

UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics
Office of the Agricultural Statistician

SPECIAL PACIFIC NORTHWEST FRUIT AND BERRY SURVEY

A P P L E S

AVERAGE YIELDS PER TREE BY AGE GROUPS AND VARIETIES
CROP OF 1935

WASHINGTON

and

OREGON

306 U. S. Courthouse Portland, Oregon

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FIRST HALF OF BOOKLET

WASHINGTON APPLES

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OREGON APPLES

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The General Crops Section of the Agricultural Adjustment Administration contributed valuable support to the Survey by providing part of the technical and clerical personnel required in the collection and summarization of the data.

INTRODUCTION

WASHINGTON - APPLES

The data shown in this booklet for Apples are a by-product of the results obtained from the Special Pacific Northwest Fruit Tree and Berry Acreage Survey conducted in the State of Washington in 1936. In this Survey the fruit trees were enumerated by kind, variety and age groups, and production by kind and variety for 1935. In this booklet the average yields per tree for the crop of 1935, as reported by growers, are shown for varieties and age groups by districts and State. As the yields shown are a composite of a number of different counties within the district, they should not be construed as being representative of any particular county. Likewise, as the data are for one year only, the entire yield level might be either higher or lower for any other year. Individual orchards may vary greatly from the yields shown, though it is believed that the data give a reliable picture of the effect of increasing age upon the yields of apple trees in the State of Washington. The yields shown include graded fruit, culls, and that part of the crop which remained unharvested due to the unprecedented freeze in late October and early November, 1935.

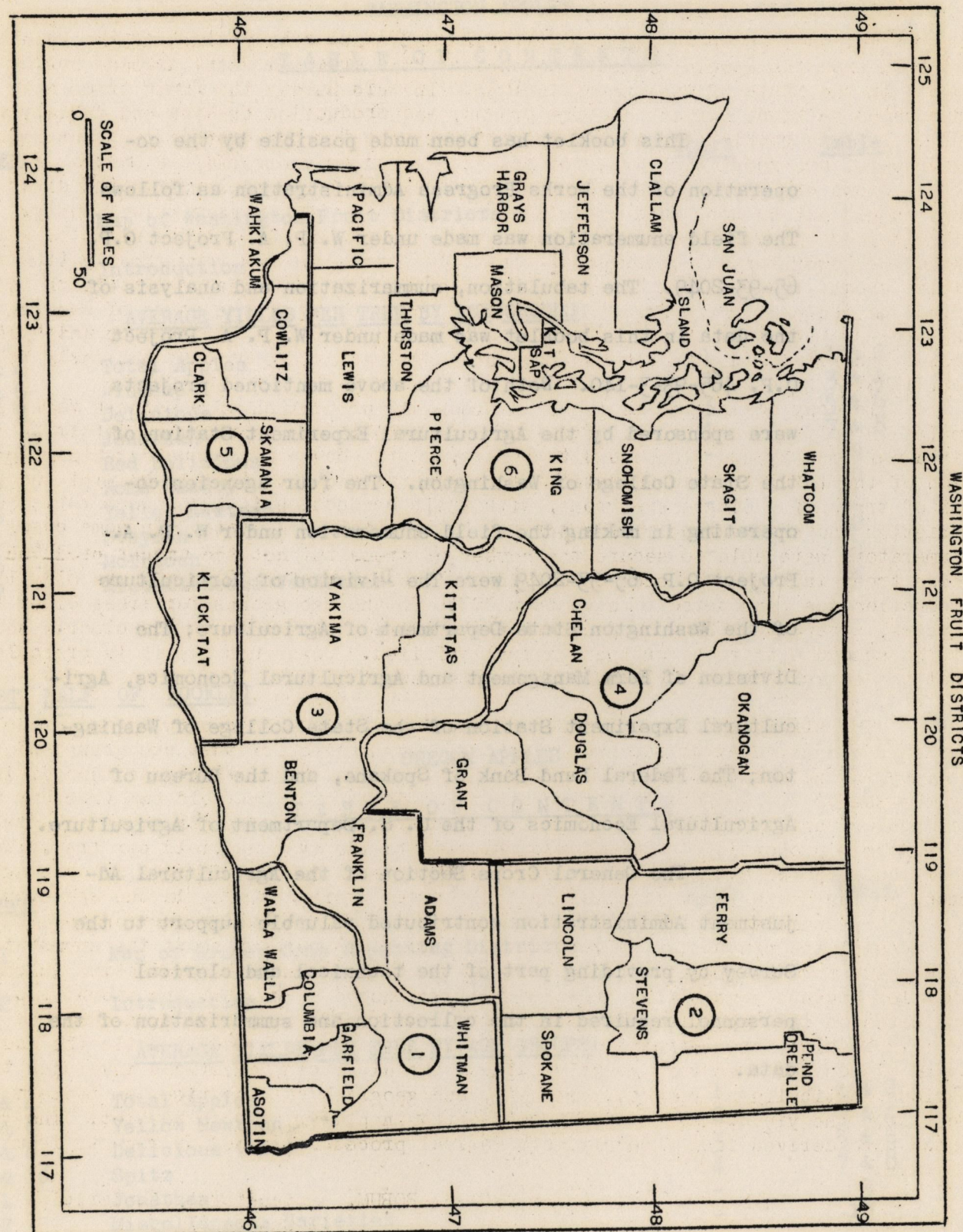
In many cases growers reported trees and production of a certain variety of apples in only one age group. From these reports it was possible to determine the yield per tree by age groups and varieties, on the basis of a considerable proportion of the total trees enumerated. In preparing the data in this booklet the number of trees of a single age group, with their production in 1935, were relisted by varieties and the average yields derived by districts and State. In some cases the enumerators were able to secure the number of trees but not the amount produced by these trees in 1935. In such cases, if the trees were from 2 to 5 years old, the production was considered to have been "0". In the age groups for trees older than 5 years, a report showing no production was edited out unless it was clearly shown by the schedule that the crop had actually failed. Consequently, it is probable that the derived average yields shown are somewhat high.

The straight average yield per tree derived in each county by age group and variety, was weighted by the number of trees enumerated for that age group and variety in the county. The sum of the extensions in the district was then divided by the sum of the weights to arrive at the weighted average yield per tree for the particular variety and age group in the district. In this manner counties were given their proportionate importance relative to the average yield per tree. To test the weighted average yields per tree, the total number of trees in each age group in the State was multiplied by the derived average yields in the age group and the total accumulated production was compared with the total production enumerated. The accumulated production by varieties is almost 13 percent above the enumerated production for all apples. It is believed that the enumerated production is somewhat low because some of the trees actually produced a crop but the amount was not indicated on the schedule. In preparing the Charts found on the even numbered pages of this booklet, the weighted average yields per tree were used. While the indicated yields per tree vary greatly between the districts, questions involving the various horticultural aspects, agronomy, and geographical location, as these may bear upon the yield, have not been considered in preparing this booklet. The yields shown were derived from a purely mathematical procedure, based on reports from growers.

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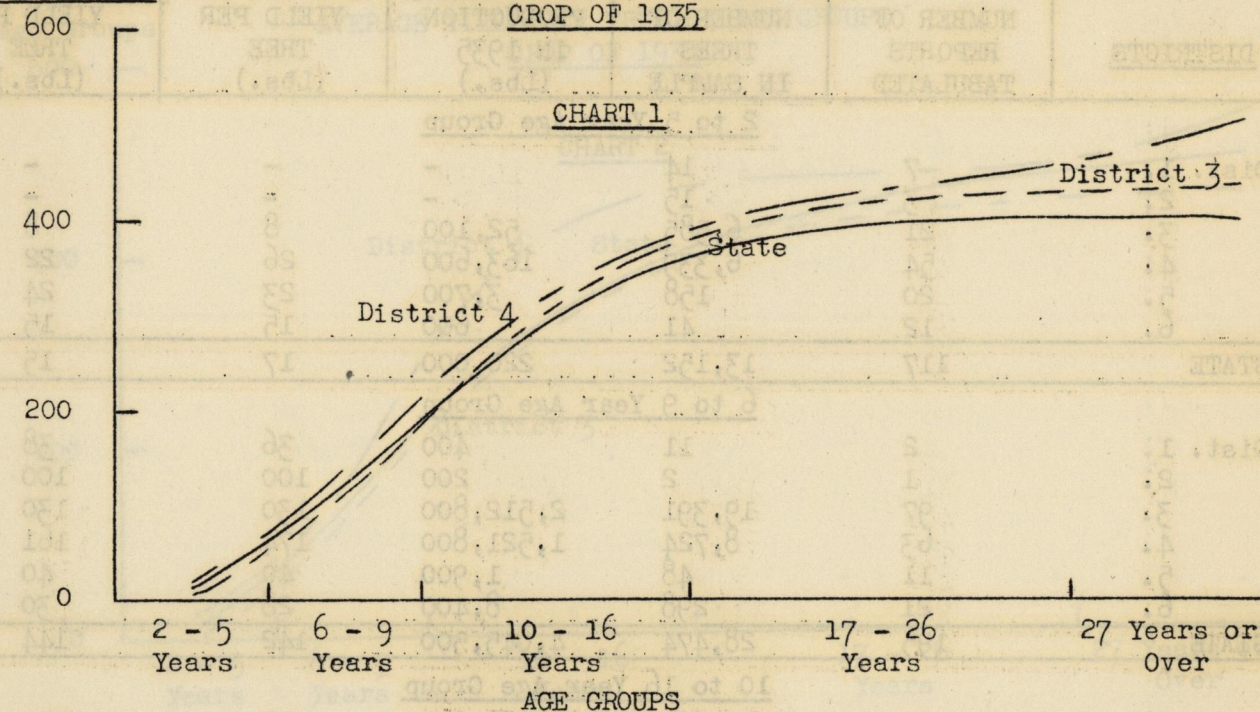
C. J. HELTEMES, Assistant Statistician



