewer losses than fruits like peaches, apricots, and pears. Like every new section started at a relatively early period, too many varieties are grown. The survey shows no less than forty-eight named varieties. The large majority of these varieties are unprofitable and have little commercial value. The leading varieties are the Jonathan, Winesap, Rome Beauty, Gano, Grimes Golden, Delicious, and White Winter Pearmain. It would be to the advantage of the grower if this list of varieties were further contracted. A commercial planting should not consist of more than four varieties and there should be enough of each variety to

make carload shipments possible. An orchard of a large number of varieties is more expensive to operate since these varieties bloom and ripen at different periods, making spraying and harvesting more expensive. The percentage of each variety grown is given in a table of varieties.

**Condition Of the Orchards.**—As one would naturally expect, many of the orchards are in a poor condition. This is especially true where the owner, in addition to raising fruit, is engaged in general farming; also where the growers have neither the training nor the ability to properly care for the orchard. On the other hand, there is a relatively large number of strictly commercial orchards and these have always been profitable. One should not forget that fruit growing is a special type of farming and requires certain training and mental attitude to make it a success. Fruit growing requires a large amount of attention to details, which to the average farmer seems to be unnecessary and tedious. The grower should look upon the tree as an individual and should treat the tree as such. It can be truly said that success or failure in fruit growing is largely dependent upon the type of man the owner is. On the whole the industry has been profitable and the right kind of grower is better off financially than the average farmer.

Delta County has been particularly favored in that it has not experienced the boom that swept over so many of our fruit-growing sections. Land values have never been inflated and consequently there has been less loss from investments in fruit land in Delta County than anywhere else in the State.

**Future Outlook.**—During the past ten years in fruit growing, there has been a steady liquidation in the business. The number of apple trees not only in Colorado but in other states in the union has been greatly decreased so that today there are consequently fewer fruit trees than we had eight or ten years ago. The reduction in the number of fruit trees has not been confined to one single section or a state but has been universal all over the country.

Even with a full production in all the states of the Union there should not be an over supply of fruit, with the possible exception of peaches, and it will take many years of planting before the number of trees will be equal to the number that were grown eight years ago. With these facts before us, the outlook for a fruit grower is exceedingly bright.

There is considerable need for improvements in cultural methods of general orchard practices. Too many orchards are

neglected and the owners are not obtaining the returns that they should. Pruning has not been systematic and most of the orchards have too much wood. There is, on the whole, a noticeable lack of growth vigor among the trees; especially in orchards where the trees are fifteen years old and upward. This condition results in small and poorly colored fruit. The remedy is, first, the application of fertilizers; second, the plowing under of green crops. The use of cover crops should be practiced more extensively and systematically than is done at present. Unless many of the older orchards are renovated, they will not yield much profit to the owners.

**Apples.**—The apple crop is the most important tree fruit grown. All the standard commercial varieties can be grown successfully. The survey shows that not less than 48 varieties are grown in the county. Three-fourths of this number should be classed as non-commercial for this county. As in other highly developed fruit districts, certain varieties do better than others and only such varieties as will attain a high degree of perfection should be grown. The others, if present in all orchards, should either be top-grafted to desirable varieties or be removed. However the total number of undesirable varieties is a relatively small percentage of the total—they are confined to the older and less important orchards.

**Apricots.**—The apricot is in all the fruit districts of the county. The only drawback to a greater development is the danger to the blossoms in spring from frost. On this account failure of crops is frequent. Commercial apricot culture on a large scale should not be undertaken except in a very few favorable localities. Moorpark and Early Golden are the leading varieties grown.

**Cherries.**—Both sour and sweet cherries can be grown. The former are adapted to practically every section of the county. Up to the present time sour cherries have not been grown extensively due to the great distance to market. But with the establishment of a big cannery at Delta the demand for sour cherries is greatly increased and the prospect for the sour-cherry industry is very promising.

Sweet cherries are grown to a considerable extent in the North Fork valley, especially in sheltered localities. On the open or extensive mesas there is considerable loss from winter injury and from late spring frosts. The area suitable to commercial planting is limited to a few favorable locations. The principal varieties of sour cherries grown are the Early Rich-

mond, Montmorency and the Morellos. The standard varieties of sweet and hybrid cherries grown are the Royal Ann, Bing, Lambert, Black Tartarian, May Duke, Royal Duke and Centennial.

There are no large cherry orchards, the planting being usually in small numbers in connection with peaches and apples.

**Peaches.**—Peach growing has always been of considerable commercial importance in Delta County. The crop from this district comes on the market after all other peaches are gone and on this account brings good prices. Formerly peach growing was much more extensive than now. The decline was due mostly to the planting of orchards in unfavorable localities where crop failures were frequent. The suitable areas for peach growing are limited and future planting should be confined to such areas.

The principal variety is Elberta with a few of such early varieties as Early Crawford, Alexander and Carman. The early varieties, as a rule, have not proven profitable. The general conditions of the peach orchards are uniformly good and, as a rule, better than the apple orchards.

**Pears.**—Pears are grown only to a very limited extent in the county. The ravages of pear blight have discouraged growers from planting new orchards and the few remaining pear orchards are not profitable. Were it not for the blight, pear growing would undoubtedly become an important industry in this district.

**Plums.**—Plums are not grown extensively in Delta County. The planting usually consists of a few trees for family use and only a small amount are marketed. All varieties of the European, Japanese and American varieties can be grown. Satsuma is the leading commercial plum. There is a splendid opportunity for the growing of the Satsuma plums since there is a great demand for this plum for canning and preserving.

**Small Fruits and Vegetables.**—Grape growing promises to become an important industry in the county. At the present time there are only small plantings but these have been very profitable. There are wonderful opportunities for development. While at the present time the American grapes are mostly grown, the hardier varieties of the European grapes can be grown successfully with a little winter protection.

Small fruits of all kinds are successfully grown without winter protection and with larger planting to permit of carload shipment the industry is bound to become both extensive and profitable.

Vegetables of all kinds are successfully grown. The large cannery is capable of taking all that is produced.

### DELTA COUNTY

#### Delta Section includes:

California Mesa  
Garnet Mesa  
Gunnison Valley

#### Surface Creek section includes:

Tongue Creek  
Bull Mesa  
Antelope Mesa  
Hart's Basin  
Surface Creek Mesa  
Cory  
Austin  
Arkansas Mesa  
Eckert  
Cedaredge  
Cedar Mesa  
Happy Hollow  
January Mesa  
Ward Creek  
Kaiser Creek

#### Hotchkiss section includes:

Payne Mesa  
Roger's Mesa  
Barrow Mesa  
Powell Mesa  
Sunnyside Mesa  
North Fork Valley  
Hanson Mesa  
Spurling Mesa  
Grandview Mesa  
Hotchkiss

#### Paonia section includes:

Bone Mesa  
Stewart Mesa  
Bell Creek Mesa  
Mt. Lamborn (or German  
Mesa)  
Pitkin Mesa  
Excelsior Mesa  
Minnesota Creek  
North Fork Valley  
Paonia  
Stucker Mesa  
Garvin Mesa  
Bowie

### CLIMATOLOGICAL DATA

The climate of Delta County is on the whole favorable for most of the deciduous tree fruits. The accompanying records of the local U. S. Weather Bureau give an idea of the general climatic conditions and are accurate so far as the local observations are concerned. The data, however, are not accurate for a number of local sites or districts due to the varied topography and as a consequence many localities have a much more favorable climate than the weather report shows and the data should be so interpreted. The survey gives more accurate information as to the range and possibilities for commercial fruit-growing than is possible for a single station. For this reason the climatological data should always be studied in connection with the data of the survey.

## AGRICULTURAL EXPERIMENT STATION

I. Precipitation in the regions drained by the Colorado River, and the Rio Grande, and the San Luis Lakes: Monthly, annual, and average amounts (in inches and hundredths).

										(Means)				
	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Average
Cedaredge	0.93	1.04	1.24	0.96	1.10	0.54	0.87	1.04	1.28	1.18	0.62	0.83	11.63	1891-1917
Delta	... 0.59	0.53	0.70	0.65	0.82	0.30	0.88	0.89	0.93	0.78	0.47	0.58	8.12	1888-1917
Paonia	... 1.30	1.26	1.34	1.28	1.46	0.55	0.99	1.30	1.30	1.36	0.83	1.03	14.00	1892-1917

Cedaredge, Delta County, Colorado—Elevation 6,175 feet.

Delta, Delta County, Colorado—Elevation 4,980 feet.

Paonia, Delta County, Colorado—Elevation 5,694 feet.

II. Average monthly and annual snowfall.

Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Cedaredge	18	7.9	11.0	6.2	1.7	1.2	0.0	0.0	0.6	0.0	0.3	3.0	3.7	35.0
Delta	... 21	4.3	3.4	1.4	0.3	T.	0.9	0.0	0.0	0.0	T.	1.0	5.1	16.5
Paonia	... 18	10.4	10.9	4.8	2.6	0.6	0.5	0.0	0.0	0.1	0.7	4.0	11.6	45.6

III. Average number of days with 0.01 inch or more precipitation.

Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Cedaredge	18	5	5	5	5	6	3	5	6	6	4	3	4	57
Delta	... 21	4	4	4	4	5	3	4	6	4	4	3	4	49
Paonia	... 18	7	7	7	7	6	6	6	7	5	5	4	6	70

IV. Mean temperature.

Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Cedaredge	19	25.9	29.8	38.2	47.4	55.3	64.0	69.6	68.4	60.1	49.2	38.4	25.7	47.6
Delta	... 26	24.4	31.1	41.2	50.6	58.7	67.5	74.1	71.8	69.7	50.0	37.7	25.3	49.6
Paonia	... 16	25.6	31.3	39.9	48.8	56.1	65.6	71.5	69.9	61.4	50.6	39.7	26.5	48.9

V. Mean minimum temperature.

Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Cedaredge	19	13.3	16.8	24.6	32.4	39.1	46.5	53.0	51.7	43.6	34.0	24.7	14.6	32.8
Delta	... 22	10.9	17.4	25.8	33.5	40.6	46.9	54.4	52.1	42.4	30.6	21.9	11.6	32.3
Paonia	... 13	14.0	20.1	27.9	34.7	40.0	47.1	54.4	53.6	46.0	35.3	28.0	16.4	34.8

## ORCHARD SURVEY OF WESTERN COLORADO

9

## VI. Mean maximum temperatures.

Length of Record (Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Cedaredge . . . . . 19	38.7	42.5	52.0	62.7	71.6	81.2	86.3	84.8	76.2	64.1	52.1	39.0	62.6
Delta . . . . . 22	38.4	45.4	57.3	68.7	77.2	88.5	93.8	91.1	82.6	69.2	55.7	38.7	67.2
Paonia . . . . . 13	37.4	42.8	53.4	62.9	70.7	82.4	87.6	85.0	76.7	64.8	53.5	38.2	63.0

## VII. Highest temperatures.

Length of Record (Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Cedaredge 19	60	64	75	83	91	98	101	99	90	82	73	65	101
Delta . . . . . 21	61	68	83	90	100	108	109	109	101	90	85	66	109
Paonia . . . . . 13	58	63	78	84	91	94	99	96	91	83	73	61	99

## VIII. Lowest temperatures.

Length of Record (Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Cedaredge . . . . . 19	-23	-15	-4	9	22	27	35	38	23	8	-3	-8	-23
Delta . . . . . 22	-36	-14	3	10	18	31	36	36	21	11	-1	-24	-36
Paonia . . . . . 13	-28	-21	2	11	22	30	41	41	26	7	-10	-14	-28

## IX. Frost data.

Length of Record (Years)	Last killing frost in spring.	Average date of last killing frost in autumn.	Latest date of first killing frost in spring.	Earliest date of killing frost in autumn.
Cedaredge . . . . . 18		May 16	Sept. 28	Sept. 10
Delta . . . . . 23		May 11	Sept. 27	Sept. 11
Paonia . . . . . 13		May 5	Oct. 13	June 2

**Cedaredge Station**—Located in a village; surroundings mountainous; slope southward thru village from Grand Mesa. Elevation, 10,000 feet, about 10 miles north; gradient steep; conditions at station typical of district, and not specially favorable or unfavorable to frost formation.

