

PART VI

PRODUCTION, MARKETING AND INCOME

Value of Farm Marketings

Pacific County farms marketed agricultural products worth \$1,899,368 in 1964 compared with \$1,905,800 in 1959 and \$1,410,932 in 1954. Livestock and livestock products, chiefly whole milk and beef animals, increased in importance and represented 63 percent of total farm marketings in 1964 compared with 53 percent in 1954. The county ranked 31st among Washington's thirty-nine counties in farm marketings in 1964, but was 19th in value of dairy products sold. Production of whole milk in 1964 was 25 percent above 1949, with marketings up from 30 percent of the total in 1959 and 1954 to 36 percent in 1964.

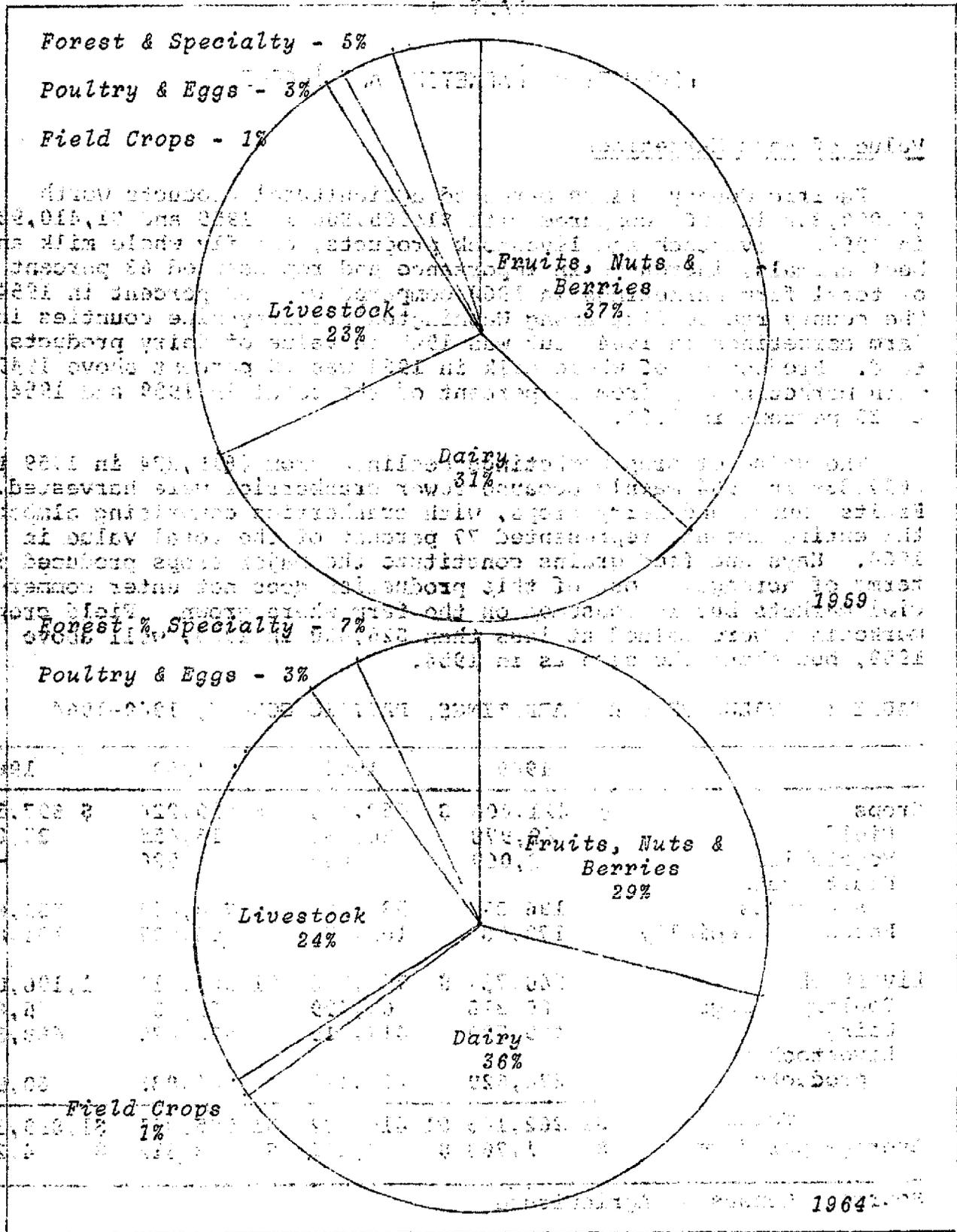
The value of crop marketings declined from \$819,224 in 1959 to \$697,339 in 1964 mainly because fewer cranberries were harvested. Fruits, nuts, and berry crops, with cranberries comprising almost the entire amount, represented 77 percent of the total value in 1964. Hays and feed grains constitute the major crops produced in terms of acreage. Most of this production does not enter commercial markets but is consumed on the farm where grown. Field crop marketings were valued at less than \$26,000 in 1964, well above 1959, but about the same as in 1954.