TOTAL APPLES - WASHINGTON					
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935					
FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	127	1,318	11,900	9	12
2.	143	3,046	79,800	26	26
3.	296	49,500	397,700	8	9
4.	842	93,829	1,734,200	18	19
5.	342	3,762	27,700	7	5
6.	279	2,209	30,900	14	17
STATE	2,029	153,664	2,282,200	15	15
6 to 9 Year Age Group					
Dist. 1.	54	618	52,000	84	73
2.	119	17,984	1,251,100	70	78
3.	446	96,884	9,156,400	95	104
4.	455	73,677	10,004,800	136	135
5.	217	2,739	212,500	78	77
6.	397	4,771	207,500	43	48
STATE	1,688	196,673	20,884,300	106	120
10 to 16 Year Age Group					
Dist. 1.	257	11,477	2,569,800	224	194
2.	343	24,082	5,553,500	231	232
3.	1,471	257,324	81,435,500	316	315
4.	843	117,502	37,918,000	323	320
5.	513	13,718	1,141,800	83	84
6.	928	13,279	1,003,200	76	77
STATE	4,355	437,382	129,621,800	296	300
17 to 26 Year Age Group					
Dist. 1.	349	12,356	3,105,000	251	256
2.	796	69,253	21,253,400	307	306
3.	3,255	476,372	195,098,200	410	415
4.	3,818	546,402	239,292,200	438	430
5.	766	45,985	6,275,100	136	131
6.	1,146	23,128	2,374,900	103	103
STATE	10,130	1,173,496	467,398,800	398	397
27 Years or Older Age Group					
Dist. 1.	137	4,219	978,600	232	245
2.	247	15,244	4,541,100	298	317
3.	991	123,127	53,845,200	437	434
4.	1,007	100,199	49,512,200	494	504
5.	784	22,563	3,157,000	140	140
6.	2,013	53,285	5,262,300	99	100
STATE	5,179	318,637	117,296,400	368	400
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	924	29,988	6,717,300	224	207
2.	1,648	129,609	32,678,900	252	257
3.	6,459	1,003,207	339,933,000	339	331
4.	6,965	931,609	338,461,400	363	334
5.	2,622	88,767	10,814,100	122	117
6.	4,763	96,672	8,878,800	92	92
STATE	23,381	2,279,852	737,483,500	323	313

Pounds Per Tree
For Specified
Age Groups

TOTAL APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



The data presented for Total Apples on Page 3 is a combination of the varietal data found on Pages 5, 7, 9, 11, 12, 13, 14, 15 and 16. While only 14,577 apple growing farms were enumerated in the Survey, many farms grew more than one variety, and the sum of the varietal reports exceeds the total number of farms reporting apple trees. The sum of the varietal reports represents 2,279,852 trees, or about 56 percent of the total of 4,100,341 apple trees of all ages and varieties enumerated.

In the 2 to 5 year age group, 153,664 apple trees of all varieties yielded an average of 15 pounds, while 196,673 trees in the 6 to 9 year group averaged 120 pounds; 437,382 trees in the 10 to 16 year group averaged 300 pounds; 1,173,496 trees in the 17 to 26 year group averaged 397 pounds, and 318,637 trees in the 27 year or older group averaged 400 pounds.

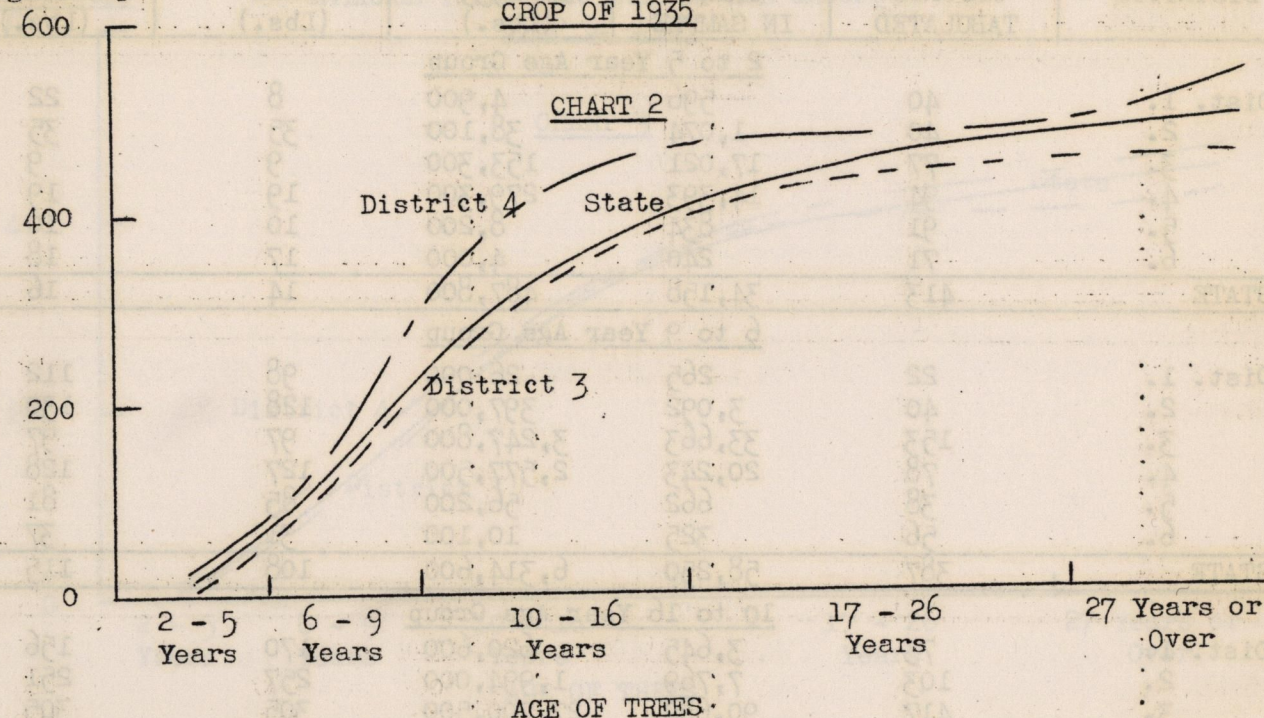
Table 2.
TOTAL APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
Yield in Pounds					
District 1.	12	73	194	256	245
District 2.	26	78	232	306	317
District 3.	9	104	315	415	434
District 4.	19	135	320	430	504
District 5.	5	77	84	131	140
District 6.	17	48	77	103	100
STATE AVERAGE	15	120	300	397	400

WINESAP APPLES - WASHINGTON					
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935					
DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	7	14	-	-	-
2.	3	15	-	-	-
3.	21	6,585	52,100	8	8
4.	54	6,339	163,600	26	22
5.	20	158	3,700	23	24
6.	12	41	600	15	15
STATE	117	13,152	220,000	17	15
6 to 9 Year Age Group					
Dist. 1.	2	11	400	36	38
2.	1	2	200	100	100
3.	97	19,391	2,512,800	130	130
4.	63	8,724	1,521,800	174	161
5.	11	48	1,900	40	40
6.	21	298	8,400	28	30
STATE	195	28,474	4,045,500	142	144
10 to 16 Year Age Group					
Dist. 1.	25	299	68,800	230	213
2.	16	1,059	174,700	165	166
3.	353	94,000	31,528,000	335	335
4.	220	31,246	12,175,100	390	392
5.	13	143	7,200	50	52
6.	34	142	8,000	56	55
STATE	661	126,889	43,961,800	346	351
17 to 26 Year Age Group					
Dist. 1.	53	2,497	1,075,900	431	399
2.	29	2,821	969,800	344	333
3.	849	208,921	90,930,400	435	441
4.	985	263,966	126,471,800	479	474
5.	18	212	26,300	124	108
6.	41	225	21,500	96	104
STATE	1,975	478,642	219,495,700	459	457
27 Years or Older Age Group					
Dist. 1.	11	239	119,700	501	512
2.	26	1,720	444,900	259	262
3.	254	60,319	27,959,800	464	457
4.	229	40,999	21,460,200	523	539
5.	28	403	47,100	117	110
6.	65	610	56,700	93	118
STATE	613	104,290	50,088,400	480	494
Total - All Ages (1 Year or less Excluded)					
Dist. 1.	98	3,060	1,264,800	413	368
2.	75	5,617	1,589,600	283	279
3.	1,574	389,216	152,983,100	393	378
4.	1,551	351,274	161,792,500	461	435
5.	90	964	86,200	89	89
6.	173	1,316	95,200	72	87
STATE	3,561	751,447	317,811,400	423	404

Pounds per Tree
For Specified
Age Groups

WINESAP APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



Out of a total of 6,110 Winesap Apple growing farms enumerated in the Survey, about 58 percent or 3,561, reported Winesap trees in only one age group. These 3,561 farms represent a total of 751,447 Winesap trees of all ages over one year, or about 56 percent of the total of 1,349,673 Winesap trees of all ages enumerated.

In the 2 to 5 year age group 117 farms reported 13,152 trees which averaged 15 pounds per tree, while in the 6 to 9 year group, 195 farms reported 28,474 trees which averaged 144 pounds. Similarly, in the 10 to 16 year group 661 farms reported 126,889 trees with an average of 351 pounds; in the 17 to 26 year group, 1,975 farms reported 478,642 trees averaging 457 pounds, and in the 27 year or older group 613 farms reported 104,290 trees which averaged 494 pounds, or about 10 bushels each.