**Delta Station**—Located on Garnet Mesa, about 50 feet higher than main portion of town and other bottom lands near river, which is about  $\frac{1}{2}$  mile distant. Conditions less favorable to frost formation than the adjacent bottom lands.

**Paonia Station**—Located on the edge of town and about 50 feet above river, high mountains nearby on three sides, open southeast. Valley narrow above town, but widens out below. This upper valley of the North Fork of the Gunnison, for the most part, is more nearly immune from frost than most places, owing to the strong wind down stream that sets in shortly after sunset and continues till next forenoon. In October, 1915, station moved to a point of same elevation in a small valley several hundred yards beyond the influence of the strong wind common to the valley proper, at night. Present location subject to lower temperatures late in spring and early in fall, and not typical of the valley proper.

**TOTAL ACREAGE OF DELTA COUNTY—6,867****TOTAL NO. ORCHARDS—491****AVERAGE SIZE OF ORCHARDS—13.985 ACRES.****NUMBER OF ORCHARDS IN DELTA COUNTY**

Delta District .....	24 orchards
Surface Creek Dist....	123 orchards
Hotchkiss District ....	193 orchards
Paonia District .....	151 orchards

Total . . . . .	491 orchards
-----------------	--------------

**NUMBER OF APPLE TREES IN EACH ORCHARD DISTRICT**

Delta District .....	17,257
Surface Creek District .....	156,654
Hotchkiss District .....	122,080
Paonia District .....	115,400

Total trees .....	411,391
-------------------	---------

**NUMBER OF APRICOT TREES IN EACH ORCHARD DISTRICT**

Delta District .....	44
Surface Creek District .....	747
Hotchkiss District .....	663
Paonia District .....	963

Total trees .....	2,417
-------------------	-------

**NUMBER OF SOUR CHERRY TREES IN EACH ORCHARD DISTRICT**

Delta District.....	554
Surface Creek District .....	260
Hotchkiss District .....	670
Paonia District .....	1,862

Total trees .....	3,346
-------------------	-------

**NUMBER OF SWEET CHERRY TREES IN EACH ORCHARD DISTRICT**

Delta District .....	24
Surface Creek District .....	300
Hotchkiss District .....	258
Paonia District .....	3,396

Total trees .....	3,978
-------------------	-------

**AVERAGE SIZE OF ORCHARDS IN DELTA COUNTY**

Section.	No. Orchards.	No. Acres.	Average Size
DELTA COUNTY .....	491	6,867.0	13.985 Acres
Delta District .....	24	258.5	10.771 Acres
Surface Creek District .....	123	2,488.0	20.228 Acres
Hotchkiss District .....	193	1,870.25	9.691 Acres
Paonia District .....	151	2,250.25	14.902 Acres

# ORCHARD SURVEY OF WESTERN COLORADO

11

## AVERAGE SIZE OF APPLE ORCHARDS IN DELTA COUNTY

Section.	No. Orchards.	No. Acres.	Average Size
DELTA COUNTY . . . . .	491	5,619.25	11.444 Acres
Delta District . . . . .	24	250.00	10.417 Acres
Surface Creek District . . . . .	123	2,292.75	18.640 Acres
Hotchkiss District . . . . .	193	1,544.50	8.003 Acres
Paonia . . . . .	151	1,532.00	10.146 Acres

## AVERAGE SIZE OF PEACH ORCHARDS IN DELTA COUNTY

Section.	No. Orchards.	No. Acres.	Average Size
DELTA COUNTY . . . . .	491	1,125.25	2.292 Acres
Delta District . . . . .	24	5.50	0.229 Acres
Surface Creek District . . . . .	123	176.25	1.433 Acres
Hotchkiss District . . . . .	193	294.25	1.525 Acres
Paonia District . . . . .	151	649.25	4.299 Acres

## CROPS GROWN IN THE ORCHARDS

### DELTA

Alfalfa	Clean	Sweet	Clover	Corn	Grass	Oats	Rye	Red Clover	Peas
7	7	6		1	2	1	..	..	..
<b>HOTCHKISS</b>									
60	45	33		3	6	2	2	36	5
<b>SURFACE CREEK</b>									
34	45	35		..	5	1	1	2	..
<b>PAONIA</b>									
64	46	16		..	4	2	1	11	8
—	—	—		—	—	—	—	—	—
165	143	90		4	17	6	4	49	13

## APPLES

### NUMBER AND VARIETIES OF APPLE TREES IN DELTA COUNTY

1. Arkansas Black . . . . .	1,203	26. Ralls . . . . .	2,083
2. Baldwin . . . . .	555	27. Rambo . . . . .	58
3. Banana . . . . .	1,600	28. Red Astrachan . . . . .	45
4. Ben Davis . . . . .	30,755	29. Red June . . . . .	1
5. Chenango . . . . .	65	30. Rhode Island . . . . .	12
6. Collins . . . . .	10	31. Rome . . . . .	74,291
7. Delicious . . . . .	9,476	32. Scott Winter . . . . .	100
8. Domine . . . . .	15	33. Smith . . . . .	230
9. Early Harvest . . . . .	186	34. Stayman Winesap . . . . .	2,957
10. Fameuse . . . . .	154	35. Tolman . . . . .	12
11. Gano . . . . .	45,360	36. Utter . . . . .	25
12. Grimes . . . . .	7,417	37. Wagener . . . . .	27
13. Haas . . . . .	50	38. Walbridge . . . . .	60
14. Jonathan . . . . .	184,611	39. Wealthy . . . . .	414
15. King David . . . . .	575	40. White Pearmain . . . . .	3,042
16. Lawver . . . . .	361	42. Whitney (crab) . . . . .	18
17. Maiden Blush . . . . .	172	42. Willow . . . . .	373
18. McIntosh . . . . .	225	43. Winesap . . . . .	38,363
19. Minkler . . . . .	10	44. Wolf River . . . . .	8
20. Missouri . . . . .	2,185	45. Yellow Bellflower . . . . .	323
21. Northern Spy . . . . .	86	46. Yellow Newtown . . . . .	300
22. Northwestern Greening . . . . .	818	47. Yellow Transparent . . . . .	280
23. Oldenburg . . . . .	7	48. York Imperial . . . . .	1,017
24. Oliver . . . . .	198	Total trees . . . . .	411,391
25. Paragon . . . . .	1,258		

**NUMBER AND VARIETIES OF APPLE TREES GROWN IN DELTA COUNTY  
AND THEIR DISTRIBUTION**

Variety.	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Totals
1. Arkansas Black . . . . .	....	310	824	69	1,203
2. Baldwin . . . . .	....	555	....	....	555
3. Banana . . . . .	....	693	862	45	1,600
4. Ben Davis . . . . .	2,751	11,806	10,555	5,643	30,755
5. Champion . . . . .	....	....	....	10	10
6. Chenango . . . . .	25	40	....	....	65
7. Delicious . . . . .	....	3,535	1,640	4,301	9,476
8. Domine . . . . .	....	....	15	....	15
9. Early Harvest . . . . .	....	....	31	155	186
10. Fameuse . . . . .	....	45	....	109	154
11. Gano . . . . .	2,974	22,088	14,846	5,452	45,360
12. Grimes . . . . .	114	4,166	632	2,505	7,417
13. Haas . . . . .	....	....	....	50	50
14. Jonathan . . . . .	6,679	73,581	49,832	54,519	184,611
15. King David . . . . .	....	500	10	65	575
16. Lawver . . . . .	....	158	75	128	361
17. Maiden Blush . . . . .	....	61	11	100	172
18. McIntosh . . . . .	....	225	....	....	225
19. Minkler . . . . .	....	....	....	10	10
20. Missouri . . . . .	264	760	675	486	2,185
21. Northwestern Greening .	206	471	91	50	818
22. Northern Spy . . . . .	....	50	36	....	86
23. Oldenburg . . . . .	....	6	....	1	7
24. Oliver . . . . .	....	198	....	....	198
25. Paragon . . . . .	....	987	198	73	1,258
26. Ralls . . . . .	156	665	375	887	2,083
27. Rambo . . . . .	8	....	....	50	58
28. Red Astrachan . . . . .	....	45	....	....	45
29. Red June . . . . .	....	....	1	....	1
30. Rhode Island . . . . .	....	12	....	....	12
31. Rome . . . . .	2,120	20,375	25,034	26,762	74,291
32. Scott Winter . . . . .	....	100	....	....	100
33. Smith . . . . .	....	106	....	124	230
34. Stayman Winesap . . . . .	....	1,390	862	705	2,957
35. Tolman . . . . .	....	....	....	12	12
36. Utter . . . . .	....	25	....	....	25
37. Wagener . . . . .	8	10	....	9	27
38. Walbridge . . . . .	....	60	....	....	60
39. Wealthy . . . . .	111	183	20	100	414
40. Whitney (crab) . . . . .	18	....	....	....	18
41. White Pearmain . . . . .	892	1,214	936	....	3,042
42. Willow . . . . .	85	50	90	148	373
43. Winesap . . . . .	816	11,474	13,662	12,411	38,363
44. Wolf River . . . . .	....	....	....	8	8
45. Yellow Bellflower . . . . .	10	25	50	238	323
46. Yellow Newton . . . . .	....	300	....	....	300
47. Yellow Transparent . . . . .	....	5	150	125	289
48. York Imperial . . . . .	29	380	567	50	1,017
<b>Totals . . . . .</b>	<b>17,257</b>	<b>156,654</b>	<b>122,080</b>	<b>115,400</b>	<b>411,391</b>

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Summary
No. Acres .....	250	2,292 $\frac{3}{4}$	1,544 $\frac{1}{2}$	1,532	5,619 $\frac{3}{4}$
No. Trees .....	17,257	156,654	122,080	115,400	411,391
Age 1-8 years .....	....	27,350	17,030	6,343	50,723
Age 8-12 years .....	4,403	75,063	51,228	33,059	163,753
Age 12-40 years .....	12,854	54,241	53,822	75,998	196,915
Fair Condition .....	12	91	63	52	218
Good Condition .....	8	80	46	83	217
Poor Condition .....	3	15	11	9	38

**APRICOTS****NUMBER AND VARIETIES OF APRICOT TREES IN DELTA COUNTY**

1. Early Golden .....	45	5. St. Ambroise .....	75
2. Moorpark .....	1,683	Unknown .....	559
3. Red Masculine .....	31		—
4. Royal .....	24	Total .....	2,417

**NUMBER OF VARIETIES OF APRICOT TREES GROWN IN DELTA COUNTY AND THEIR DISTRIBUTION**

Variety.	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Totals
1. Early Golden .....	....	....	45	....	45
2. Moorpark .....	44	519	562	558	1,683
3. Red Masculine .....	....	31	....	....	31
4. Royal .....	....	....	14	10	24
5. St. Ambroise .....	....	....	....	75	75
Unknown .....	....	197	42	320	559
Totals .....	44	747	663	963	2,417

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Summary
No. Acres .....	....	6 $\frac{3}{4}$	5	5 $\frac{3}{4}$	17 $\frac{1}{2}$
No. Trees .....	44	747	663	963	2,417
Age 1-8 years .....	....	150	....	208	358
Age 8-12 years .....	9	211	595	609	1,424
Age 12-40 years .....	35	386	68	146	635
Fair Condition .....	1	12	6	8	27
Good Condition .....	1	9	2	4	16
Poor Condition .....	1	2	1	2	6

**SOUR CHERRIES****NUMBER AND VARIETIES OF SOUR CHERRY TREES IN DELTA COUNTY**

1. Dyehouse .....	225	5. Sixteen-to-One .....	1,556
2. Early Richmond .....	684	6. Wragg .....	15
3. English Morello .....	155		—
4. Montmorency .....	711	Total .....	3,346

## AGRICULTURAL EXPERIMENT STATION

**NUMBER AND VARIETIES OF SOUR CHERRY TREES GROWN IN DELTA COUNTY AND THEIR DISTRIBUTION**

Variety.	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Totals
1. Dyehouse . . . . .	225	...	...	...	225
2. Early Richmond . . . . .	115	153	209	207	684
3. English Morello . . . . .	59	40	15	50	155
4. Montomrency . . . . .	164	61	431	55	711
5. Sixteen-to-One . . . . .	...	6	...	1,550	1,556
6. Wragg . . . . .	...	...	15	...	15
<b>Totals . . . . .</b>	<b>554</b>	<b>260</b>	<b>670</b>	<b>1,862</b>	<b>3,346</b>

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Summary
No. Acres . . . . .	2	1	4½	14¾	22¼
No. Trees . . . . .	554	260	670	1,862	3,346
Age 1-8 years . . . . .	365	5	...	129	499
Age 8-12 years . . . . .	84	210	440	1,709	2,443
Age 12-40 years . . . . .	105	45	230	24	404
Fair Condition . . . . .	6	11	15	7	39
Good Condition . . . . .	1	4	1	8	14
Poor Condition . . . . .	...	...	...	...	...