TABLE 1: VALUE OF FARM MARKETINGS, PACIFIC COUNTY, 1949-1964

	1949	1954	1959	1964
Crops	\$ 421,406	\$ 668,196	\$ 819,224	\$ 697,339
Field	49,978	26,835	16,455	25,828
Vegetables	2,069	800	520	-
Fruit, Nuts & Berries	196,372	539,086	708,442	539,617
Forest & Specialty	172,987	101,475	93,807	131,894
Livestock	\$ 840,737	\$ 742,736	\$1,086,617	\$1,196,079
Poultry & Eggs	80,318	65,499	62,909	46,643
Dairy	485,790	417,115	578,875	688,507
Livestock & products	274,629	260,122	444,833	460,929
Total:	\$1,262,143	\$1,410,932	\$1,905,841	\$1,899,368
Average per farm:	\$ 1,763	\$ 2,122	\$ 3,812	\$ 4,221

Source: Census of Agriculture

VALUE OF FARM PRODUCTS SOLD OFF FARMS, PACIFIC COUNTY,  
1959 AND 1964



Source: Census of Agriculture

Crop and Livestock Reporting Service

**TABLE 2: VALUE OF PRODUCTS SOLD OFF FARMS, COUNTIES OF WASHINGTON,  
CENSUS YEARS, 1949 - 1964**

County	1949	1954	1959	1964
Clallam	\$ 2,656,236	\$ 2,854,390	\$ 3,564,567	\$ 3,172,172
Clark	8,450,958	8,584,322	11,243,224	12,309,452
Cowlitz	2,827,106	2,694,404	3,831,175	3,931,266
Grays Harbor	3,080,212	3,331,435	3,563,844	4,505,695
Island	2,833,570	2,588,862	2,425,435	2,884,369
Jefferson	824,842	839,304	970,675	788,951
King	18,440,167	17,735,289	20,538,402	21,032,450
Kitsap	2,133,518	1,844,958	1,812,366	1,750,906
Lewis	7,895,962	7,710,697	9,829,217	10,499,779
Mason	640,121	761,174	930,844	992,947
PACIFIC	1,262,143	1,410,932	1,905,841	1,899,368
Pierce	11,952,204	12,135,819	15,778,685	18,770,688
San Juan	721,468	641,242	687,097	510,900
Skagit	10,566,287	12,023,393	15,890,942	20,351,446
Skamania	439,588	787,121	543,331	427,554
Snohomish	11,218,642	11,337,746	15,687,935	16,494,549
Thurston	3,867,617	4,000,277	7,789,338	8,090,222
Wahkiakum	1,173,523	1,469,551	1,227,057	1,605,061
Whatcom	15,341,909	16,973,748	21,650,255	25,621,411
Benton	8,573,126	15,379,081	16,871,161	16,350,283
Chelan	17,945,923	27,729,500	17,537,646	23,187,653
Kittitas	9,029,214	9,716,081	13,907,203	16,795,827
Klickitat	5,583,024	7,597,621	6,942,899	6,060,506
Okanogan	14,011,597	13,601,972	16,405,121	20,341,925
Yakima	55,886,315	100,593,564	108,679,743	118,417,220
Ferry	1,066,056	1,186,402	1,327,441	1,176,010
Pend Oreille	990,359	1,043,708	1,487,489	1,322,134
Spokane	16,169,170	22,421,797	23,494,974	26,542,788
Stevens	5,148,871	6,103,363	9,512,472	7,552,267
Adams	14,873,728	18,956,321	24,602,832	31,023,491
Douglas	12,367,934	16,815,217	14,053,019	13,279,582
Franklin	4,765,231	8,659,404	13,901,871	20,493,506
Grant	9,004,317	22,487,884	38,638,732	63,088,937
Lincoln	20,310,378	28,716,300	24,288,642	21,186,234
Asotin	2,611,370	2,966,889	3,769,046	4,537,274
Columbia	6,094,166	9,389,734	10,926,813	8,586,446
Garfield	5,369,761	8,679,688	7,769,898	6,338,506
Walla Walla	17,743,732	23,547,800	24,186,300	24,393,126
Whitman	31,338,682	50,728,273	51,030,918	50,769,565
State	\$ 365,209,027	\$ 506,045,263	\$569,204,450	\$ 637,082,466