WINESAP APPLES - WASHINGTON
Table 4. AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

DISTRICTS	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
Yield in Pounds					
District 1.	-	38	213	399	512
District 2.	-	100	166	333	262
District 3.	8	130	335	441	457
District 4.	22	161	392	474	539
District 5.	24	40	52	108	110
District 6.	15	30	55	104	118
STATE AVERAGE	15	144	351	457	494

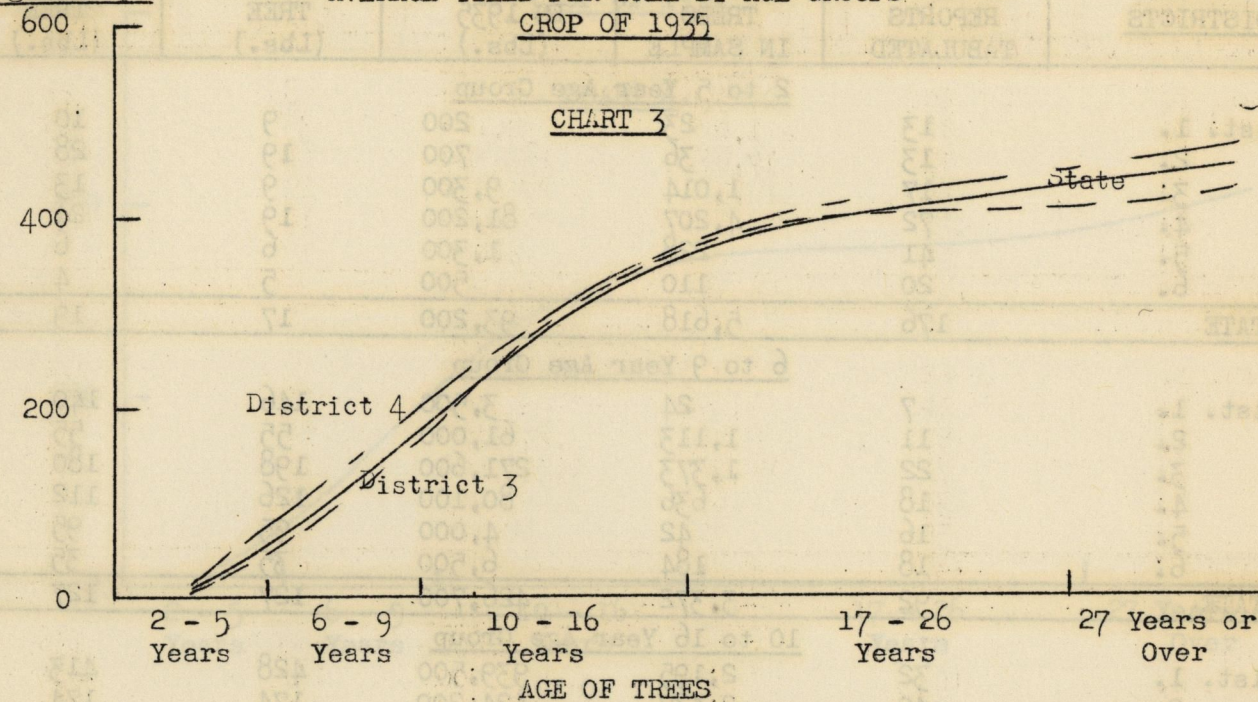
Table 5.

DELICIOUS APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	40	596	4,900	8	22
2.	40	1,074	38,100	35	35
3.	77	17,021	153,300	9	9
4.	94	14,393	279,300	19	19
5.	91	834	8,200	10	10
6.	71	240	4,000	17	18
STATE	413	34,158	487,800	14	16
6 to 9 Year Age Group					
Dist. 1.	22	265	26,000	98	112
2.	40	3,092	397,000	128	130
3.	153	33,663	3,247,800	97	97
4.	78	20,243	2,577,500	127	128
5.	38	662	56,200	85	81
6.	56	325	10,100	31	37
STATE	387	58,250	6,314,600	108	115
10 to 16 Year Age Group					
Dist. 1.	73	3,645	620,600	170	156
2.	103	7,769	1,994,000	257	251
3.	417	90,689	27,700,500	305	305
4.	286	60,093	17,545,400	292	293
5.	62	858	83,400	97	96
6.	99	556	39,500	71	71
STATE	1,040	163,610	47,983,400	293	293
17 to 26 Year Age Group					
Dist. 1.	58	1,053	323,500	307	304
2.	151	8,778	3,169,100	361	355
3.	457	54,670	22,206,900	406	409
4.	679	117,465	48,924,500	417	415
5.	58	2,899	449,600	155	145
6.	89	459	51,300	112	116
STATE	1,492	185,324	75,124,900	405	406
27 Years or Older Age Group					
Dist. 1.	10	64	16,200	253	244
2.	26	1,174	384,900	328	376
3.	119	9,798	4,176,700	426	428
4.	155	17,899	8,537,100	477	474
5.	20	180	29,000	161	159
6.	85	440	78,100	178	179
STATE	415	29,555	13,222,000	447	455
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	203	5,623	991,200	176	166
2.	360	21,887	5,983,100	273	265
3.	1,223	205,841	57,485,200	279	266
4.	1,292	230,093	77,863,800	338	305
5.	269	5,433	626,400	115	118
6.	400	2,020	183,000	91	91
STATE	3,747	470,897	143,132,700	304	286

Pounds per Tree
For Specified
Age Groups

DELICIOUS APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



The Survey listed a total of 6,664 farms reporting Delicious trees, of which 3,747 or about 56 percent, reported Delicious trees in only one age group. These 3,747 farms represented a total of 470,897 trees over one year old, or about 44 percent of the total of 1,075,753 Delicious trees of all ages enumerated.

In the 2 to 5 year group 413 farms reported 34,158 trees which in 1935 averaged 16 pounds of apples each, while in the 6 to 9 year group 387 farms reported 58,250 trees which averaged 115 pounds. In the 10 to 16 year group 1,040 farms reported 163,610 trees with an average of 293 pounds; in the 17 to 26 year group 1,492 farms reported 185,324 trees averaging 406 pounds, and in the 27 year or older group 415 farms reported 29,555 Delicious trees which produced an average of 455 pounds of Apples in 1935.

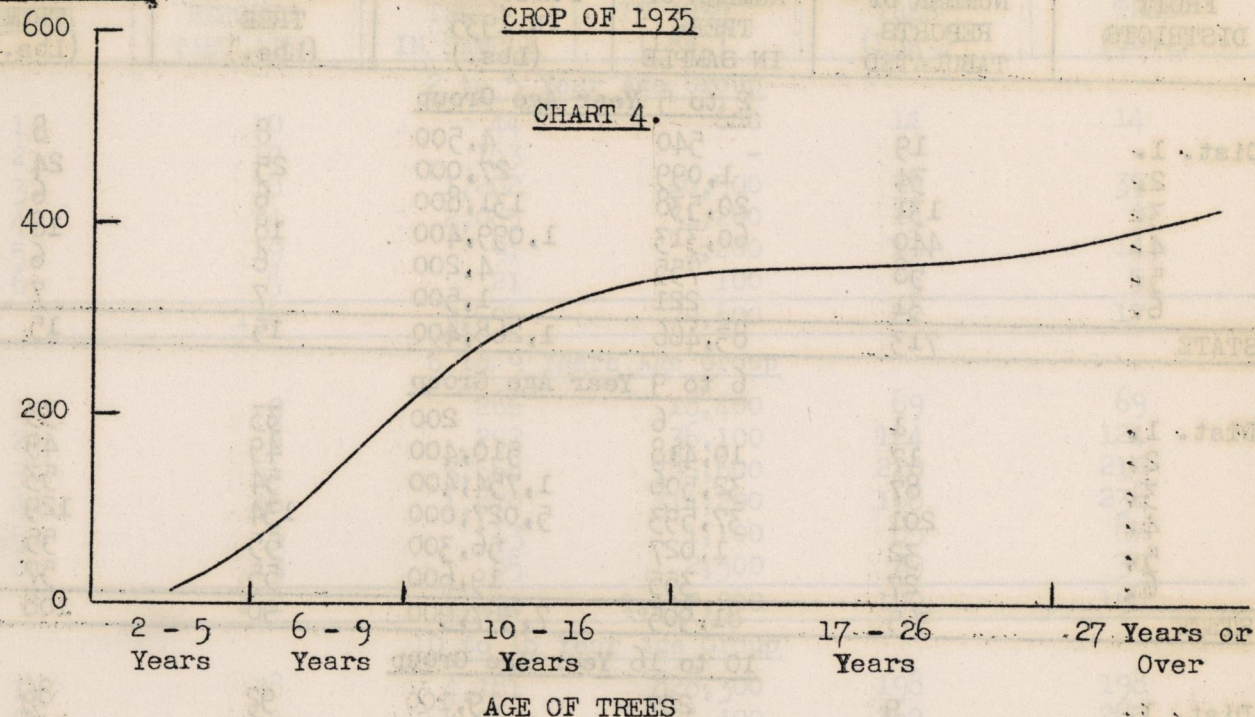
Table 6.
DELICIOUS APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
-- Yield in Pounds --					
District 1.	22	112	156	304	244
District 2.	35	130	251	355	376
District 3.	9	97	305	409	428
District 4.	19	128	293	415	474
District 5.	10	81	96	145	159
District 6.	18	37	71	116	179
STATE AVERAGE	16	115	293	406	455

JONATHAN APPLES - WASHINGTON					
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935					
FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	13	23	200	9	10
2.	13	36	700	19	28
3.	17	1,014	9,300	9	13
4.	72	4,207	81,200	19	24
5.	41	228	1,300	6	6
6.	20	110	500	5	4
STATE	176	5,618	93,200	17	19
6 to 9 Year Age Group					
Dist. 1.	7	24	3,500	146	140
2.	11	1,113	61,000	55	55
3.	22	1,373	271,600	198	180
4.	18	636	80,100	126	112
5.	16	42	4,000	95	95
6.	18	184	6,500	35	35
STATE	92	3,372	426,700	127	127
10 to 16 Year Age Group					
Dist. 1.	32	2,195	939,500	428	413
2.	49	2,437	424,200	174	174
3.	219	26,620	8,196,500	308	309
4.	97	5,275	1,706,500	324	328
5.	29	84	8,500	101	90
6.	58	370	24,300	66	68
STATE	484	36,981	11,299,500	306	308
17 to 26 Year Age Group					
Dist. 1.	59	2,917	494,300	169	171
2.	165	19,681	6,336,700	322	322
3.	743	112,988	41,463,100	367	367
4.	752	72,179	27,034,900	375	381
5.	69	1,058	121,800	115	116
6.	55	297	18,000	61	65
STATE	1,843	209,120	75,468,800	361	363
27 Years or Older Age Group					
Dist. 1.	19	266	63,600	239	183
2.	50	4,078	1,229,700	302	345
3.	206	24,106	9,463,700	393	387
4.	228	18,464	9,095,000	493	490
5.	28	308	43,000	140	154
6.	58	570	51,700	91	89
STATE	589	47,792	19,946,700	417	416
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	130	5,425	1,501,100	277	238
2.	288	27,345	8,052,300	294	307
3.	1,207	166,101	59,404,200	358	353
4.	1,167	100,761	37,997,700	377	380
5.	183	1,720	178,600	104	111
6.	209	1,531	101,000	66	67
STATE	3,184	302,883	107,234,900	354	355

Pounds per Tree
For Specified
Age Groups

JONATHAN APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



In the Survey, 4,803 farms reported Jonathan Apple trees, of which 3,184 farms, or about 66 percent, reported Jonathan trees in only one age group. These 3,184 farms represented a total of 302,883 Jonathan trees over one year old; or about 69 percent of the total of 441,820 trees of all ages enumerated.