**SWEET CHERRIES****NUMBER AND VARIETIES OF SWEET CHERRY TREES IN DELTA COUNTY**

1. Bing . . . . .	1,128	6. Republican . . . . .	299
2. Black Tartarian . . . . .	608	7. Royal Duke . . . . .	15
3. Lambert . . . . .	329	8. Windsor . . . . .	110
4. May Duke . . . . .	57		
5. Napoleon . . . . .	1,434	Total . . . . .	3,978

**NUMBER AND VARIETIES OF SWEET CHERRY TREES GROWN IN DELTA COUNTY AND THEIR DISTRIBUTION**

Variety.	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Totals
1. Bing . . . . .	24	101	132	881	1,128
2. Black Tartarian . . . . .	...	46	...	560	606
3. Lambert . . . . .	...	47	...	282	329
4. May Duke . . . . .	...	2	30	25	57
5. Napoleon . . . . .	...	73	98	1,263	1,434
6. Republican . . . . .	...	21	3	275	299
7. Royal Duke . . . . .	...	...	5	10	15
8. Windsor . . . . .	...	10	...	100	110
<b>Totals . . . . .</b>	<b>24</b>	<b>300</b>	<b>258</b>	<b>3,396</b>	<b>3,978</b>

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Summary
No. Acres . . . . .	...	2¼	1½	29	32¾
No. Trees . . . . .	24	300	258	3,396	3,978
Age 1-8 years . . . . .	...	15	...	956	971
Age 8-12 years . . . . .	12	258	214	2,265	2,776
Age 12-40 years . . . . .	12	...	44	175	231
Fair Condition . . . . .	1	9	10	12	32
Good Condition . . . . .	1	3	3	16	23
Poor Condition . . . . .	1	...	...	...	1

## PEACHES

### NUMBER AND VARIETIES OF PEACH TREES IN DELTA COUNTY

1. Alexander . . . . .	915	6. Triumph . . . . .	20
2. Carman . . . . .	520	7. White Cling . . . . .	15
3. Early Crawford . . . . .	1,355	Unknown . . . . .	15
4. Elberta . . . . .	116,265		
5. Mountain Rose . . . . .	145	Total . . . . .	119,242

### NUMBER AND VARIETIES OF PEACH TREES GROWN IN DELTA COUNTY AND THEIR DISTRIBUTION

Variety.	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Totals
1. Alexander . . . . .	915	....	....	....	915
2. Carman . . . . .	520	....	....	520	520
3. Early Crawford . . . . .	119	222	319	695	1,355
4. Elberta . . . . .	400	15,099	23,358	67,408	116,265
5. Mountain Rose . . . . .	....	....	125	20	145
6. Triumph . . . . .	....	....	10	10	20
7. White Cling . . . . .	6	1	....	....	7
Unknown . . . . .	....	15	....	....	15
Totals . . . . .	525	16,252	33,812	68,653	119,242

### DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION

	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Summary
No. Acres . . . . .	5 1/2	176 1/4	294 1/4	649 1/4	1125 1/4
No. Trees . . . . .	525	16,252	33,812	68,653	119,242
Age 1-8 years . . . . .	....	1,009	1,535	3,325	5,869
Age 8-12 years . . . . .	25	10,706	20,460	26,088	57,279
Age 12-40 years . . . . .	500	4,537	11,817	39,240	56,094
Fair Condition . . . . .	....	42	39	47	128
Good Condition . . . . .	2	19	24	50	95
Poor Condition . . . . .	....	6	6	14	26

## PEARS

### NUMBER AND VARIETIES OF PEAR TREES IN DELTA COUNTY

1. Anjou . . . . .	377	6. Seckel . . . . .	2
2. Bartlett . . . . .	1,699	7. Winter Nelis . . . . .	12
3. Comice . . . . .	50	Unknown . . . . .	50
4. Flemish . . . . .	33		
5. Kieffer . . . . .	450	Total . . . . .	2,673

### NUMBER AND VARIETIES OF PEAR TREES GROWN IN DELTA COUNTY AND THEIR DISTRIBUTION

Variety.	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Totals
1. Anjou . . . . .	10	62	35	270	377
2. Bartlett . . . . .	10	399	132	1,158	1,699
3. Comice . . . . .	....	....	50	....	50
4. Flemish . . . . .	10	18	....	5	33
5. Kieffer . . . . .	55	205	40	150	450
6. Seckel . . . . .	....	....	2	....	2
7. Winter Nelis . . . . .	....	....	12	....	12
Unknown . . . . .	....	....	50	....	50
Totals . . . . .	85	684	321	1,583	2,673

## AGRICULTURAL EXPERIMENT STATION

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Summary
No. Acres .....	1	7½	9	17¼	34¾
No. Trees .....	85	684	321	1,583	2,763
Age 1-8 years .....	....	50	100	303	453
Age 8-12 years .....	....	532	....	370	902
Age 12-40 years .....	85	102	221	910	1,318
Fair Condition .....	3	5	5	4	17
Good Condition .....	....	4	1	10	15
Poor Condition .....	....	2	1	1	4

**PLUMS****NUMBER AND VARIETIES OF PLUM TREES IN DELTA COUNTY**

1. Agen . . . . .	965	8. Reine Claude . . . . .	149
2. Damson . . . . .	165	9. Satsuma . . . . .	141
3. De Soto . . . . .	3	10. Sugar . . . . .	12
4. Italian Prune . . . . .	900	11. Washington . . . . .	20
5. Peach . . . . .	87	12. Wild Goose . . . . .	55
6. Pond . . . . .	3	13. Yellow Egg . . . . .	21
7. Red Apricot . . . . .	3		
		Total . . . . .	2,524

**NUMBER AND VARIETIES OF PLUM TREES GROWN IN DELTA COUNTY AND THEIR DISTRIBUTION**

Variety.	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Totals
1. Agen . . . . .	....	5	960	....	965
2. Damson . . . . .	....	26	136	3	165
3. De Soto . . . . .	....	....	3	....	3
4. Italian Prune . . . . .	....	50	250	600	900
5. Peach . . . . .	....	10	77	....	87
6. Pond . . . . .	....	....	3	....	3
7. Red Apricot . . . . .	....	....	3	....	3
8. Reine Claude . . . . .	....	49	50	50	149
9. Satsuma . . . . .	....	56	12	73	141
10. Sugar . . . . .	....	....	12	....	12
11. Washington . . . . .	....	....	20	....	20
12. Wild Goose . . . . .	....	5	15	35	55
13. Yellow Egg . . . . .	....	....	6	15	21
Totals . . . . .	....	201	1,547	776	2,524

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Delta.	Surface Creek.	Hotchkiss.	Paonia.	Summary
No. Acres .....	....	1½	11½	2¼	15¼
No. Trees .....	....	201	1,547	776	2,524
Age 1-8 years .....	....	6	....	300	306
Age 8-12 years .....	....	78	830	381	1,289
Age 12-40 years .....	....	117	717	95	929
Fair Condition .....	....	4	10	3	17
Good Condition .....	....	1	2	3	6
Poor Condition .....	....	2	1	....	3

## ORCHARD SURVEY OF WESTERN COLORADO

17

**TABLE I—NUMBER OF FRUIT TREES IN EACH DISTRICT**

District	Apples	Apricots	Cherries	Peaches	Pears	Plums	Dist. Tot.
Delta . . . . .	17,257	44	578	525	85	...	18,489
Surface Creek . . . . .	156,654	747	560	16,252	684	201	175,093
Hotchkiss . . . . .	122,080	663	928	33,812	321	1,547	159,351
Paonia . . . . .	115,400	963	5,258	68,653	1,583	776	192,633
Totals . . . . .	411,391	2,417	7,324	119,242	2,673	2,524	545,571

**TABLE I-a—DISTRIBUTION (IN PERCENTAGES) OF TOTAL NUMBER OF TREES OF EACH FRUIT IN ENTIRE COUNTY BY DISTRICTS**

District	Apples	Apricots	Cherries	Peaches	Pears	Plums	Entire Co. Tot.
Delta . . . . .	4.1	2.0	7.9	0.4	2.5	0.0	3.3
Surface Creek . . . . .	37.7	31.8	7.6	13.6	20.1	10.6	31.8
Hotchkiss . . . . .	30.3	30.1	12.6	28.0	26.4	81.2	29.7
Paonia . . . . .	27.9	36.1	71.9	58.0	51.0	8.2	35.2
Entire Co. . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**TABLE II—NUMBER OF ACRES OF EACH FRUIT FOR EACH DISTRICT IN ENTIRE COUNTY**

	Delta	Surface Creek	Hotchkiss	Paonia
Apples . . . . .	250.00	2,292.75	1,544.50	1,532.00
Apricots . . . . .	.....	6.75	5.00	5.75
Pears . . . . .	1.00	7.50	9.00	17.25
Peaches . . . . .	5.50	176.25	294.25	649.25
Plums . . . . .	.....	1.50	11.50	2.25
Sour Cherries . . . . .	2.00	1.00	4.50	14.75
Sweet Cherries . . . . .	.....	2.25	1.50	29.00
Totals, All Fruits . . . . .	258.50	2,488.00	1,870.25	2,250.25

**TABLE II-a—NUMBER OF ACRES OF EACH FRUIT OF BEARING AGE FOR EACH DISTRICT**

	Delta	Surface Creek	Hotchkiss	Paonia
Apples . . . . .	250.00	1,747.35	1,471.13	1,479.94
Apricots . . . . .	.....	5.39	5.00	5.75
Pears . . . . .	1.00	6.95	5.17	14.39
Peaches . . . . .	5.50	152.66	281.02	621.09
Plums . . . . .	.....	1.45	11.50	2.25
Sour Cherries . . . . .	0.69	0.98	4.50	14.56
Sweet Cherries . . . . .	.....	1.90	1.50	20.91
Totals, All Fruits . . . . .	257.19	1,916.68	1,779.82	2,158.89