Source: Census of Agriculture.

Pacific County Agriculture

TABLE 3: AVERAGE PER FARM, VALUE OF PRODUCTS SOLD, COUNTIES OF WASHINGTON, CENSUS YEARS, 1949 - 1964

County	1949	1954	1959	1964
Clallam	\$ 2,424	\$ 2,766	\$ 4,837	\$ 4,388
Clark	2,045	2,098	4,024	4,716
Cowlitz	1,901	2,068	3,816	4,534
Grays Harbor	2,146	2,426	3,925	5,960
Island	3,498	4,169	4,910	6,541
Jefferson	1,992	2,281	4,166	3,775
King	3,355	3,425	6,874	11,525
Kitsap	1,191	1,190	1,918	2,072
Lewis	2,325	2,718	4,259	4,909
Mason	1,123	1,498	2,974	3,343
PACIFIC	1,763	2,131	3,812	4,221
Pierce	2,778	3,352	5,945	9,139
San Juan	1,859	1,961	3,385	3,078
Skagit	3,834	5,008	8,953	13,215
Skamania	1,839	3,266	3,354	2,656
Snohomish	2,344	2,611	5,226	6,836
Thurston	1,913	2,246	6,043	6,781
Wahkiakum	2,979	4,004	4,382	5,774
Whatcom	3,459	4,212	6,917	9,210
Benton	5,974	9,511	12,801	13,091
Chelan	9,327	14,789	10,866	15,636
Kittitas	7,998	8,097	15,316	22,789
Klickitat	6,155	9,971	9,975	9,239
Okanogan	6,926	7,702	9,521	12,572
Yakima	8,031	15,272	18,137	21,768
Ferry	2,462	2,937	5,440	4,742
Pend Oreille	1,981	2,264	3,914	4,265
Spokane	4,338	6,232	7,900	11,176
Stevens	2,407	3,187	6,129	5,191
Adams	24,707	31,913	32,543	41,698
Douglas	12,356	16,951	15,702	15,334
Franklin	14,396	21,595	18,685	25,974
Grant	16,737	20,688	27,058	39,629
Lincoln	19,035	27,091	25,014	22,659
Asotin	5,568	6,549	13,607	19,390
Columbia	15,160	26,751	37,549	28,717
Garfield	16,781	31,448	33,636	25,558
Walla Walla	14,449	20,710	24,630	26,688
Whitman	15,530	25,750	27,525	31,090
State	\$ 5,231	\$ 7,769	\$ 11,042	\$ 13,979

Source: Census of Agriculture

Crop and Livestock Reporting Service

**TABLE 4: VALUE OF ALL CROPS SOLD AND VALUE OF ALL LIVESTOCK AND LIVESTOCK PRODUCTS SOLD, COUNTIES OF WASHINGTON, 1959 and 1964**