The 1935 yields started with an average production of 19 pounds per tree in the 2 to 5 year group, according to reports from 176 farms representing 5,618 trees, and increased to 127 pounds in the 6 to 9 year group. In the 10 to 16 year group, 484 farms representing 36,981 trees reported an average of 308 pounds per tree, while 1,843 farms representing 209,120 trees 17 to 26 years old reported an average of 363 pounds, and 589 farms representing 47,792 trees 27 years old or older reported an average production of 416 pounds, or almost 9 bushels per tree.

Table 8. JONATHAN APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
-- Yield in Pounds --					
District 1.	10	140	413	171	183
District 2.	28	55	174	322	345
District 3.	13	180	309	367	387
District 4.	24	112	328	381	490
District 5.	6	95	90	116	154
District 6.	4	35	68	65	89
STATE AVERAGE	19	127	308	363	416

Table 9. RED DELICIOUS APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	19	540	4,500	8	8
2.	34	1,099	27,000	25	24
3.	131	20,538	131,800	6	6
4.	440	60,313	1,099,400	18	18
5.	58	755	4,200	6	6
6.	31	221	1,500	7	7
STATE	713	83,466	1,268,400	15	15
6 to 9 Year Age Group					
Dist. 1.	1	6	200	33	33
2.	17	10,418	510,400	49	49
3.	87	32,506	1,754,400	54	53
4.	201	37,593	5,027,000	134	129
5.	32	1,027	56,300	55	55
6.	27	355	19,600	55	57
STATE	365	81,905	7,367,900	90	108
10 to 16 Year Age Group					
Dist. 1.	9	207	19,100	92	86
2.	9	446	69,700	156	146
3.	53	9,016	1,979,300	220	222
4.	53	7,978	2,223,900	279	281
5.	32	615	61,100	99	105
6.	43	285	18,400	65	77
STATE	199	18,547	4,371,500	236	249
17 to 26 Year Age Group					
Dist. 1.	9	66	25,300	383	195
2.	9	456	57,500	126	126
3.	41	4,423	1,430,000	323	323
4.	20	2,691	897,200	333	274
5.	18	75	13,900	185	184
6.	30	101	11,200	111	107
STATE	127	7,812	2,435,100	312	280
27 Years or Older Age Group					
Dist. 1.	-	-	-	-	-
2.	6	230	51,400	223	223
3.	7	562	225,500	401	401
4.	6	1,062	401,600	378	378
5.	5	24	4,600	192	205
6.	37	131	16,800	128	129
STATE	61	2,009	699,900	348	359
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	38	819	49,100	60	59
2.	75	12,649	716,000	57	56
3.	319	67,045	5,521,000	82	91
4.	720	109,637	9,649,100	88	112
5.	145	2,496	140,100	56	55
6.	168	1,093	67,500	62	68
STATE	1,465	193,739	16,142,800	83	104

Table 10. ROME BEAUTY APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	10	44	600	14	14
2.	10	153	-	-	-
3.	18	1,202	46,500	39	39
4.	74	2,085	31,200	15	9
5.	19	91	1,200	13	14
6.	5	21	100	5	5
STATE	136	3,596	79,600	22	17
6 to 9 Years Age Group					
Dist. 1.	9	266	18,400	69	69
2.	8	292	36,100	124	124
3.	51	3,568	785,600	220	215
4.	46	1,870	314,200	168	236
5.	5	13	1,100	85	87
6.	13	85	2,500	29	30
STATE	132	6,094	1,157,900	190	196
10 to 16 Year Age Group					
Dist. 1.	38	4,181	828,300	198	198
2.	65	6,963	1,824,400	262	265
3.	248	28,631	10,388,800	363	363
4.	77	5,655	2,288,600	405	409
5.	19	83	8,600	104	104
6.	20	207	10,300	50	50
STATE	467	45,720	15,349,000	336	340
17 to 26 Year Age Group					
Dist. 1.	60	2,923	688,100	235	280
2.	190	20,791	5,881,000	283	283
3.	531	62,952	27,476,600	436	435
4.	490	37,723	16,944,600	449	444
5.	25	958	121,400	127	132
6.	17	84	5,200	62	64
STATE	1,313	125,431	51,116,900	408	399
27 Years or Older Age Group					
Dist. 1.	26	1,792	557,500	311	351
2.	57	4,420	1,298,100	294	299
3.	128	13,303	6,164,300	463	461
4.	133	8,790	4,636,300	527	527
5.	26	193	25,300	131	130
6.	14	80	11,400	142	130
STATE	384	28,578	12,692,900	444	431
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	143	9,206	2,092,900	227	239
2.	330	32,619	9,039,600	277	275
3.	976	109,656	44,861,800	409	403
4.	820	56,123	24,214,900	431	412
5.	94	1,338	157,600	118	125
6.	69	477	29,500	62	62
STATE	2,432	209,419	80,396,300	384	370

Table 11. YELLOW NEWTOWN APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	1	10	700	70	70
2.	4	8	-	-	-
3.	8	1,527	-	-	-
4.	14	1,016	800	1	1
5.	13	74	-	-	-
6.	8	29	200	7	8
STATE	48	2,664	1,700	1	-
6 to 9 Year Age Group					
Dist. 1.	-	-	-	-	-
2.	-	-	-	-	-
3.	4	382	2,800	7	7
4.	3	150	16,500	110	110
5.	7	10	900	90	95
6.	18	108	4,300	40	41
STATE	32	650	24,500	38	77
10 to 16 Year Age Group					
Dist. 1.	13	65	10,300	158	126
2.	1	8	400	50	50
3.	32	1,567	302,800	193	193
4.	9	164	36,300	221	243
5.	22	3,298	218,300	66	69
6.	19	107	6,300	59	75
STATE	96	5,209	574,400	110	149
17 to 26 Year Age Group					
Dist. 1.	24	1,256	303,200	241	200
2.	26	3,162	1,042,100	330	318
3.	247	15,950	5,036,200	316	318
4.	151	7,322	2,528,700	345	342
5.	96	21,087	3,128,900	148	141
6.	19	88	6,600	75	85
STATE	563	48,865	12,045,700	247	233
27 Years or Older Age Group					
Dist. 1.	7	44	12,400	282	294
2.	11	184	60,200	327	302
3.	118	9,872	3,584,400	363	352
4.	45	1,575	618,200	393	387
5.	27	1,519	284,500	187	186
6.	36	135	20,900	155	150
STATE	244	13,329	4,580,600	344	340
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	45	1,375	326,600	238	202
2.	42	3,362	1,102,700	328	315
3.	409	29,298	8,926,200	305	283
4.	222	10,227	3,200,500	313	303
5.	165	25,988	3,632,600	140	130
6.	100	467	38,300	82	88
STATE	983	70,717	17,226,900	244	226

Table 12. STAYMAN APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	1	1	-	-	-
2.	2	2	-	-	-
3.	-	-	-	-	-
4.	5	56	-	-	-
5.	4	16	300	19	19
6.	3	22	300	14	21
STATE	15	97	600	6	10
6 to 9 Year Age Group					
Dist. 1.	-	-	-	-	-
2.	-	-	-	-	-
3.	1	27	5,200	193	193
4.	4	86	10,600	123	182
5.	2	5	300	60	54
6.	6	19	1,500	79	77
STATE	13	137	17,600	128	180
10 to 16 Year Age Group					
Dist. 1.	3	13	2,400	185	188
2.	10	84	17,800	212	197
3.	30	611	189,700	310	311
4.	28	2,809	959,400	342	309
5.	2	14	1,000	71	71
6.	8	18	1,700	94	96
STATE	81	3,549	1,172,000	330	306
17 to 26 Year Age Group					
Dist. 1.	4	30	10,600	353	174
2.	17	943	324,500	344	341
3.	126	3,798	1,375,200	362	366
4.	356	24,665	9,349,300	379	359
5.	6	90	13,300	148	138
6.	7	28	3,100	111	109
STATE	516	29,554	11,076,000	375	358
27 Years or Older Age Group					
Dist. 1.	-	-	-	-	-
2.	10	824	362,100	439	439
3.	56	1,470	581,600	396	398
4.	90	4,817	2,080,700	432	461
5.	4	10	2,300	230	221
6.	8	17	3,000	176	137
STATE	168	7,138	3,029,700	424	449
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	8	44	13,000	295	174
2.	39	1,853	704,400	380	375
3.	213	5,906	2,151,700	364	358
4.	483	32,433	12,400,000	382	372
5.	18	135	17,200	127	110
6.	32	104	9,600	92	95
STATE	793	40,475	15,295,900	378	368