**TABLE III—SIX PRINCIPAL VARIETIES OF APPLES, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co
Jonathan . . . . .	38.9	45.7	40.7	47.2	44.4
Rome . . . . .	12.2	12.9	20.4	23.1	17.8
Gano . . . . .	17.0	14.0	10.8	4.5	10.4
Winesap . . . . .	4.7	7.2	11.1	10.7	9.2
Ben Davis . . . . .	15.6	7.3	8.6	4.8	7.3
Delicious . . . . .	....	2.2	1.3	3.7	2.2
All others (42 var.) . . .	11.6	10.7	7.1	6.0	8.7
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE IV—THREE PRINCIPAL VARIETIES OF PEARS, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
Bartlett . . . . .	11.7	58.8	40.6	70.9	62.9
Kieffer . . . . .	64.7	29.4	12.5	9.3	16.6
Anjou . . . . .	11.7	8.8	10.9	16.6	13.7
All others (4 var.) . . . . .	11.9	3.0	36.0	3.2	6.8
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE V—SIX PRINCIPAL VARIETIES OF PEACHES SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
Elberta . . . . .	76.9	92.8	98.6	92.2	97.5
Early Crawford . . . . .	22.0	1.3	0.9	1.0	1.1
Alexander . . . . .	5.6	... .	... .	... .	0.7
Carman . . . . .	... .	... .	... .	0.7	0.4
Mountain Rose . . . . .	... .	... .	0.3	... .	0.1
Triumph . . . . .	... .	... .	... .	... .	... .
All others . . . . .	1.1	0.3	0.2	0.1	0.2
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE VI—SIX PRINCIPAL VARIETIES OF PLUMS AND PRUNES, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
Agen . . . . .	... .	2.5	61.9	... .	37.8
Italian Prune . . . . .	... .	25.0	16.1	76.9	35.4
Damson . . . . .	... .	12.5	7.1	0.4	5.9
Satsuma . . . . .	... .	25.0	0.7	8.9	5.5
Reine Clauðe . . . . .	... .	12.5	3.2	6.4	4.9
P'each . . . . .	... .	5.0	5.7	... .	3.9
All others (7 var.) . . . . .	... .	17.5	5.3	7.4	6.6
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE VII—FOUR PRINCIPAL VARIETIES OF APRICOTS, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
Moorpark . . . . .	100.0	69.3	84.8	58.3	70.0
St. Ambroise . . . . .	... .	26.6	6.1	5.2	12.1
Early Golden . . . . .	... .	... .	... .	19.8	7.9
Red Masculine . . . . .	... .	... .	... .	8.3	3.1
All others (2 var.) . . . . .	... .	4.1	9.1	8.4	6.9
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE VIII—SIX PRINCIPAL VARIETIES OF CHERRIES, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
Sixteen-to-One . . . . .	... .	1.1	... .	29.2	21.2
Napoleon . . . . .	... .	8.9	1.0	21.3	17.5
Bing . . . . .	4.3	17.8	1.2	16.6	15.5
Montmorency . . . . .	27.6	10.9	40.0	1.1	9.6
Early Richmond . . . . .	20.7	26.8	20.0	3.8	9.3
Black Tartarian . . . . .	... .	8.0	... .	10.6	8.2
All others (8 var.) . . . . .	47.4	26.5	37.8	17.4	18.9
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE IX—NUMBER OF APPLE TREES OF EACH DISTRICT AND OF ENTIRE COUNTY BY AGE CLASS**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years . . . . .	....	27,350	17,030	6,343	50,723
8-12 years . . . . .	4,403	74,063	51,228	33,059	163,753
12-40 years . . . . .	12,854	54,241	53,822	75,998	196,915
Totals . . . . .	17,257	156,654	122,080	115,400	411,391

**TABLE IX-a—PERCENTAGE OF APPLE TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co
1-8 years . . . . .	....	53.7	33.6	12.7	100.0
8-12 years . . . . .	2.6	44.7	32.8	19.9	100.0
12-40 years . . . . .	6.4	27.4	27.2	39.0	100.0

**TABLE IX-b—PERCENTAGE OF APPLE TREES OF EACH DISTRICT WITH RESPECT TO AGE**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years . . . . .	....	17.3	13.5	5.4	12.1
8-12 years . . . . .	25.4	47.9	43.7	28.5	40.3
12-40 years . . . . .	74.6	34.8	42.8	66.1	47.6
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE X—NUMBER OF PEAR TREES OF EACH DISTRICT AND OF ENTIRE COUNTY BY AGE CLASS**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years . . . . .	....	50	100	305	453
8-12 years . . . . .	....	532	....	370	902
12-40 years . . . . .	85	102	221	910	1,318
Totals . . . . .	85	684	321	1,583	2,673

**TABLE X-a—PERCENTAGE OF PEAR TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years . . . . .	....	6.8	52.1	41.1	100.0
8-12 years . . . . .	....	58.8	....	41.2	100.0
12-40 years . . . . .	4.4	5.5	27.7	62.4	100.0

**TABLE X-b—PERCENTAGE OF PEAR TREES OF EACH DISTRICT WITH RESPECT TO AGE**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years . . . . .	....	7.4	42.7	16.6	20.6
8-12 years . . . . .	....	77.9	....	20.6	26.5
12-40 years . . . . .	100.0	14.7	57.3	62.8	52.9
Totals . . . . .	100.0	100.0	100.0	100.0	100.0

**TABLE XI—NUMBER OF PEACH TREES OF EACH DISTRICT AND OF ENTIRE COUNTY BY AGE CLASS**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years . . . . .	....	1,009	1,535	3,325	5,869
8-12 years . . . . .	25	10,706	20,460	26,088	57,279
12-40 years . . . . .	500	4,537	11,817	39,240	56,094
Totals . . . . .	525	16,252	33,812	68,653	119,242

## AGRICULTURAL EXPERIMENT STATION

**TABLE XI-a—PERCENTAGE OF PEACH TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years .....	....	17.2	25.8	57.0	100.0
8-12 years .....	....	17.3	35.3	47.4	100.0
12-40 years .....	0.9	8.0	20.4	70.7	100.0

**TABLE XI-b—PERCENTAGE OF PEACH TREES OF EACH DISTRICT WITH RESPECT TO AGE**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years .....	....	6.1	4.5	4.8	4.8
8-12 years .....	4.7	65.6	61.1	38.4	48.3
12-40 years .....	95.3	28.3	34.4	56.8	46.9
Totals . .....	100.0	100.0	100.0	100.0	100.0

**TABLE XII—PERCENTAGE OF APRICOT TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years .....	....	100.0	....	....	100.0
8-12 years .....	0.6	14.2	42.8	42.4	100.0
12-40 years .....	6.2	60.9	10.9	22.0	100.0

**TABLE XIII—PERCENTAGE OF PLUM TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years .....	....	100.0	....	....	100.0
8-12 years .....	....	7.6	79.1	13.3	100.0
12-40 years .....	....	12.9	77.4	9.7	100.0

**TABLE XIV—PERCENTAGE OF SOUR CHERRY TREES OF EACH AGE CLASS IN EACH DISTRICT**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years .....	74.0	1.0	....	25.0	100.0
8-12 years .....	3.2	8.4	17.6	70.8	100.0
12-40 years .....	25.0	12.5	57.5	5.0	100.0

**TABLE XV—PERCENTAGE OF SWEET CHERRY TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Delta	Surface Creek	Hotchkiss	Paonia	Entire Co.
1-8 years .....	....	1.5	....	98.5	100.0
8-12 years .....	0.4	10.6	8.0	81.0	100.0
12-40 years .....	5.2	....	17.4	77.4	100.0

**GRAND TOTALS—DELTA COUNTY**

Number of acres in fruit trees	6,867	CONDITION OF ORCHARDS
Number of fruit trees of all kinds .....	545,571	Fair . ....
Number of orchards .....	491	Good . ....
		Poor . ....

**DISTRIBUTION OF TREES BY AGE CLASS**

Age 1-8 years .....	59,179	Total . ....	491
Age 8-12 years .....	229,866		
Age 12-40 years .....	256,526		

**SURVEY  
OF  
MONTROSE COUNTY**

The eastern part of Montrose County is traversed by the Uncompaghre River which furnishes water for irrigation. The river valley is devoted to general farm crops, with few commercial orchards. The orchard districts are situated on the adjacent mesas considerably elevated above the valley proper. These mesas have, as a rule, good soil and air drainage, and the soil is well adapted to tree fruits, particularly apples. The mesas are more extensive and consequently more exposed than those of Delta County. The elevation is, in many cases, too high and the winter too severe for many varieties of orchard fruits.

The principal fruit crop is apples, followed by peaches, plums and sour cherries. The facilities for irrigation are the very best and an abundance of water is always available. The transportation facilities are also good, being served with a broad gauge railroad which connects with the main line of the Denver and Rio Grande Western at Grand Junction.

The climatic conditions are more severe than in Delta and Mesa counties. This is due to the greater elevation and to the great expanse of level mesa land.

The important industry will always be general farming. Only in a few favorable localities will commercial fruit-growing be profitable. There are a number of fine commercial orchards of considerable size which compare favorably with any in the State, both in the way of production and in up-to-date management. There are also a large number of neglected orchards which indicate both careless management and poor production.

The extensive mesa lands and the high elevation make destructive spring frosts frequent, though the favorably located orchards are relatively free from destructive spring frosts.

There is a considerable number of plum trees in the county and one orchard in particular is growing a considerable quantity of prunes which have been dried on the place. It is doubtful whether the prune industry will be profitable as a commercial industry in competition with more favorably located districts. The plum trees are usually short lived and, in addition, subject to winter injury.

Peaches are grown to some extent but the crop is too uncertain, due to winter injury to the trees and late spring frosts.

Sour cherries can be grown successfully and more extensive planting should be encouraged. Sweet and hybrid cherries can be grown only in very favorable localities and extensive plantings should not be undertaken.

It would be wrong to say that the fruit growing has reached its highest point in the county, and that the industry is on the decline. The decline is the result of the natural readjustment after a rapid development, during which lands unsuited to fruit trees were planted. A better knowledge of local conditions will undoubtedly reveal considerable acreage better adapted to fruit trees, than many of the existing orchards.

### **MONTROSE COUNTY**

#### **Spring Creek Mesa**

##### **Uncompahgre Valley district includes:**

- Uncompahgre Valley at Montrose
- Uncompahgre Valley at Uncompahgre

##### **Olathe District includes:**

- North Mesa
- Ash Mesa
- California Mesa

### **CLIMATOLOGICAL DATA**

The accompanying tables give an accurate idea of the relation of climate to fruit growing in Montrose County. The city of Montrose has a representative climate of the fruit-growing area and, with few exceptions such as especially favorable exposure and air drainage, should furnish a reliable guide to prospective settlers.

## ORCHARD SURVEY OF WESTERN COLORADO

23

I.	Precipitation in the regions drained by the Colorado River, the Rio Grande and the San Luis Lakes:	Monthly, annual, and average amounts (in inches and hundredths.)							
Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.
Montrose .077	.066	.080	1.02	0.83	0.41	0.85	1.34	0.98	0.96
Montrose, Montrose County, Colorado—Elevation, 5,811 feet.									
II.	Average monthly and annual snowfall.								
Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Montrose ..27	7.3	6.1	5.3	1.7	0.4	0.0	0.0	0.0	0.0
III.	Average number of days with 0.01 inch or more precipitation.								
Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Montrose ..27	6	5	6	6	5	3	6	8	8
IV.	Mean temperatures.								
Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Montrose ..24	24.3	31.3	39.8	47.9	55.2	64.6	70.2	67.9	60.6
V.	Mean minimum temperatures.								
Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Montrose ..24	21.1	19.4	27.4	34.0	40.8	48.1	54.3	52.3	44.7
VI.	Mean maximum temperatures.								
Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Montrose ..24	36.5	43.5	53.3	62.2	70.5	81.2	86.4	83.9	76.6
VII.	Highest temperatures.								
Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Montrose ..24	62	70	83	84	92	106	98	100	91
VIII.	Lowest temperatures.								
Length of Record	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.
Montrose ..24	-25	-27	-5	11	17	28	40	37	21
IX.	Frost data.	Length of record (Years)	Average date of last killing frost in spring.	Average date of first killing frost in autumn.	Average date of first killing frost in spring.	Average date of first killing frost in autumn.	Latest date of killing frost in spring.	Earliest date of killing frost in autumn.	
Montrose .. ..	.....	.....	May 7	Sept. 30	June 8	Sept. 14	June 8	Sept. 14	
									Station in a small city in a broad valley practically surrounded by mesas and hills. Conditions typical of valley proper, and more favorable to frost than the adjacent mesas.

<b>NUMBER OF ORCHARDS IN MONTROSE COUNTY</b>		<b>NUMBER OF PEACH TREES IN EACH ORCHARD DISTRICT</b>	
Spring Creek Mesa .....	33	Spring Creek Mesa .....	1,125
Uncompahgre Valley .....	31	Uncompahgre Valley .....	726
Olathe .....	17	Olathe .....	1,411
Total .....	81	Total trees .....	3,362
<b>NUMBER OF APPLE TREES IN EACH ORCHARD DISTRICT</b>		<b>NUMBER OF PEAR TREES IN EACH ORCHARD DISTRICT</b>	
Spring Creek Mesa .....	33,716	Spring Creek Mesa .....	..
Uncompahgre Valley .....	18,421	Uncompahgre Valley .....	52
Olathe .....	9,176	Olathe .....	265
Total trees .....	61,313	Total trees .....	317
<b>NUMBER OF APRICOT TREES IN EACH ORCHARD DISTRICT</b>		<b>NUMBER OF PLUM TREES IN EACH ORCHARD DISTRICT</b>	
Spring Creek Mesa .....	300	Spring Creek Mesa .....	900
Uncompahgre Valley .....	222	Uncompahgre Valley .....	39
Olathe .....	233	Olathe .....	5
Total trees .....	755	Total trees .....	944
<b>NUMBER OF SOUR CHERRY TREES IN EACH ORCHARD DISTRICT</b>		<b>SUMMARY</b>	
Spring Creek Mesa .....	575	No. of apples trees in Montrose county .....	61,313
Uncompahgre Valley .....	215	No. of apricot trees in Montrose county .....	755
Olathe .....	77	No. of sour cherry trees in Montrose county .....	867
Total trees .....	867	No. of sweet cherry trees in Montrose county .....	157
<b>NUMBER OF SWEET CHERRY TREES IN EACH ORCHARD DISTRICT</b>		No. of peach trees in Montrose county .....	3,262
Spring Creek Mesa .....	108	No. of pear trees in Montrose county .....	317
Uncompahgre Valley .....	24	No. of plum trees in Montrose county .....	944
Olathe .....	25	Grand total .....	67,615
Total trees .....	157		
<b>AVERAGE SIZE OF ORCHARDS—MONTROSE COUNTY</b>			
Section	No. Orchards	No. Acres	Average Size
MONTROSE COUNTY .....	81	984.0	12.148
Spring Creek Mesa .....	33	532.5	16.136
Uncompahgre Valley .....	31	263.5	8.500
Olathe .....	17	188.0	11.058
<b>AVERAGE SIZE OF APPLE ORCHARDS—MONTROSE COUNTY</b>			
Section	No. Orchards	No. Acres	Average Size
MONTROSE COUNTY .....	80	929.5	11.618
Spring Creek Mesa .....	32	499.0	15.593
Uncompahgre Valley .....	31	252.5	8.145
Olathe .....	17	178.0	10.479
<b>AVERAGE SIZE OF PEACH ORCHARDS—MONTROSE COUNTY</b>			
Section	No. Orchards	No. Acres	Average Size
MONTROSE COUNTY .....	18	29.0	1.611
Spring Creek Mesa .....	6	13.5	2.250
Uncompahgre Valley .....	5	7.5	1.500
Olathe .....	7	8.0	1.143

## CROPS GROWN IN THE ORCHARDS

SPRING CREEK MESA								
Clean	Alfalfa	Potatoes	Sweet Clover	Grass	Red Clover	Wheat	Barley	
10	2	2	5	1	3	1	9	
UNCOMPAHGRE VALLEY								
8	14	..	3	1	2	2	1	
OLATHE								
8	7	..	..	..	1	1	..	
—	—	—	—	—	—	—	—	
26	22	2	8	2	6	4	10	

## APPLES

## NUMBER AND VARIETIES OF APPLE TREES IN MONTROSE COUNTY

1. American . . . . .	6	27. Rambo . . . . .	50
2. Arkansas Black . . . . .	414	28. Red Astrachan . . . . .	180
3. Baldwin . . . . .	100	29. Red June . . . . .	17
4. Ben Davis . . . . .	10,116	30. Rhode Island . . . . .	60
5. Chenango . . . . .	40	31. Rome . . . . .	2,142
6. Delicious . . . . .	1,128	32. Scott Winter . . . . .	20
7. Early Harvest . . . . .	428	33. Sheepnose . . . . .	62
8. Fameuse . . . . .	54	34. Smith . . . . .	25
9. Gano . . . . .	4,174	35. Stark . . . . .	300
10. Grimes . . . . .	255	36. Stayman Winesap . . . . .	384
11. Iowa Blush . . . . .	15	37. Tolman . . . . .	5
12. Jonathan . . . . .	21,956	38. Utter . . . . .	305
13. King David . . . . .	450	39. Wagener . . . . .	275
14. Lawver . . . . .	40	40. Walbridge . . . . .	585
15. Maiden Blush . . . . .	40	41. Wealthy . . . . .	283
16. Mann . . . . .	45	42. Westfield . . . . .	6
17. McIntosh . . . . .	145	43. White Pearmain . . . . .	416
18. McMahon . . . . .	15	44. Willow . . . . .	47
19. Minkler . . . . .	39	45. Winesap . . . . .	8,810
20. Missouri . . . . .	253	46. Wolf River . . . . .	43
21. Northern Spy . . . . .	405	47. Yellow Bellflower . . . . .	115
22. Northwestern Greening . . . . .	200	48. Yellow Newtown . . . . .	12
23. Oldenburg . . . . .	112	49. Yellow Transparent . . . . .	987
24. Oliver . . . . .	100	50. York Imperial . . . . .	1,895
25. Paragon . . . . .	1,410	Unknown . . . . .	65
26. Ralls . . . . .	2,290	Total . . . . .	61,313

## AGRICULTURAL EXPERIMENT STATION

## NUMBER AND VARIETIES OF APPLE TREES GROWN IN MONTROSE COUNTY AND THEIR DISTRIBUTION

Variety.	Spring Creek Mesa.	Uncompahgre Valley.	Olathe.	Totals
1. American . . . . .	....	6	...	6
2. Arkansas Black . . . . .	....	164	250	414
3. Baldwin . . . . .	50	50	....	100
4. Ben Davis . . . . .	6,081	2,560	1,475	10,116
5. Chenango . . . . .	....	40	....	40
6. Delicious . . . . .	595	8	525	1,128
7. Early Harvest . . . . .	10	389	29	428
8. Fameuse . . . . .	10	24	20	54
9. Gano . . . . .	2,430	1,225	519	4,174
10. Grimes . . . . .	80	100	75	255
11. Iowa Blush . . . . .	....	....	15	15
12. Jonathan . . . . .	11,815	7,668	2,473	21,956
13. King David . . . . .	100	350	....	450
14. Lawver . . . . .	....	40	....	40
15. Maiden Blush . . . . .	30	10	....	40
16. Mann . . . . .	25	20	....	45
17. McIntosh . . . . .	80	65	....	145
18. McMahon . . . . .	....	5	10	15
19. Minkler . . . . .	....	30	....	30
20. Missouri . . . . .	200	53	....	253
21. Northern Spy . . . . .	345	60	....	405
22. Northwestern Greening . . . . .	200	....	....	200
23. Oldenburg . . . . .	....	96	16	112
24. Oliver . . . . .	100	....	....	100
25. Paragon . . . . .	1,000	410	....	1,410
26. Ralls . . . . .	435	1,255	600	2,290
27. Rambo . . . . .	10	40	....	50
28. Red Astrachan . . . . .	....	174	6	180
29. Red June . . . . .	....	17	....	17
30. Rhode Island . . . . .	....	60	....	60
31. Rome . . . . .	190	975	977	2,142
32. Scott Winter . . . . .	....	20	....	20
33. Sheepnose . . . . .	....	2	60	62
34. Smith . . . . .	....	25	....	25
35. Stark . . . . .	300	....	....	300
36. Stayman Winesap . . . . .	300	4	80	384
37. Tolman . . . . .	....	5	....	5
38. Utter . . . . .	....	5	300	305
39. Wagener . . . . .	95	130	50	275
40. Walbridge . . . . .	10	75	500	585
41. Wealthy . . . . .	105	70	105	283
42. Westfield . . . . .	....	6	....	6
43. White Pearmain . . . . .	170	240	6	416
44. Willow . . . . .	45	2	....	47
45. Winesap . . . . .	6,505	1,537	768	8,810
46. Wolf River . . . . .	....	36	10	46
47. Yellow Bellflower . . . . .	100	15	....	115
48. Yellow Newtown . . . . .	....	12	....	12
49. Yellow Transparent . . . . .	720	188	79	987
50. York Imperial . . . . .	1,580	90	225	1,895
Unknown . . . . .	....	65	....	65
Totals . . . . .	33,716	18,421	9,176	61,313

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Spring Creek Mesa.	Uncompahgre Valley.	Olathe.	Summary
No. Acres . . . . .	499	252½	176	927½
No. Trees . . . . .	33,716	18,421	9,176	61,313
Age 1-8 years . . . . .	1,410	930	1,106	3,446
Age 8-12 years . . . . .	4,985	3,251	2,980	11,316
Age 12-40 years . . . . .	27,321	14,140	5,090	46,551
Fair Condition . . . . .	13	27	10	50
Good Condition . . . . .	18	4	5	27
Poor Condition . . . . .	1	...	2	3

**APRICOTS****NUMBER AND VARIETIES OF APRICOT TREES IN MONTROSE COUNTY**

1. Moorpark . . . . .	587	Unknown . . . . .	2
2. Peach . . . . .	154		
3. Royal . . . . .	12	Total . . . . .	755

**NUMBER AND VARIETIES OF APRICOT TREES GROWN IN MONTROSE COUNTY AND THEIR DISTRIBUTION**

Variety.	Spring Creek Mesa.	Uncompahgre Valley.	Olathe.	Totals
1. Moorpark . . . . .	300	116	171	587
2. Peach . . . . .	104	50	50	154
3. Royal . . . . .	...	12	12	12
Unknown . . . . .	2	...	...	2
<b>Totals . . . . .</b>	<b>300</b>	<b>222</b>	<b>233</b>	<b>755</b>

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Spring Creek Mesa.	Uncompahgre Valley.	Olathe.	Summary
No. Acres . . . . .	3	2	2	7
No. Trees . . . . .	300	222	233	755
Age 1-8 years . . . . .	...	4	...	4
Age 8-12 years . . . . .	300	5	16	321
Age 12-40 years . . . . .	...	213	217	430
Fair Condition . . . . .	...	5	4	9
Good Condition . . . . .	1	...	...	1
Poor Condition . . . . .	...	...	...	...

**SOUR CHERRIES****NUMBER AND VARIETIES OF SOUR CHERRY TREES IN MONTROSE COUNTY**

1. Early Richmond . . . . .	763	4. Wragg . . . . .	3
2. English Morello . . . . .	6		
3. Montmorency . . . . .	95	Total . . . . .	867

**NUMBER AND VARIETIES OF SOUR CHERRY TREES GROWN IN MONTROSE COUNTY AND THEIR DISTRIBUTION**

Variety.	Spring Creek Mesa.	Uncompahgre Valley.	Olathe.	Totals
1. Early Richmond . . . . .	550	136	77	763
2. English Morello . . . . .	...	6	...	6
3. Montmorency . . . . .	25	70	...	95
4. Wragg . . . . .	...	3	...	3
<b>Totals . . . . .</b>	<b>675</b>	<b>215</b>	<b>77</b>	<b>867</b>

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Spring Creek	Uncompahgre	Olathe.	Summary
	Mesa.	Valley.		
No. Acres . . . . .	6	1½	...	7½
No. Trees . . . . .	575	215	77	867
Age 1-8 years . . . . .	...	14	12	26
Age 8-12 years . . . . .	75	...	8	83
Age 12-40 years . . . . .	500	201	57	758
Fair Condition . . . . .	...	7	3	10
Good Condition . . . . .	2	...	...	2
Poor Condition . . . . .	...	...	1	1

**SWEET CHERRIES****NUMBER AND VARIETIES OF SWEET CHERRY TREES IN MONTROSE COUNTY**

1. Bing . . . . .	104	3. Ox Heart . . . . .	50
2. Napoleon . . . . .	3		—
		Total . . . . .	157

**NUMBER AND VARIETIES OF SWEET CHERRY TREES GROWN IN MONTROSE COUNTY AND THEIR DISTRIBUTION**

Variety.	Spring Creek	Uncompahgre	Olathe.	Totals
	Mesa.	Valley.		
1. Bing . . . . .	58	21	25	104
2. Napoleon . . . . .	...	3	...	3
3. Ox Heart . . . . .	50	...	...	50
	—	—	—	—
Totals . . . . .	108	24	25	157

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Spring Creek	Uncompahgre	Olathe.	Summary
	Mesa.	Valley.		
No. Acres . . . . .	1	...	...	1
No. Trees . . . . .	108	24	25	157
Age 1-8 years . . . . .	...	6	...	6
Age 8-12 years . . . . .	100	7	...	107
Age 12-40 years . . . . .	8	11	25	44
Fair Condition . . . . .	1	4	...	5
Good Condition . . . . .	1	...	...	1
Poor Condition . . . . .	...	...	1	1