Table 13. McINTOSH APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

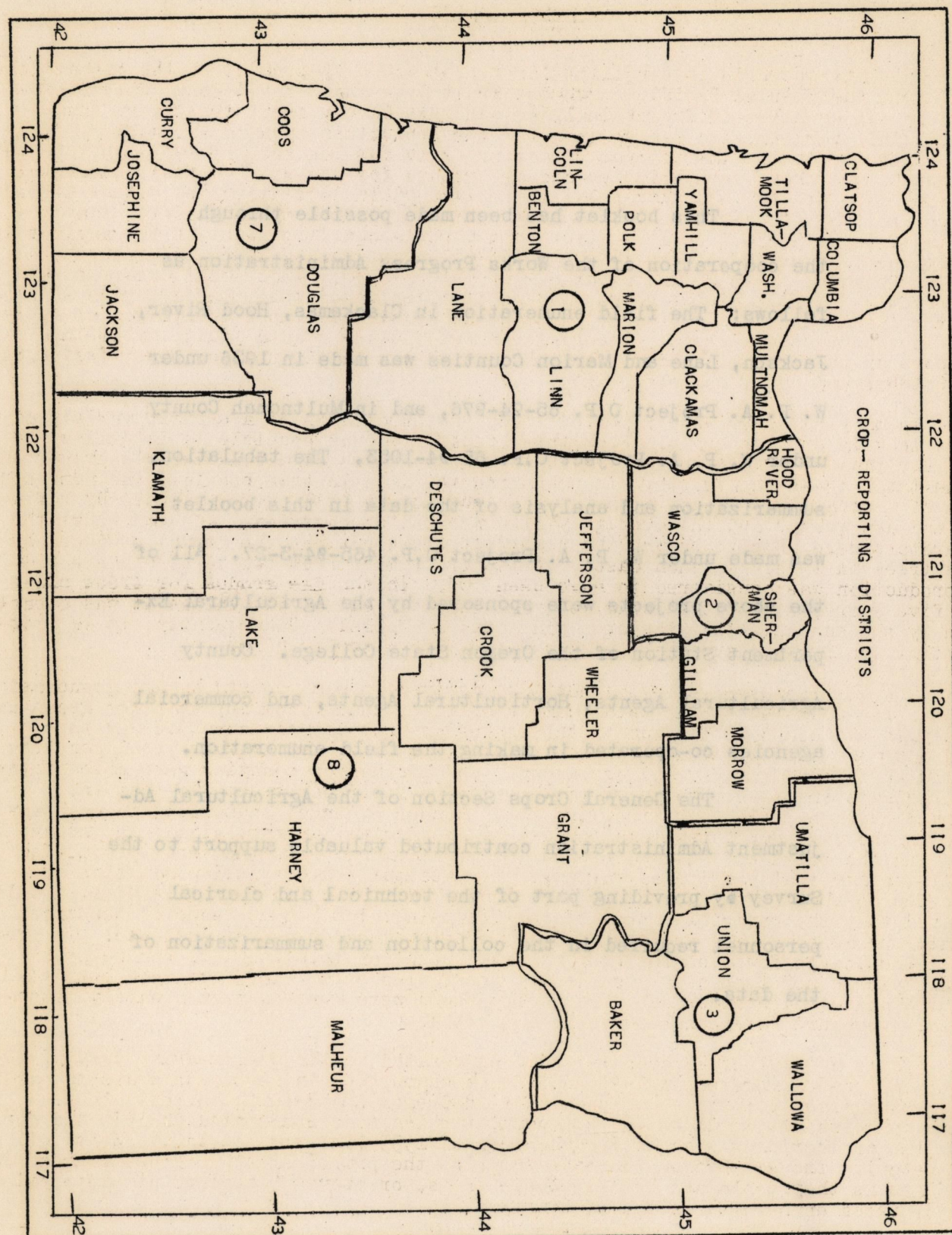
FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	3	7	-	-	-
2.	17	467	6,700	14	14
3.	1	30	-	-	-
4.	32	1,969	7,000	4	3
5.	2	6	-	-	-
6.	7	12	-	-	-
STATE	62	2,491	13,700	5	4
6 to 9 Year Age Group					
Dist. 1.	4	7	600	86	84
2.	20	1,302	128,800	99	99
3.	2	14	700	50	50
4.	8	1,046	59,600	57	30
5.	1	200	18,000	90	90
6.	1	8	1,800	225	225
STATE	36	2,577	209,500	81	53
10 to 16 Year Age Group					
Dist. 1.	2	3	300	100	100
2.	21	1,778	331,900	187	187
3.	3	375	70,900	189	189
4.	13	584	121,700	208	199
5.	2	4	700	175	175
6.	2	4	300	75	75
STATE	43	2,748	525,800	191	190
17 to 26 Year Age Group					
Dist. 1.	5	14	3,100	221	221
2.	24	2,398	534,800	223	223
3.	6	221	55,100	249	249
4.	11	212	108,700	513	703
5.	2	3	400	133	146
6.	6	17	1,300	76	70
STATE	54	2,865	703,400	246	298
27 Years or Older Age Group					
Dist. 1.	1	2	400	200	200
2.	6	228	63,500	279	283
3.	1	2	-	-	-
4.	9	172	65,000	378	497
5.	3	4	1,200	300	300
6.	11	48	5,800	121	110
STATE	31	456	135,900	298	366
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	15	33	4,400	133	130
2.	88	6,173	1,065,700	173	172
3.	13	642	126,700	197	81
4.	73	3,983	362,000	91	114
5.	10	217	20,300	94	95
6.	27	89	9,200	103	93
STATE	226	11,137	1,588,300	143	135

Table 14. MISCELLANEOUS APPLES - WASHINGTON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

FRUIT DISTRICTS	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Dist. 1.	33	83	1,000	12	15
2.	20	192	7,300	38	38
3.	23	1,583	4,700	3	3
4.	57	3,451	71,700	21	21
5.	94	1,600	8,800	6	5
6.	122	1,513	23,700	16	18
STATE	349	8,422	117,200	14	14
6 to 9 Year Age Group					
Dist. 1.	9	39	2,900	74	61
2.	22	1,765	117,600	67	67
3.	29	5,960	575,500	97	97
4.	34	3,329	397,500	119	122
5.	105	732	73,800	101	100
6.	237	3,389	152,800	45	50
STATE	436	15,214	1,320,100	87	91
10 to 16 Year Age Group					
Dist. 1.	62	869	80,500	93	90
2.	69	3,538	716,400	202	201
3.	116	5,815	1,079,000	186	213
4.	60	3,698	861,100	233	227
5.	332	8,619	753,000	87	87
6.	645	11,590	894,400	77	78
STATE	1,284	34,129	4,384,400	128	143
17 to 26 Year Age Group					
Dist. 1.	77	1,600	181,000	113	112
2.	185	10,223	2,937,900	287	286
3.	255	12,449	5,124,700	412	413
4.	374	20,179	7,032,500	349	344
5.	474	19,603	2,399,500	122	118
6.	882	21,829	2,256,700	103	103
STATE	2,247	85,883	19,932,300	232	234
27 Years or Older Age Group					
Dist. 1.	63	1,812	208,800	115	116
2.	55	2,386	646,300	271	271
3.	102	3,695	1,689,200	457	413
4.	112	6,421	2,618,100	408	408
5.	643	19,922	2,720,000	137	136
6.	1,699	51,254	5,017,900	98	99
STATE	2,674	85,490	12,900,300	151	165
Total - All Ages (1 Year or Less Excluded)					
Dist. 1.	244	4,403	474,200	108	104
2.	351	18,104	4,425,500	244	243
3.	525	29,502	8,473,100	287	282
4.	637	37,078	10,980,900	296	288
5.	1,648	50,476	5,955,100	118	113
6.	3,585	89,575	8,345,500	93	93
STATE	6,990	229,138	38,654,300	169	175

This booklet has been made possible through the cooperation of the Works Progress Administration as follows: The field enumeration in Clackamas, Hood River, Jackson, Lane and Marion Counties was made in 1936 under W. P. A. Project O.P. 65-94-976, and in Multnomah County under W. P. A. Project O.P. 65-94-1053. The tabulation, summarization and analysis of the data in this booklet was made under W. P. A. Project O.P. 465-94-3-27. All of the above projects were sponsored by the Agricultural Experiment Station of the Oregon State College. County Agricultural Agents, Horticultural Agents, and commercial agencies co-operated in making the field enumeration.

The General Crops Section of the Agricultural Adjustment Administration contributed valuable support to the Survey by providing part of the technical and clerical personnel required in the collection and summarization of the data.



INTRODUCTION

OREGON APPLES

The data shown in this booklet for Apples are a by-product of the results obtained from the Special Pacific Northwest Fruit Tree and Berry Acreage Survey conducted in six counties of Oregon in 1936. In this Survey fruit trees were enumerated by kind, variety, and age groups, and the production by kind and variety for 1935. In this booklet the average yields per tree for the crop of 1935, as reported by growers, are shown for varieties and age groups for the six counties enumerated. Since the data are for one year only, the entire yield level might be either higher or lower for any other year. For example - It is reported to this office that the 1935 total Apple packout in Hood River County was about 79 percent of the packout in 1937, 60 percent of 1936, 67 percent of 1934, 156 percent of 1933, 65 percent of 1932, 129 percent of 1931, and about 49 percent of 1930. Individual orchards may vary greatly from the yields shown, though it is believed that the data give a rather reliable indication of the effect of increasing age upon the yields of Apple trees in the State of Oregon. The yields shown include graded fruit, culls, and that part of the crop which remained unharvested due to the unprecedented freeze in late October and early November, 1935.

In many cases growers reported trees and production of a certain variety of Apples in only one age group. From these reports it was possible to determine the yield per tree by age groups and varieties on the basis of a considerable proportion of the total trees enumerated. In preparing the data in this booklet, the number of trees of a single age group, with their production in 1935, were relisted by varieties and age groups and the average yields derived by counties. In some cases the enumerators were able to secure the number of trees but not the amount produced by those trees in 1935. In such cases, if the trees were from two to five years old, the production was considered to have been "0". In the age groups for trees older than five years, a report showing no production was edited out unless it was clearly shown by the schedule that the crop had actually failed. Consequently, it is probable that the derived average yields shown may be a trifle high.

The straight average yield per tree derived in each county by age group and variety, was weighted by the total number of trees enumerated for that age group and variety in the county. The sum of the extensions for the six counties was then divided by the sum of the weights to arrive at the weighted average yield per tree for the particular variety and age group. In this manner counties were given their proportionate importance relative to the average yield per tree. To test the weighted average yields per tree, the total number of trees enumerated in each age group in the six counties was multiplied by the derived average yields in the age group and the total accumulated production was compared with the total production enumerated for that particular variety. The accumulated computed production by varieties is about 3 percent above the enumerated production for all Apples. It is believed that the enumerated production is somewhat low because some of the trees actually produced a crop but the amount was not indicated on the schedule. In preparing the Charts found on the even numbered pages of this booklet, the weighted average yields per tree were used, while the Tables below the Chart show both the weighted and straight average. The yields shown were derived from a purely mathematical procedure based on reports from growers.

While a total of 18 counties were enumerated in the Oregon Fruit Survey, 12 of the 18 were enumerated in 1935 and 6 were enumerated in 1936. In order to provide a comparison between reported yields in Oregon and Washington, only those Oregon counties are included in this booklet which were enumerated in 1936 and for which the production was shown for the crop of 1935 (the same as in the State of Washington). The six Oregon counties comprise the principal Apple growing areas in the State as they contained 575,115 Apple trees, or about 59 percent of the total of 979,537 trees enumerated in the 18 counties.

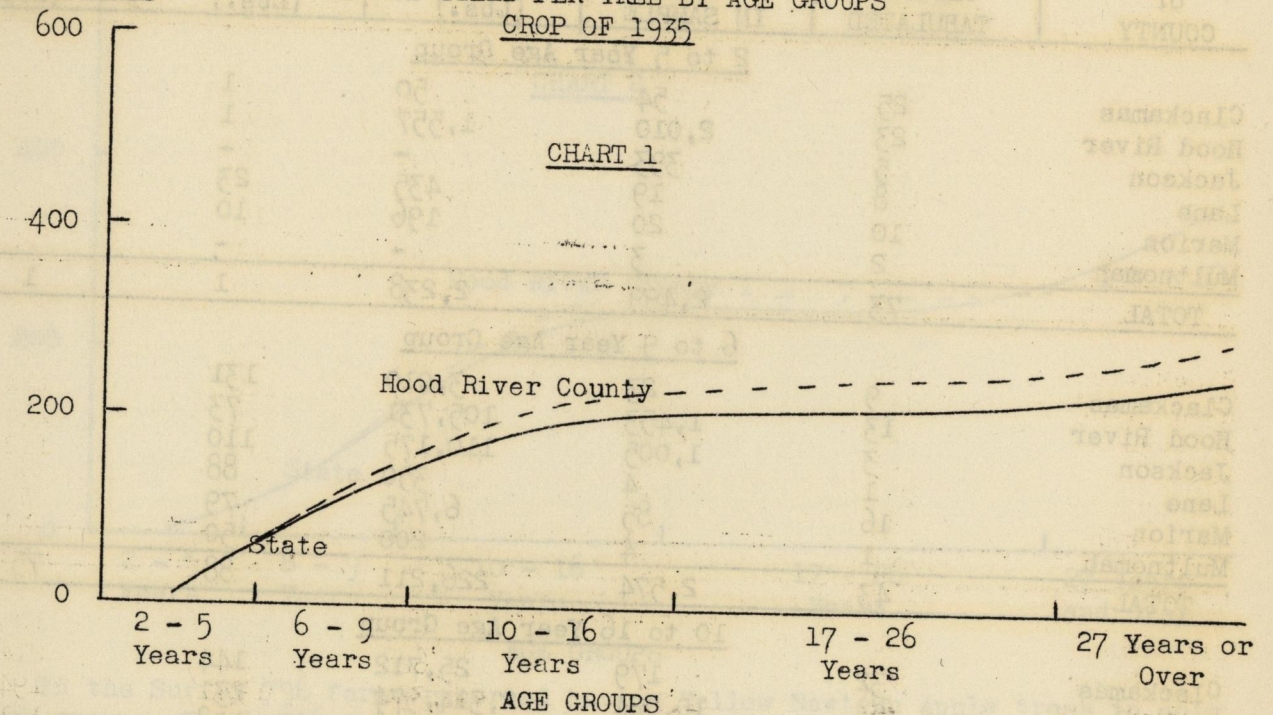
G. J. BORUM, Agricultural Statistician
In Charge
PAUL C. NEWMAN, Associate Statistician
C. J. HELTEMES, Assistant Statistician

Table 1. TOTAL APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

NAME of COUNTY	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Clackamas	282	1,212	8,782	7	8
Hood River	147	8,120	159,480	20	15
Jackson	44	893	1,758	2	2
Lane	101	363	3,375	9	9
Marion	247	1,670	18,902	11	11
Multnomah	43	252	2,846	11	11
TOTAL	864	12,510	195,143	16	14
6 to 9 Year Age Group					
Clackamas	188	1,018	88,907	87	88
Hood River	118	7,094	849,631	120	111
Jackson	22	1,392	175,347	126	134
Lane	98	612	68,385	112	112
Marion	279	2,097	154,229	74	75
Multnomah	51	465	40,377	87	84
TOTAL	756	12,678	1,376,876	109	109
10 to 16 Year Age Group					
Clackamas	524	5,947	633,988	107	105
Hood River	345	26,161	5,486,628	210	214
Jackson	48	1,714	338,330	197	194
Lane	125	1,422	170,534	120	121
Marion	548	8,006	818,117	102	102
Multnomah	301	3,686	456,275	124	129
TOTAL	1,891	46,936	7,903,872	168	188
17 to 26 Year Age Group					
Clackamas	906	17,009	1,755,500	103	106
Hood River	475	53,266	12,795,608	240	243
Jackson	219	23,484	5,815,604	248	246
Lane	223	9,380	1,318,005	141	136
Marion	500	8,267	908,074	110	109
Multnomah	573	7,221	799,123	111	111
TOTAL	2,896	118,627	23,391,914	197	208
27 Years or Older Age Group					
Clackamas	1,286	25,643	2,831,155	110	110
Hood River	265	27,631	7,902,250	286	284
Jackson	161	18,467	7,969,866	432	438
Lane	218	2,110	330,990	157	156
Marion	445	10,104	1,392,088	138	133
Multnomah	598	9,107	1,050,823	115	116
TOTAL	2,973	93,062	21,477,172	231	250
Total - All Ages (1 Year or Less Excluded)					
Clackamas	3,186	50,829	5,318,332	105	105
Hood River	1,350	122,272	27,193,597	222	191
Jackson	494	45,950	14,300,905	311	324
Lane	765	13,887	1,891,289	136	134
Marion	2,019	30,144	3,291,410	109	106
Multnomah	1,566	20,731	2,349,444	113	114
TOTAL	9,380	283,813	54,344,977	191	186

Pounds Per Tree
For Specified
Age Groups

TOTAL APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



The data presented for Total Apples on Page 3 is a combination of the varietal data found on Pages 5, 7, 9, 11 and 12. While only 5,688 Apple growing farms were enumerated in the Survey, many reported more than one variety and the sum of the varietal reports exceeds the total number of farms reporting Apple trees. The sum of the varietal reports represent 283,813 trees over 1 year of age, or about 49 percent of the total of 575,115 Apple trees of all ages enumerated in the six counties.

The weighted average yield per tree in 1935 in the 2 to 5 year group, according to 864 reports representing 12,465 trees, was 14 pounds. In the 6 to 9 year group, 12,678 trees averaged 109 pounds; in the 10 to 16 year group 46,936 trees averaged 188 pounds; in the 17 to 26 year group, 118,627 trees averaged 208 pounds, and in the 27 year or older group 93,062 trees yielded an average of 250 pounds, or about 5 bushels each.

Table 2. TOTAL APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

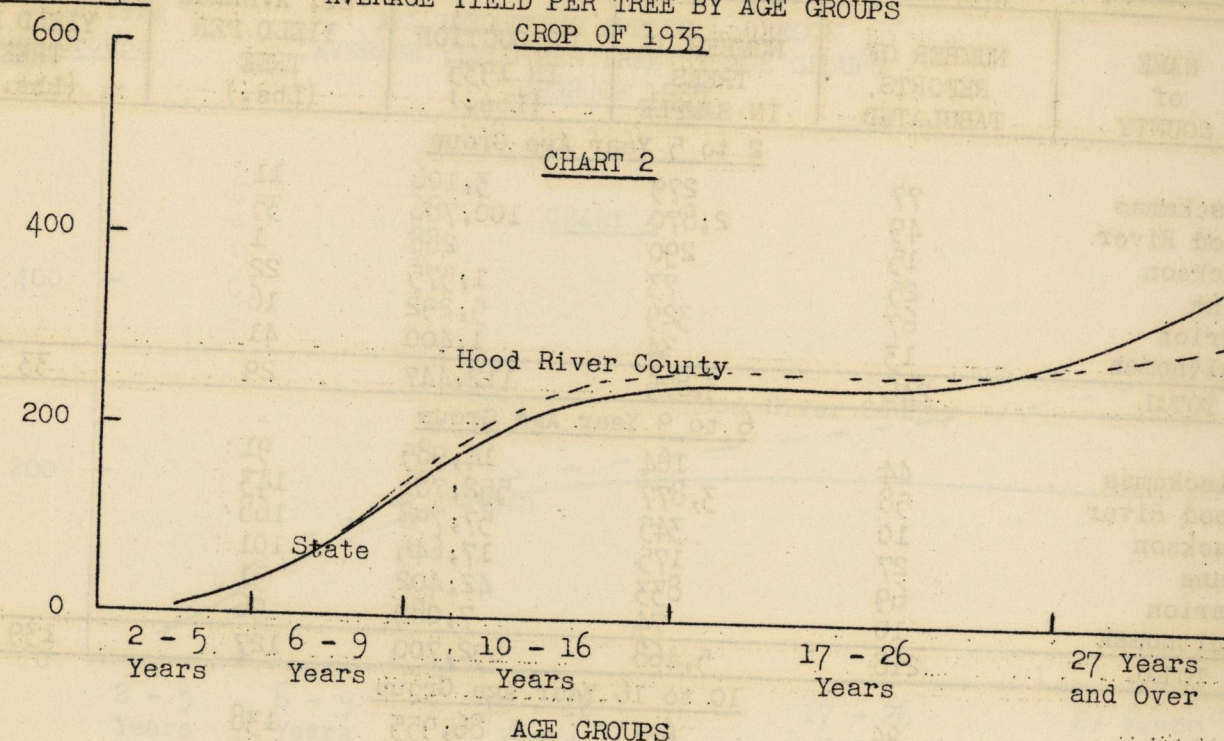
NAME of COUNTY	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
Yield in Pounds					
Clackamas	8	88	105	106	110
Hood River	15	111	214	243	284
Jackson	2	134	194	246	438
Lane	9	112	121	136	156
Marion	11	75	102	109	133
Multnomah	11	84	129	111	116
WEIGHTED AVG.	14	109	188	208	250
STRAIGHT AVG.	16	109	168	197	231