**PEACHES****NUMBER AND VARIETIES OF PEACH TREES IN MONTROSE COUNTY**

1. Champion . . . . .	5	4. Hale Early . . . . .	44
2. Early Crawford . . . . .	34		—
3. Elberta . . . . .	3,179	Total . . . . .	3,262

**NUMBER AND VARIETIES OF PEACH TREES GROWN IN MONTROSE COUNTY AND THEIR DISTRIBUTION**

Variety.	Spring Creek	Uncompahgre	Olathe.	Totals
	Mesa.	Valley.		
1. Champion . . . . .	...	...	5	5
2. Early Crawford . . . . .	...	3	31	34
3. Elberta . . . . .	1,125	723	1,331	3,179
4. Hale Early . . . . .	...	...	44	44
	—	—	—	—
Totals . . . . .	1,125	726	1,411	3,262

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Spring Creek	Uncompahgre	Olathe.	Summary
	Mesa.	Valley.		
No. Acres . . . . .	13½	7½	8	29
No. Trees . . . . .	1,125	726	1,411	3,262
Age 1-8 years . . . . .	....	....	144	144
Age 8-12 years . . . . .	400	680	700	1,780
Age 12-40 years . . . . .	725	46	567	1,338
Fair Condition . . . . .	1	5	5	11
Good Condition . . . . .	4	....	2	6
Poor Condition . . . . .	1	....	....	1

**PEARS****NUMBER AND VARIETIES OF PEAR TREES IN MONTROSE COUNTY**

1. Anjou . . . . .	6	4. Seckel . . . . .	10
2. Bartlett . . . . .	101		
3. Kieffer . . . . .	200	Total . . . . .	317

**NUMBER AND VARIETIES OF PEAR TREES GROWN IN MONTROSE COUNTY AND THEIR DISTRIBUTION**

Variety.	Spring Creek	Uncompahgre	Olathe.	Totals
	Mesa.	Valley.		
1. Anjou . . . . .	....	6	....	6
2. Bartlett . . . . .	....	36	65	101
3. Kieffer . . . . .	....	....	200	200
4. Seckel . . . . .	....	10	....	10
Totals . . . . .	....	52	265	317

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Spring Creek	Uncompahgre	Olathe.	Summary
	Mesa.	Valley.		
No. Acres . . . . .	....	....	2	2
No. Trees . . . . .	....	52	265	317
Age 1-8 years . . . . .	....	12	....	12
Age 8-12 years . . . . .	....	....	200	200
Age 12-40 years . . . . .	....	40	65	135
Fair Condition . . . . .	....	3	3	6
Good Condition . . . . .	....	....	....	....
Poor Condition . . . . .	....	....	....	....

**PLUMS****NUMBER AND VARIETIES OF PLUM TREES IN MONTROSE COUNTY**

1. Abundance . . . . .	305	6. Skipper . . . . .	5
2. Bradshaw . . . . .	5	7. Wild Goose . . . . .	5
3. Damson . . . . .	302	Unknown . . . . .	12
4. Reine Claude . . . . .	10		
5. Satsuma . . . . .	300	Total . . . . .	944

**NUMBER AND VARIETIES OF PLUM TREES GROWN IN MONTROSE COUNTY AND THEIR DISTRIBUTION**

Variety.	Spring Creek Mesa.	Uncompahgre Valley.	Olathe.	Totals
1. Abundance . . . . .	300	5	....	305
2. Bradshaw . . . . .	....	5	....	5
3. Damson . . . . .	300	2	....	302
4. Reine Claude . . . . .	....	5	5	10
5. Satsuma . . . . .	300	....	....	300
6. Shipper . . . . .	....	5	....	5
7. Wild Goose . . . . .	....	5	....	5
Unknown . . . . .	....	12	....	12
 Totals . . . . .	900	39	5	944

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Spring Creek Mesa.	Uncompahgre Valley.	Olathe.	Summary
No. Acres . . . . .	10	....	....	10
No. Trees . . . . .	900	39	5	944
Age 1-8 years . . . . .	....	....	....	....
Age 8-12 years . . . . .	900	....	....	900
Age 12-40 years . . . . .	....	39	5	44
Fair Condition . . . . .	1	1	1	3
Good Condition . . . . .	1	....	....	1
Poor Condition . . . . .	....	....	....	....

**TABLE I—NUMBER OF FRUIT TREES IN EACH DISTRICT**

District	Apples	Apricots	Cherries	Peaches	Pears	Plums	Dist. Tot.
Spring Creek Mesa . . . . .	33,716	300	683	1,125	....	900	36,724
Uncompahgre Valley . . . . .	18,421	222	239	726	52	39	19,699
Olathe . . . . .	9,176	233	102	1,411	265	5	11,192
 Entire County . . . . .	61,313	755	1024	3,262	317	944	67,615

**TABLE I-a—DISTRIBUTION (IN PERCENTAGES) OF TOTAL NUMBER OF TREES OF EACH FRUIT IN ENTIRE COUNTY BY DISTRICTS**

District	Apples	Apricots	Cherries	Peaches	Pears	Plums	Entire County
Spring Creek Mesa . . . . .	54.8	40.0	68.3	33.3	....	94.7	54.4
Uncompahgre Valley . . . . .	30.6	29.3	23.9	21.2	15.8	3.6	29.1
Olathe . . . . .	14.6	30.7	7.8	45.5	84.2	1.7	16.5
 Entire County . . . . .	100.0	100.0	100.0	100.0	100.0	100.0	100.0

**TABLE II—NUMBER OF ACRES OF EACH FRUIT FOR EACH DISTRICT IN ENTIRE COUNTY**

Fruit	Spring Creek Mesa	Umcompahgre Valley	Olathe	Entire County
Apples . . . . .	499	252 $\frac{1}{2}$	178	929 $\frac{1}{2}$
Apricots . . . . .	3	2	2	7
Peaches . . . . .	13 $\frac{1}{2}$	7 $\frac{1}{2}$	8	29
Pears . . . . .	....	....	2	2
Plums . . . . .	10	....	....	10
Sour Cherries . . . . .	6	1 $\frac{1}{2}$	....	7 $\frac{1}{2}$
Sweet Cherries . . . . .	1	....	....	1
 Total, All Fruits . . . . .	532 $\frac{1}{2}$	263 $\frac{1}{2}$	190	986

**TABLE II-a—NUMBER OF ACRES OF EACH FRUIT OF BEARING AGE FOR EACH DISTRICT**

Fruit	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
Apples . . . . .	478.6	239.4	155.1	873.1
Apricots . . . . .	3.0	2.0	1.6	6.6
Peaches . . . . .	13.5	7.5	7.5	28.5
Pears . . . . .	....	....	2.0	2.0
Plums . . . . .	10.0	....	....	10.0
Sour Cherries . . . . .	6.0	1.4	....	7.4
Sweet Cherries . . . . .	1.0	....	....	1.0
Totals, All Fruits . . . . .	512.1	250.3	166.2	928.6

**TABLE III—SIX PRINCIPAL VARIETIES OF APPLES, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
Jonathan . . . . .	35.1	41.6	26.9	35.8
Ben Davis . . . . .	18.0	13.9	16.0	16.5
Winesap . . . . .	19.3	8.3	8.3	14.3
Gano . . . . .	6.9	6.6	5.6	6.6
Ralls . . . . .	1.2	6.8	6.5	3.7
Rome . . . . .	0.5	5.3	10.6	3.5
All others (44 var.) . . . . .	19.0	17.5	26.1	19.6
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE IV—THREE PRINCIPAL VARIETIES OF PEARS, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
Kieffer . . . . .	....	....	75.4	62.5
Bartlett . . . . .	69.2	24.6	....	31.2
Seckel . . . . .	19.2	....	....	3.1
All others (1 var.) . . . . .	11.6	....	....	3.2
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE V—FOUR PRINCIPAL VARIETIES OF PEACHES, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
Elberta . . . . .	100.0	99.6	94.4	97.5
Hale Early . . . . .	....	....	3.1	1.3
Early Crawford . . . . .	....	0.4	2.1	1.0
Champion . . . . .	....	....	0.4	0.2
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE VI—SIX PRINCIPAL VARIETIES OF PLUMS AND PRUNES, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
Abundance . . . . .	33.4	12.8	....	32.3
Damson . . . . .	33.3	5.1	....	31.9
Satsuma . . . . .	33.3	12.8	....	31.8
Reine Claude . . . . .	....	12.8	100.0	0.6
Wild Goose . . . . .	....	12.8	....	0.6
Bradshaw . . . . .	....	12.9	....	0.5
All Others (1 var.) . . . . .	....	30.8	....	2.3
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE VII—FOUR PRINCIPAL VARIETIES OF APRICOTS, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
Moorpark . . . . .	100.0	52.2	73.4	77.7
Peach . . . . .	....	46.8	21.4	20.4
Royal . . . . .	....	....	5.2	1.6
Unknown . . . . .	....	1.0	....	0.3
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE VIII—SIX PRINCIPAL VARIETIES OF CHERRIES, SHOWING PERCENTAGES GROWN IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
Early Richmond . . . . .	80.4	56.9	75.5	74.5
Bing . . . . .	8.3	8.7	24.5	10.1
Montmorency . . . . .	3.4	29.2	....	9.2
Ox Heart . . . . .	7.2	....	....	4.8
English Morello . . . . .	0.4	2.5	....	0.5
Napoleon . . . . .	0.1	1.2	....	0.5
All others (1 var.) . . . . .	0.1	1.5	....	0.4
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE IX—NUMBER OF APPLE TREES OF EACH DISTRICT AND OF ENTIRE COUNTY BY AGE CLASS**

Age Class	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
1-8 years . . . . .	1,410	930	1,106	3,446
8-12 years . . . . .	4,985	3,351	2,980	11,316
12-40 years . . . . .	27,321	14,140	5,090	46,551
Totals . . . . .	33,716	18,421	9,176	61,313

**TABLE IX-a—PERCENTAGE OF APPLE TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek Mesa	Uncompahgre Valley	Olathe	Entire County
1-8 years . . . . .	38.8	26.4	34.8	100.0
8-12 years . . . . .	44.2	29.2	26.6	100.0
12-40 years . . . . .	58.6	30.1	11.3	100.0

**TABLE IX-b—PERCENTAGE OF APPLE TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	4.1	5.4	12.9	5.8
8-12 years . . . . .	14.7	18.3	32.2	18.3
12-40 years . . . . .	81.2	76.3	54.9	75.9
Totals . . . . .	169.0	100.0	100.0	100.0

**TABLE X—NUMBER OF PEAR TREES OF EACH DISTRICT AND OF ENTIRE COUNTY BY AGE CLASS**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	12	....	12
8-12 years . . . . .	....	....	200	200
12-40 years . . . . .	....	40	65	105
Totals . . . . .	....	52	265	317

**TABLE X-a—PERCENTAGE OF PEAR TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	100.0	....	100.0
8-12 years . . . . .	....	....	100.0	100.0
12-40 years . . . . .	....	38.1	61.9	100.0

**TABLE X-b—PERCENTAGE OF PEAR TREES OF EACH DISTRICT WITH RESPECT TO AGE**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	23.1	....	3.7
8-12 years . . . . .	....	....	75.5	63.1
12-40 years . . . . .	....	76.9	24.5	33.2
Totals . . . . .	....	100.0	100.0	100.0

**TABLE XI—NUMBER OF PEACH TREES OF EACH DISTRICT AND OF ENTIRE COUNTY BY AGE CLASS**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	....	144	144
8-12 years . . . . .	400	680	700	1,780
12-40 years . . . . .	725	46	567	1,338
Totals . . . . .	1,125	726	1,411	3,262

**TABLE XI-a—PERCENTAGE OF PEACH TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	....	100.0	100.0
8-12 years . . . . .	22.3	38.8	39.0	100.0
12-40 years . . . . .	50.1	3.7	46.2	100.0