Table 3. YELLOW NEWTOWN APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

NAME of COUNTY	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Clackamas	25	54	50	1	
Hood River	23	2,010	1,557	1	
Jackson	5	393	-	-	
Lane	8	19	435	23	
Marion	10	20	196	10	
Multnomah	2	3	-	-	
TOTAL	73	2,499	2,238	1	1
6 to 9 Year Age Group					
Clackamas	9	23	3,010	131	
Hood River	13	1,453	105,731	73	
Jackson	3	1,005	110,175	110	
Lane	1	4	350	88	
Marion	16	85	6,745	79	
Multnomah	1	4	200	50	
TOTAL	43	2,574	226,211	88	75
10 to 16 Year Age Group					
Clackamas	32	179	25,712	144	
Hood River	54	10,024	2,314,974	231	
Jackson	15	1,291	255,448	198	
Lane	5	30	2,475	82	
Marion	20	91	10,048	110	
Multnomah	20	531	30,715	58	
TOTAL	146	12,146	2,639,372	217	226
17 to 26 Year Age Group					
Clackamas	57	896	131,578	147	
Hood River	82	25,193	6,366,616	253	
Jackson	101	17,798	4,521,518	254	
Lane	17	1,845	217,030	118	
Marion	19	112	12,784	114	
Multnomah	37	317	36,416	115	
TOTAL	313	46,161	11,285,942	244	246
27 Years or Older Age Group					
Clackamas	63	334	44,534	133	
Hood River	59	14,682	4,362,697	297	
Jackson	56	15,262	7,242,396	475	
Lane	11	58	6,350	109	
Marion	12	121	23,880	197	
Multnomah	20	194	22,334	115	
TOTAL	221	30,651	11,702,191	382	368
Total - All Ages (1 Year or Less Excluded)					
Clackamas	186	1,486	204,884	138	
Hood River	231	53,362	13,151,575	246	
Jackson	180	35,749	12,129,537	339	
Lane	42	1,956	226,640	116	
Marion	77	429	53,653	125	
Multnomah	80	1,049	89,665	85	
TOTAL	796	94,031	25,855,954	275	238

Pounds Per Tree
For Specified
Age Groups

YELLOW NEWTOWN APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



In the Survey 796 farms reported having Yellow Newtown Apple trees in only one age group. These 796 farms represented 94,031 Newtown trees over one year old, or about 40 percent of the total of 237,846 trees of all ages enumerated. The 1935 yields started with a weighted average production of 1 pound per tree in the 2 to 5 year group, according to reports from 73 farms representing 2,499 trees, and increased to 75 pounds per tree in the 6 to 9 year group. In the 10 to 16 year group, 146 farms representing 12,146 trees reported an average of 226 pounds per tree, while 313 farms representing 46,161 trees in the 17 to 26 year group reported an average of 246 pounds, and 221 farms representing 30,651 trees 27 years old or older, reported an average yield of 368 pounds, or almost 8 bushels per tree.

Table 4. YELLOW NEWTOWN APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

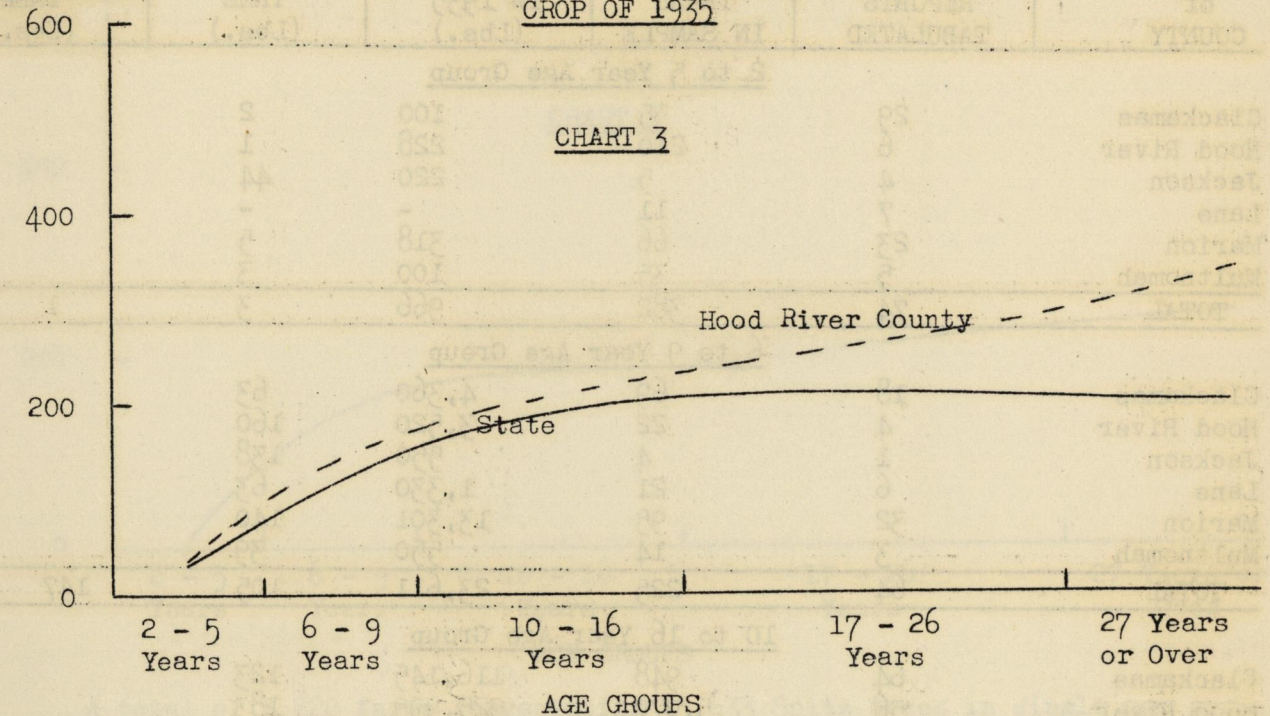
NAME of COUNTY	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
Yield in Pounds					
Clackamas	1	131	144	147	133
Hood River	1	73	231	253	297
Jackson	-	110	198	254	475
Lane	23	88	82	118	109
Marion	10	79	110	114	197
Multnomah	-	50	58	115	115
STRAIGHT AVG.	1	88	217	244	382
WEIGHTED AVG.	1	75	226	246	368

Table 5. DELICIOUS (ALL) APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

NAME of COUNTY	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
2 to 5 Year Age Group					
Clackamas	77	279	3,106	11	
Hood River	49	2,870	100,786	35	
Jackson	15	290	288	1	
Lane	25	73	1,575	22	
Marion	67	329	5,292	16	
Multnomah	13	34	1,400	41	
TOTAL	246	3,875	112,447	29	33
6 to 9 Year Age Group					
Clackamas	44	164	14,985	91	
Hood River	58	3,877	552,781	143	
Jackson	10	345	57,798	168	
Lane	27	175	17,645	101	
Marion	69	833	42,402	51	
Multnomah	10	74	7,089	96	
TOTAL	218	5,468	692,700	127	139
10 to 16 Year Age Group					
Clackamas	86	631	86,955	138	
Hood River	66	4,799	984,363	205	
Jackson	11	141	27,480	195	
Lane	13	26	4,086	157	
Marion	109	1,182	128,259	109	
Multnomah	48	427	41,374	97	
TOTAL	333	7,206	1,272,517	177	189
17 to 26 Year Age Group					
Clackamas	96	550	76,704	139	
Hood River	25	1,783	467,850	262	
Jackson	14	1,846	352,098	191	
Lane	17	511	25,545	50	
Marion	61	605	82,351	136	
Multnomah	84	588	58,095	99	
TOTAL	297	5,883	1,062,643	181	207
27 Years or Older Age Group					
Clackamas	90	516	70,338	136	
Hood River	10	177	60,629	343	
Jackson	24	650	137,766	212	
Lane	8	13	1,702	131	
Marion	35	198	25,398	128	
Multnomah	83	725	80,062	110	
TOTAL	250	2,279	375,895	165	201
Total - All Ages (1 Year or Less Excluded)					
Clackamas	393	2,140	252,088	118	
Hood River	208	13,506	2,166,409	160	
Jackson	74	3,272	575,430	176	
Lane	90	798	50,553	63	
Marion	341	3,147	283,702	90	
Multnomah	238	1,848	188,020	102	
TOTAL	1,344	24,711	3,516,202	142	142

Pounds Per Tree
For Specified
Age Groups

ALL DELICIOUS APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



Out of a total of 74,275 Delicious Apple trees of all ages enumerated in the six counties, 24,711 trees, or about 33 percent, were reported in single age groups on 1,344 farms.

The 1935 yield per tree reported by 246 growers having 3,875 trees in the 2 to 5 year age group averaged 33 pounds. In the 6 to 9 year group 5,468 trees on 218 farms averaged 139 pounds; 7,206 trees in the 10 to 16 year group on 333 farms averaged 189 pounds; 5,883 trees in the 17 to 26 year group on 297 farms averaged 207 pounds, and 2,279 trees in the 27 year or older group on 250 farms yielded an average of 201 pounds.