## AGRICULTURAL EXPERIMENT STATION

**TABLE XI-b—PERCENTAGE OF PEACH TREES OF EACH DISTRICT WITH RESPECT TO AGE**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	....	10.5	4.5
8-12 years . . . . .	36.3	94.4	48.9	54.2
12-40 years . . . . .	63.7	5.6	40.6	41.3
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE XII—PERCENTAGE OF APRICOT TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	100.0	....	100.0
8-12 years . . . . .	93.7	1.6	4.7	100.0
12-40 years . . . . .	....	49.5	50.5	100.0

**TABLE XIII—PERCENTAGE OF PLUM TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	....	....	....
8-12 years . . . . .	100.0	....	....	100.0
12-40 years . . . . .	....	88.1	11.9	100.0

**TABLE XIV—PERCENTAGE OF SOUR CHERRY TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	53.8	46.2	100.0
8-12 years . . . . .	90.3	....	9.7	100.0
12-40 years . . . . .	65.8	26.3	7.9	100.0

**TABLE XV—PERCENTAGE OF SWEET CHERRY TREES OF EACH AGE CLASS PLANTED IN EACH DISTRICT**

Age Class	Spring Creek	Uncompahgre	Olathe	Entire County
	Mesa	Valley		
1-8 years . . . . .	....	100.0	....	100.0
8-12 years . . . . .	93.4	6.6	....	100.0
12-40 years . . . . .	18.1	25.0	56.9	100.0

**GRAND TOTALS—MONTROSE COUNTY**

Number of acres in fruit trees	986	CONDITION OF ORCHARDS	
Number of fruit trees of all kinds . . . . .	67,615	Fair . . . . .	62
Number of orchards . . . . .	81	Good . . . . .	15
DISTRIBUTION OF TREES BY AGE CLASS	Total . . . . .	Poor . . . . .	4

Age 1-8 years . . . . .	8,638
Age 8-12 years . . . . .	14,707
Age 12-40 years . . . . .	49,270

**SURVEY  
OF  
GARFIELD COUNTY**

Commercial fruit-growing in Garfield County is confined to the valley of the Colorado River, extending from Glenwood Springs westward to De Beque, the better fruit lands being along the mesas and ridges along the valley. The upper portion of the valley is less highly developed than the lower. The valley lands proper, especially in the lower end of the valley, are heavy greasewood lands and are not adapted to fruit growing. Commercial orchards are relatively few, the leading industry being general agriculture. It is doubtful if any large acreage will ever be developed for commercial fruit growing.

**Condition of the Orchards.**—With few exceptions the orchards are neglected. This condition is due to the fact that many orchards were planted on land unsuited for trees and the growers have become discouraged. Only on the higher mesas will fruit growing become profitable. Most of the commercial varieties of apples can be grown successfully while pears and peaches have not proven profitable. It is only in the more favorable locations that fruit growing can be made profitable.

**GARFIELD COUNTY**

**Grand Valley Section includes:**

Grand Valley  
Battlement Mesa  
Rulison

**Rifle Section includes:**

Rifle  
Silt

**Glenwood Springs Section includes:**

Newcastle  
Glenwood Springs

**CLIMATOLOGICAL DATA**

The fruit district of Garfield County extends from Glenwood Springs to De Beque, occupying the irregular and narrow valley of the Colorado River and the adjacent mesas. The elevation varies from 5,758 feet at Glenwood Springs to 4,945 feet

at De Beque, a distance of about 50 miles. There is considerable difference, both in temperature and length of the growing season, between the upper and lower limits of the district, as indicated by the records of the three stations.

Many of the late-maturing varieties of fruit do not reach their highest perfection in the upper end of the district, and the prospective fruit grower should consult the weather records and also visit the present orchards before setting out new orchards.

The general topography is, on the whole, very favorable for general fruit growing, especially apples. The mesa lands are, on the whole, better than the valley lands.

# ORCHARD SURVEY OF WESTERN COLORADO

37

I. Precipitation in the regions drained by the Colorado River, the Rio Grande and the San Luis Lakes: Monthly, annual, and average amounts (in inches and hundredths.)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual	Average
Glenwood Springs	1.32	0.81	1.07	1.09	1.00	0.65	1.33	1.50	1.10	1.00	0.85	1.20	12.92	1888-1917
Grand Valley	1.04	0.99	1.32	1.14	1.11	0.59	0.98	0.97	1.37	1.29	0.97	0.92	12.69	1889-1914
Rifle	0.92	0.39	0.87	1.08	1.14	0.54	0.95	1.14	1.15	1.59	0.74	0.87	11.38	1910-1917
Silt	0.90	0.82	1.37	1.14	1.45	0.70	1.17	1.21	1.35	1.03	0.72	0.65	12.51	1891-1909

Glenwood Springs, Garfield County, Colorado—Elevation 5,823 feet.

Grand Valley, Garfield County, Colorado—Elevation 5,089 feet.

Rifle, Garfield County, Colorado—Elevation 5,350 feet.

Silt, Garfield County, Colorado, Elevation 5,441 feet.

II. Average monthly and annual snowfall.

	Length of Record													
	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Glenwood Springs	16	15.8	9.8	4.4	1.1	0.3	0.0	0.0	0.0	0.6	2.3	3.8	15.0	53.1
Grand Valley	20	9.2	8.3	3.4	0.4	1.0	0.0	3.9	0.0	0.0	0.2	2.9	9.3	34.7
Rifle	7	10.5	5.8	3.1	0.3	T.	0.0	0.0	0.0	T.	T.	1.7	9.9	31.3

III. Average number of days with 0.01 inch or more precipitation.

	Length of Record													
	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Glenwood Springs	16	8	6	6	5	4	3	7	6	5	5	4	7	66
Grand Valley	20	7	8	7	6	5	5	7	8	6	5	6	6	78
Rifle	7	9	6	7	9	7	5	8	8	7	6	4	6	82

IV. Mean temperatures.

	Length of Record													
	(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Glenwood Springs	17	22.1	26.7	37.5	46.3	63.3	60.4	66.5	61.8	57.9	46.7	34.7	26.1	45.0
Grand Valley	22	24.5	30.2	40.0	49.2	57.3	66.1	72.5	71.4	62.3	49.7	37.7	24.7	48.8
Rifle	18	23.7	27.4	37.4	48.0	55.3	64.9	70.8	69.3	61.0	49.0	37.4	25.1	47.4

## AGRICULTURAL EXPERIMENT STATION

## V. Mean minimum temperatures.

Length of Record													
(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Glenwood Springs 15	7.5	12.6	24.0	30.0	35.2	39.6	44.5	44.5	37.7	27.5	19.3	8.6	27.6
Grand Valley . . . . .	11.7	17.0	25.4	32.9	40.4	46.9	51.5	42.7	31.4	22.2	11.9	32.1	
Rifle . . . . .	11.7	16.9	24.6	33.3	39.7	47.2	53.5	44.4	33.4	23.8	13.3	32.8	

## VI. Mean maximum temperatures.

Length of Record													
(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Glenwood Springs 15	36.9	40.5	50.3	61.1	68.8	79.6	84.9	83.8	76.2	65.0	51.9	38.2	61.4
Grand Valley . . . . .	37.7	42.8	54.5	65.7	75.1	85.1	90.9	88.7	80.3	66.6	53.1	37.8	64.9
Rifle . . . . .	35.0	40.8	49.6	62.9	70.6	82.4	88.0	86.5	77.9	65.1	51.9	37.6	62.4

## VII. Highest temperatures.

Length of Record													
(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Glenwood Springs 15	54	63	74	82	87	94	99	93	90	88	70	60	99
Grand Valley . . . . .	57	65	79	87	95	102	104	104	96	89	78	62	104
Rifle . . . . .	57	64	76	81	89	99	101	101	93	82	78	59	101

## VIII. Lowest temperatures.

Length of Record													
(Years)	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Glenwood Springs 15	-38	-30	-14	7	17	23	30	28	19	10	-6	-22	-38
Grand Valley . . . . .	-25	-23	-9	10	18	31	33	36	25	14	-3	-17	-25
Rifle . . . . .	-33	-25	-12	8	20	27	34	41	25	11	-13	-19	-33

## IX. Frost data.

Length of Record (Years)	Average date of last killing frost in spring.	Average date of first killing frost in autumn.	Latest date of killing frost in spring.	Earliest date of killing frost in autumn.
Glenwood Springs . . . . .	12	May 30	Sept. 17	Aug. 9
Grand Valley . . . . .	20	May 3	Sept. 29	July 4

**Glenwood Springs**—Station located in a moderately broad rolling valley, about 1-8 mile west of the Roaring Fork River. Hills east and west, and high mountains south. Conditions favorable to frost formation.

**Grand Valley**—Station located about 150 yards south of Grand River. Surroundings favorable to frost formation.

**NUMBER OF ORCHARDS IN GARFIELD COUNTY**

Glenwood Springs .....	9
Grand Valley .....	29
Rifle .....	5
Total .....	43

**NUMBER OF APPLE TREES IN EACH ORCHARD DISTRICT**

Glenwood Springs .....	4,721
Grand Valley .....	33,985
Rifle .....	5,500
Total trees .....	44,206

**NUMBER OF APRICOT TREES IN EACH ORCHARD DISTRICT**

Glenwood Springs .....	..
Grand Valley .....	330
Rifle .....	..
Total trees .....	330

**NUMBER OF CHERRY TREES IN EACH ORCHARD DISTRICT**

Glenwood Springs .....	1,030
Grand Valley .....	1,280
Rifle .....	..
Total trees .....	2,310

**NUMBER OF PEACH TREES IN EACH ORCHARD DISTRICT**

Glenwood Springs .....	100
Grand Valley .....	2,690
Rifle .....	..
Total trees .....	2,790

**NUMBER OF PEAR TREES IN EACH ORCHARD DISTRICT**

Glenwood Springs .....	..
Grand Valley .....	300
Rifle .....	..
Total trees .....	300

**NUMBER OF PLUM TREES IN EACH ORCHARD DISTRICT**

Glenwood Springs .....	225
Grand Valley .....	..
Rifle .....	..
Total trees .....	225

**SUMMARY**

No. of apple trees in Garfield county .....	44,206
No. of apricot trees in Garfield County .....	330
No. of cherry trees in Garfield county .....	2,310
No. of peach trees in Garfield county .....	2,790
No. of pear trees in Garfield county .....	300
No. of plum trees in Garfield county .....	225
Grand total .....	50,161

**CROPS GROWN IN THE ORCHARDS—GARFIELD COUNTY**

	Alfalfa	Clean Cultivation	Orchard Grass	Sweet Clover	Truck
Glenwood Springs .....	3	..	4	..	2
Grand Valley .....	14	1	7	2	5
Rifle .....	2	..	3	..	..
Totals .....	19	1	14	2	7

## APPLES

### NUMBER AND VARIETIES OF APPLE TREES IN GARFIELD COUNTY

1.	Arkansas Black . . . . .	150	16.	Paragon . . . . .	700
2.	Banana . . . . .	300	17.	Ralls . . . . .	175
3.	Beach . . . . .	100	18.	Red Astrachan . . . . .	194
4.	Ben Davis . . . . .	11,780	19.	Rome . . . . .	960
5.	Delicious . . . . .	4,291	20.	Stayman Winesap . . . . .	935
6.	Early Harvest . . . . .	325	21.	Sweet Pippin . . . . .	100
7.	Gano . . . . .	9,470	22.	Walbridge . . . . .	200
8.	Grimes . . . . .	50	23.	Wealthy . . . . .	139
9.	Iowa Blush . . . . .	100	24.	Whitney (crab) . . . . .	15
10.	Jonathan . . . . .	7,356	25.	Winesap . . . . .	2,726
11.	King David . . . . .	2,820	26.	Wolf River . . . . .	2
12.	Livland Raspberry . . . . .	3	27.	Yellow Transparent . . . . .	968
13.	Maiden Blush . . . . .	100	28.	York Imperial . . . . .	50
14.	Missouri . . . . .	94			
15.	Northwestern Greening . . . . .	103		Total . . . . .	44,206