Table 6. ALL DELICIOUS APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

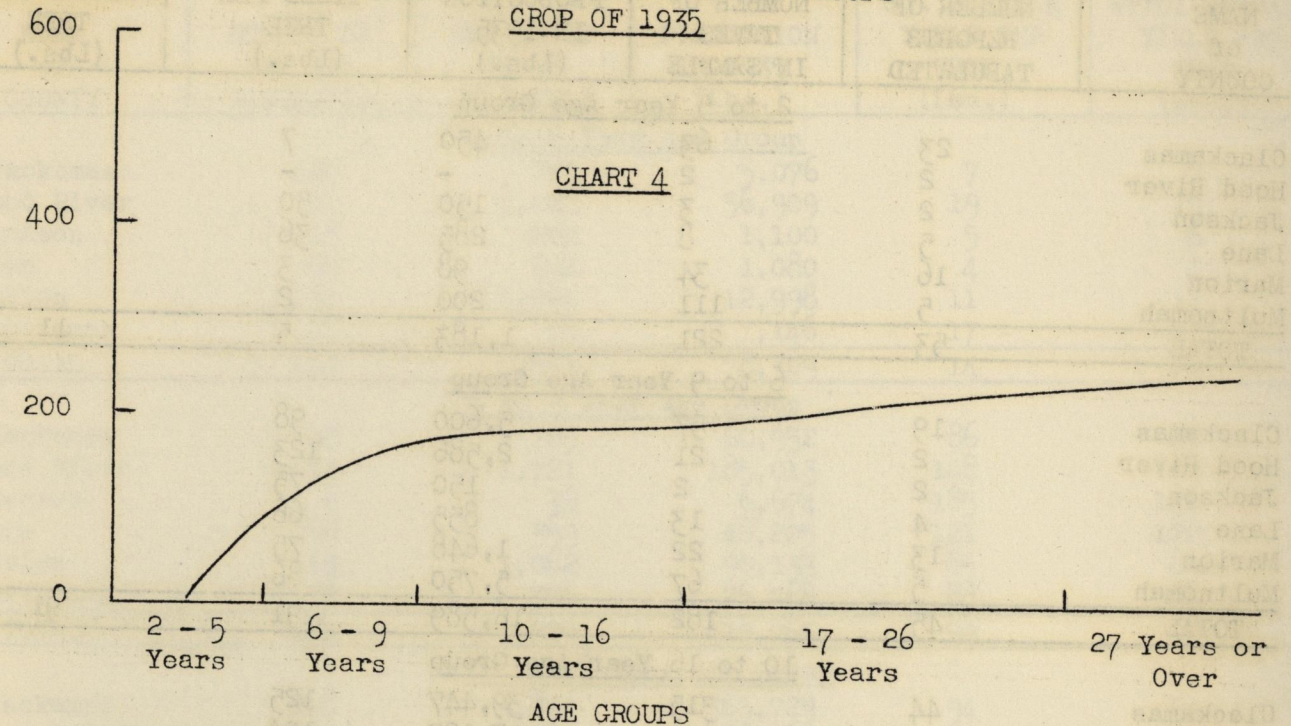
NAME of COUNTY	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
Yield in Pounds					
Clackamas	11	91	138	139	136
Hood River	35	143	205	262	343
Jackson	1	168	195	191	212
Lane	22	101	157	50	131
Marion	16	51	109	136	128
Multnomah	41	96	97	99	110
STRAIGHT AVG.	29	127	177	181	165
WEIGHTED AVG.	33	139	189	207	201

Table 7. SPITZ APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

NAME of COUNTY	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
<u>2 to 5 Year Age Group</u>					
Clackamas	29	55	100	2	
Hood River	6	210	228	1	
Jackson	4	5	220	44	
Lane	7	11	-	-	
Marion	23	66	318	5	
Multnomah	5	35	100	3	
TOTAL	74	382	966	3	1
<u>6 to 9 Year Age Group</u>					
Clackamas	18	69	4,360	63	
Hood River	4	22	3,520	160	
Jackson	1	4	550	138	
Lane	6	21	1,330	63	
Marion	32	95	13,301	140	
Multnomah	3	14	550	39	
TOTAL	64	225	23,611	105	147
<u>10 to 16 Year Age Group</u>					
Clackamas	64	948	116,145	123	
Hood River	56	5,070	925,999	183	
Jackson	7	118	16,070	136	
Lane	14	270	34,505	128	
Marion	72	413	60,376	146	
Multnomah	42	785	104,359	133	
TOTAL	255	7,604	1,257,454	165	170
<u>17 to 26 Year Age Group</u>					
Clackamas	151	2,857	525,478	184	
Hood River	111	14,827	3,330,335	225	
Jackson	23	1,753	557,064	318	
Lane	39	3,009	464,102	154	
Marion	59	825	115,335	140	
Multnomah	23	847	101,092	119	
TOTAL	406	24,118	5,093,406	211	213
<u>27 Years or Older Age Group</u>					
Clackamas	153	1,450	232,820	161	
Hood River	59	9,158	2,444,742	267	
Jackson	29	863	255,624	296	
Lane	31	186	27,218	146	
Marion	42	538	87,480	163	
Multnomah	107	1,109	136,035	123	
TOTAL	421	13,304	3,183,919	239	246
<u>Total - All Ages (1 Year or Less Excluded)</u>					
Clackamas	415	5,379	878,903	163	
Hood River	236	29,287	6,704,824	229	
Jackson	64	2,743	829,528	302	
Lane	97	3,497	527,155	151	
Marion	228	1,937	276,810	143	
Multnomah	180	2,790	342,136	123	
TOTAL	1,220	45,633	9,559,356	209	210

Pounds Per Tree
For Specified
Age Groups

SPITZ APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS
CROP OF 1935



A total of 1,220 farms representing 45,633 Spitz trees in single age groups, above one year of age, were reported in the Survey. These 45,633 trees represent about 62 percent of the total of 73,255 Spitz trees of all ages enumerated in the six counties.

The weighted average yield per tree in 1935 in the 2 to 5 year group was 1 pound, according to 74 growers who reported 382 trees in that group. In the 6 to 9 year group 225 trees on 64 farms averaged 147 pounds; in the 10 to 16 year group 7,604 trees on 255 farms averaged 170 pounds; in the 17 to 26 year group 24,118 trees on 406 farms averaged 213 pounds, and in the 27 year or older group 13,304 trees on 421 farms averaged 246 pounds.

Table 8. SPITZ APPLES - OREGON
AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

NAME of COUNTY	Age Groups				
	2 to 5 Years	6 to 9 Years	10 to 16 Years	17 to 26 Years	27 Years and Over
<u>Yield in Pounds</u>					
Clackamas	2	63	123	184	161
Hood River	1	160	183	225	267
Jackson	44	138	136	318	296
Lane	-	63	128	154	146
Marion	5	140	146	140	163
Multnomah	3	39	133	119	123
STRAIGHT AVG.	3	105	165	211	239
WEIGHTED AVG.	1	147	170	213	246

JONATHAN APPLES - OREGON

Table 9. AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

NAME of COUNTY	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
<u>2 to 5 Year Age Group</u>					
Clackamas	23	63	450	7	
Hood River	2	2	-	-	
Jackson	2	3	150	50	
Lane	5	8	285	36	
Marion	16	34	98	3	
Multnomah	5	111	200	2	
TOTAL	53	221	1,183	5	11
<u>6 to 9 Year Age Group</u>					
Clackamas	19	57	5,600	98	
Hood River	2	21	2,586	123	
Jackson	2	2	150	75	
Lane	4	13	855	66	
Marion	13	22	1,648	75	
Multnomah	5	67	5,750	86	
TOTAL	45	182	16,589	91	91
<u>10 to 16 Year Age Group</u>					
Clackamas	44	315	39,447	125	
Hood River	15	479	93,127	194	
Jackson	5	119	31,660	266	
Lane	10	211	20,792	99	
Marion	39	440	23,294	53	
Multnomah	27	254	30,402	120	
TOTAL	140	1,818	238,722	131	125
<u>17 to 26 Year Age Group</u>					
Clackamas	80	682	97,761	143	
Hood River	28	1,283	259,928	203	
Jackson	23	990	202,604	205	
Lane	21	2,752	438,633	159	
Marion	37	282	26,352	93	
Multnomah	43	407	50,734	125	
TOTAL	232	6,396	1,076,012	168	169
<u>27 Years or Older Age Group</u>					
Clackamas	79	643	122,208	190	
Hood River	18	829	164,814	199	
Jackson	12	341	74,490	218	
Lane	20	149	19,111	128	
Marion	17	136	13,190	97	
Multnomah	21	357	47,820	134	
TOTAL	167	2,455	441,633	180	179
<u>Total - All Ages (1 Year or Less Excluded)</u>					
Clackamas	245	1,760	265,466	151	
Hood River	65	2,614	520,455	199	
Jackson	44	1,455	309,054	212	
Lane	60	3,133	479,676	153	
Marion	122	914	64,582	71	
Multnomah	101	1,196	134,906	113	
TOTAL	637	11,072	1,774,139	160	160

*MISCELLANEOUS APPLES - OREGON

Table 10. AVERAGE YIELD PER TREE BY AGE GROUPS - CROP OF 1935

NAME of COUNTY	NUMBER OF REPORTS TABULATED	NUMBER OF TREES IN SAMPLE	PRODUCTION IN 1935 (Lbs.)	ST. AVERAGE YIELD PER TREE (Lbs.)	WT'D. AVERAGE YIELD PER TREE (Lbs.)
<u>2 to 5 Year Age Group</u>					
Clackamas	128	761	5,076	7	7
Hood River	67	3,028	56,909	19	19
Jackson	18	202	1,100	5	6
Lane	56	252	1,080	4	4
Marion	131	1,221	12,998	11	11
Multnomah	18	69	1,146	17	13
TOTAL	418	5,533	78,309	14	16
<u>6 to 9 Year Age Group</u>					
Clackamas	98	705	60,952	86	87
Hood River	41	1,721	185,013	108	100
Jackson	6	36	6,674	185	146
Lane	60	399	48,205	121	122
Marion	149	1,062	90,133	85	85
Multnomah	32	306	26,788	88	86
TOTAL	386	4,229	417,765	99	98
<u>10 to 16 Year Age Group</u>					
Clackamas	298	3,874	365,729	94	94
Hood River	154	5,789	1,168,165	202	204
Jackson	10	45	7,672	170	158
Lane	83	885	108,676	123	123
Marion	308	5,880	596,140	101	101
Multnomah	164	1,689	249,425	148	156
TOTAL	1,017	18,162	2,495,807	137	151
<u>17 to 26 Year Age Group</u>					
Clackamas	522	12,024	923,979	77	79
Hood River	229	10,180	2,370,879	233	227
Jackson	58	1,097	182,320	166	167
Lane	129	1,263	172,695	137	131
Marion	324	6,443	671,252	104	104
Multnomah	386	5,062	552,786	109	110
TOTAL	1,648	36,069	4,873,911	135	145
<u>27 Years or Older Age Group</u>					
Clackamas	901	22,700	2,361,255	104	103
Hood River	119	2,785	869,368	312	265
Jackson	40	1,351	259,590	192	191
Lane	148	1,704	276,609	162	161
Marion	339	9,111	1,242,140	136	132
Multnomah	367	6,722	764,572	114	114
TOTAL	1,914	44,373	5,773,534	130	133
<u>Total - All Ages (1 Year or Less Excluded)</u>					
Clackamas	1,947	40,064	3,716,991	93	93
Hood River	610	23,503	4,650,334	198	163
Jackson	132	2,731	457,356	167	163
Lane	476	4,503	607,265	135	136
Marion	1,251	23,717	2,612,663	110	106
Multnomah	967	13,848	1,594,717	115	116
TOTAL	5,383	108,366	13,639,326	126	126

* Combined data for Ortley, Arkansas Black, Winter Banana, Gravenstein, and others.