### NUMBER AND VARIETIES OF APPLE TREES GROWN IN GARFIELD COUNTY AND THEIR DISTRIBUTION

	Variety	Glenwood Springs	Grand Valley	Rifle	Totals
1.	Arkansas Black . . . . .	.....	150	....	150
2.	Banana . . . . .	.....	300	....	300
3.	Beach . . . . .	.....	100	....	100
4.	Ben Davis . . . . .	3,810	5,170	3,300	11,780
5.	Delicious . . . . .	466	3,575	250	4,291
6.	Early Harvest . . . . .	.....	325	....	325
7.	Gano . . . . .	265	9,105	100	9,470
8.	Grimes . . . . .	.....	50	....	50
9.	Iowa Blush . . . . .	.....	100	....	100
10.	Jonathan . . . . .	350	5,956	1,050	7,356
11.	King David . . . . .	.....	2,820	....	2,820
12.	Livland Raspberry . . . . .	3	....	....	3
13.	Maiden Blush . . . . .	.....	100	....	100
14.	Missouri . . . . .	.....	94	....	94
15.	Northwestern Greening . . . . .	.....	103	....	103
16.	Paragon . . . . .	.....	500	200	700
17.	Ralls . . . . .	.....	175	....	175
18.	Red Astrachan . . . . .	.....	194	....	194
19.	Rome . . . . .	100	610	250	960
20.	Stayman Winesap . . . . .	.....	935	....	935
21.	Sweet Pippin . . . . .	.....	100	....	100
22.	Walbridge . . . . .	.....	200	....	200
23.	Wealthy . . . . .	39	100	....	139
24.	Whitney (crab) . . . . .	15	....	....	15
25.	Winesap . . . . .	73	2,303	350	2,726
26.	Wolf River . . . . .	2	....	....	2
27.	Yellow Transparent . . . . .	98	870	....	968
28.	York Imperial . . . . .	.....	50	....	50
	Totals . . . . .	4,721	33,985	5,500	44,206

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Glenwood Springs	Grand Valley	Rifle	Summary
No. Acres . . . . .	50	328	55	433
No. Trees . . . . .	4,721	33,985	5,500	44,206
Age 1-8 years . . . . .	500	2,210	....	2,710
Age 8-12 years . . . . .	64	15,430	2,000	18,074
Age 12-40 years . . . . .	3,580	16,345	3,500	23,425
Fair Condition . . . . .	4	10	2	16
Good Condition . . . . .	4	16	2	22
Poor Condition . . . . .	1	3	1	5

**APRICOTS****NUMBER AND VARIETIES OF APRICOT TREES IN GARFIELD COUNTY**

1. Moorpark . . . . .	330
-----------------------	-----

**NUMBER AND VARIETIES OF APRICOT TREES GROWN IN GARFIELD COUNTY AND THEIR DISTRIBUTION**

Variety	Glenwood Springs	Grand Valley	Rifle	Totals
1. Moorpark . . . . .	330	....	....	330

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Glenwood Springs	Grand Valley	Rifle	Summary
No. Acres . . . . .	....	3	....	3
No. Trees . . . . .	....	330	....	330
Age 1-8 years . . . . .	....	....	....	....
Age 8-12 years . . . . .	....	330	....	330
Age 12-40 years . . . . .	....	....	....	....
Fair Condition . . . . .	....	....	....	....
Good Condition . . . . .	....	1	....	1
Poor Condition . . . . .	....	....	....	....

**CHERRIES****NUMBER AND VARIETIES OF CHERRY TREES IN GARFIELD COUNTY**

1. Bing . . . . .	100
2. Early Richmond . . . . .	1,313
3. English Morello . . . . .	300
4. Montmorency . . . . .	324
5. Sixteen-to-One . . . . .	273
Total . . . . .	2,310

**NUMBER AND VARIETIES OF CHERRY TREES GROWN IN GARFIELD COUNTY AND THEIR DISTRIBUTION**

Variety	Glenwood Springs	Grand Valley	Rifle	Totals
1. Bing . . . . .	100	....	....	100
2. Early Richmond . . . . .	900	413	....	1,313
3. English Morello . . . . .	30	270	....	300
4. Montmorency . . . . .	....	324	....	324
5. Sixteen-to-One . . . . .	....	273	....	273
Totals . . . . .	1,030	1,280	....	2,310

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Glenwood Springs	Grand Valley	Rifle	Summary
No. Acres . . . . .	11	11½	....	22½
No. Trees . . . . .	1,030	1,280	....	2,310
Age 1-8 years . . . . .	....	....	....	....
Age 8-12 years . . . . .	950	1,180	....	2,130
Age 12-40 years . . . . .	80	100	....	180
Fair Condition . . . . .	2	1	....	3
Good Condition . . . . .	2	2	....	4
Poor Condition . . . . .	....	....	....	....

**PEACHES****NUMBER AND VARIETIES OF PEACH TREES IN GARFIELD COUNTY**

1. Austin . . . . .	....	100
2. Carman . . . . .	....	350
3. Early Crawford . . . . .	....	100
4. Elberta . . . . .	....	2,090
Unknown . . . . .	....	150
Total . . . . .	....	2,790

**NUMBER AND VARIETIES OF PEACH TREES GROWN IN GARFIELD COUNTY AND THEIR DISTRIBUTION**

Variety	Glenwood Springs	Grand Valley	Rifle	Totals
1. Austin . . . . .	....	100	....	100
2. Carman . . . . .	....	350	....	350
3. Early Crawford . . . . .	....	100	....	100
4. Elberta . . . . .	100	1,990	....	2,090
Unknown . . . . .	....	150	....	150
Totals . . . . .	100	2,690	....	2,790

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Glenwood Springs	Grand Valley	Rifle	Summary
No. Acres . . . . .	4	19	....	23
No. Trees . . . . .	100	2,690	....	2,790
Age 1-8 years . . . . .	....	370	....	370
Age 8-12 years . . . . .	....	1,020	....	1,020
Age 12-40 years . . . . .	100	1,300	....	1,400
Fair Condition . . . . .	1	5	....	6
Good Condition . . . . .	....	1	....	1
Poor Condition . . . . .	....	1	....	1

**PEARS****NUMBER AND VARIETIES OF PEAR TREES IN GARFIELD COUNTY**

1. Joannet . . . . .	....	100
2. Klaffer . . . . .	....	100
3. Worcester . . . . .	....	100
Total . . . . .	....	300

**NUMBER AND VARIETIES OF PEAR TREES GROWN IN GARFIELD COUNTY AND THEIR DISTRIBUTION**

Variety	Glenwood Springs	Grand Valley	Rifle	Totals
1. Joannet . . . . .	100	....	....	100
2. Kieffer . . . . .	100	....	....	100
3. Worcester . . . . .	100	....	....	100
<b>Totals . . . . .</b>	<b>300</b>	<b>....</b>	<b>....</b>	<b>300</b>

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Glenwood Springs	Grand Valley	Rifle	Summary
No. Acres . . . . .	4	....	....	4
No. Trees . . . . .	300	....	....	300
Age 1-8 years . . . . .	....	....	....	....
Age 8-12 years . . . . .	....	....	....	....
Age 12-40 years . . . . .	300	....	....	300
Fair Condition . . . . .	....	....	....	....
Good Condition . . . . .	....	....	....	....
Poor Condition . . . . .	1	....	....	1

**PLUMS****NUMBER AND VARIETIES OF PLUM TREES IN GARFIELD COUNTY**

1. German Prune . . . . .	63	....	....	63
2. Italian Prune . . . . .	80	....	....	80
3. Lombard . . . . .	47	....	....	47
4. Reine Claude . . . . .	5	....	....	5
5. Washington . . . . .	20	....	....	20
6. Yellow Egg . . . . .	10	....	....	10
<b>Total . . . . .</b>	<b>225</b>	<b>....</b>	<b>....</b>	<b>225</b>

**NUMBER AND VARIETIES OF PLUM TREES GROWN IN GARFIELD COUNTY AND THEIR DISTRIBUTION**

Variety	Glenwood Springs	Grand Valley	Rifle	Totals
1. German Prune . . . . .	63	....	....	63
2. Italian Prune . . . . .	80	....	....	80
3. Lombard . . . . .	47	....	....	47
4. Reine Claude . . . . .	5	....	....	5
5. Washington . . . . .	20	....	....	20
6. Yellow Egg . . . . .	10	....	....	10
<b>Totals . . . . .</b>	<b>225</b>	<b>....</b>	<b>....</b>	<b>225</b>

**DISTRIBUTION, ACREAGE, TREES, AGE, AND CONDITION**

	Glenwood Springs	Grand Valley	Rifle	Summary
No. Acres . . . . .	4	....	....	4
No. Trees . . . . .	225	....	....	225
Age 1-8 years . . . . .	....	....	....	....
Age 8-12 years . . . . .	....	....	....	....
Age 12-40 years . . . . .	225	....	....	225
Fair Condition . . . . .	1	....	....	1
Good Condition . . . . .	3	....	....	3
Poor Condition . . . . .	....	....	....	....

## AGRICULTURAL EXPERIMENT STATION

**TABLE I—NUMBER OF FRUIT TREES IN EACH DISTRICT**

District	Apples	Apricots	Cherries	Peaches	Pears	Plums	Dist. T'1
Glenwood Springs . . . . .	4,721	....	1,030	100	....	225	6,076
Grand Valley . . . . .	33,985	330	1,280	2,690	300	....	38,585
Rifle . . . . .	5,500	....	....	....	....	....	5,500
Entire County . . . . .	44,206	330	2,310	2,790	300	225	50,161

**TABLE II—NUMBER OF ACRES OF EACH FRUIT FOR EACH DISTRICT IN ENTIRE COUNTY**

	Glenwood Springs	Grand Valley	Rifle	Entire County
Apples . . . . .	50	328	55	433.0
Apricots . . . . .	....	3	....	3.0
Cherries . . . . .	11	11.5	....	22.5
Peaches . . . . .	4	19	....	23.0
Pears . . . . .	....	4	....	4.0
Plums . . . . .	4	....	....	4.0
Totals, all fruits . . . . .	69	365.5	55	489.5

**TABLE II-a—NUMBER OF ACRES OF EACH FRUIT OF BEARING AGE FOR EACH DISTRICT**

	Glenwood Springs	Grand Valley	Rifle	Entire County
Apples . . . . .	44.7	325.1	55	424.8
Apricots . . . . .	....	3.0	....	3.0
Cherries . . . . .	11.0	11.5	....	22.5
Peaches . . . . .	4.0	16.8	....	20.8
Pears . . . . .	....	4.0	....	4.0
Plums . . . . .	4.0	....	....	4.0
Totals, all fruits . . . . .	63.7	360.4	55	479.1

**TABLE III—SIX PRINCIPAL VARIETIES OF APPLES, SHOWING PERCENTAGES GROW IN EACH DISTRICT AND IN ENTIRE COUNTY**

Variety	Glenwood Springs	Grand Valley	Rifle	Entire County
Ben Davis . . . . .	70.2	15.0	60.0	25.0
Gano . . . . .	4.2	26.8	1.8	20.5
Jonathan . . . . .	6.4	17.2	18.2	15.9
Delicious . . . . .	8.6	10.2	3.6	9.1
King David . . . . .	....	8.2	....	4.5
Winesap . . . . .	1.4	6.7	5.4	4.4
All others (22 var.) . . . . .	9.3	15.8	11.0	20.6
Totals . . . . .	100.0	100.0	100.0	100.0

**TABLE IV—NUMBER OF APPLE TREES OF EACH DISTRICT AND OF ENTIRE COUNTY BY AGE CLASS**

Age Class	Glenwood Springs	Grand Valley	Rifle	Entire County
1-8 years . . . . .	500	2,210	....	2,710
8-12 years . . . . .	641	15,430	2,000	18,071
12-40 years . . . . .	3,580	16,345	3,500	23,425
Totals . . . . .	4,721	33,985	5,500	44,206

**GRAND TOTALS—GARFIELD COUNTY**

Number of acres in fruit trees.....	489.5
Number of fruit trees of all kinds.....	50,161.
Number of orchards .....	43.

**DISTRIBUTION OF TREES BY AGE CLASS**

Age 1-8 years .....	3,080
Age 8-12 years .....	21,551
Age 12-40 years .....	25,530

**CONDITION OF ORCHARDS**

Fair .....	15
Good .....	23
Poor .....	5
	43