County	Crops		Livestock	
	1959	1964	1959	1964
Clallam	\$ 706,055	\$ 695,444	\$ 2,858,512	\$ 2,470,046
Clark	3,020,725	3,092,877	8,222,499	9,186,800
Cowlitz	1,022,291	1,682,214	2,808,884	2,245,197
Grays Harbor	924,067	644,658	2,639,777	3,857,656
Island	515,863	478,020	1,909,572	2,397,149
Jefferson	212,568	77,015	758,107	708,671
King	6,240,212	6,207,381	14,298,190	14,799,347
Kitsap	437,819	716,718	1,374,547	1,032,598
Lewis	1,893,636	1,497,026	7,935,581	8,988,527
Mason	202,594	289,509	728,250	701,578
PACIFIC	819,224	697,339	1,086,617	1,196,079
Pierce	4,928,685	5,465,372	10,850,000	13,299,628
San Juan	91,694	99,552	595,403	317,445
Skagit	6,722,958	9,072,731	9,167,984	11,252,914
Skamania	283,595	240,725	259,736	181,829
Snohomish	2,788,695	2,569,353	12,899,240	13,911,349
Thurston	1,952,408	1,566,140	5,836,930	6,472,267
Wahkiakum	174,415	71,329	1,052,642	1,533,307
Whatcom	3,943,630	4,582,156	17,706,625	21,003,646
Benton	12,912,165	11,751,934	3,958,996	4,596,579
Chelan	16,877,563	22,231,464	660,083	919,382
Kittitas	2,961,833	3,330,139	10,945,370	13,367,518
Klickitat	3,859,102	3,117,517	3,083,797	2,931,589
Okanogan	10,681,584	15,913,070	5,723,537	4,402,440
Yakima	75,760,207	81,685,632	32,919,536	36,695,476
Ferry	396,384	260,596	931,057	913,814
Pend Oreille	265,001	393,006	1,222,488	926,428
Spokane	15,091,158	17,356,127	8,403,816	9,162,000
Stevens	3,836,457	2,308,537	5,676,015	5,231,822
Adams	21,055,532	23,350,288	3,547,300	7,665,278
Douglas	12,985,276	11,834,077	1,067,743	1,417,140
Franklin	10,305,160	15,789,700	3,596,711	4,702,621
Grant	26,083,038	37,694,585	12,555,694	25,369,049
Lincoln	21,035,259	17,803,295	3,253,383	3,373,799
Asotin	2,589,582	1,332,900	1,179,464	3,184,304
Columbia	9,778,027	7,550,360	1,148,786	1,024,186
Garfield	6,871,789	5,277,665	898,109	1,060,841
Walla Walla	19,957,499	20,305,062	4,228,801	4,076,760
Whitman	43,632,434	41,696,084	7,398,484	9,041,177
State	\$353,816,184	\$380,727,597	\$215,388,266	\$255,618,236

Source: Census of Agriculture

**Pacific County Agriculture**

**Cropland Harvested**

Pacific County farms harvested 8,220 acres of cropland in 1964, about the same as in 1959, but somewhat less than in 1954 and 1949. Although the trend was downward, total farm acreage fell more rapidly during this period. In 1949 harvested acreage represented 12 percent of the farmland in the county, 14 percent in 1954, 15 percent in 1959, and 17 percent in 1964.

Approximately 7,826 acres or 91 percent of the harvested cropland in 1964 was utilized for hay crops, chiefly clover and timothy. Nearly a thousand more acres were harvested than in 1949 when hay acreage composed 82 percent of the total cropland harvested. About 8 percent of the cropland harvested in 1964 was cranberries.

Roughly three-fourths of the farms in Pacific County harvested cropland during Census years 1949 to 1964. The average was 24 acres a farm in 1964, compared with 15 acres in 1949. Typically, most farmers harvested less than 10 acres. Of the 342 farms harvesting cropland in 1964, 161 harvested less than 10 acres compared with 333 in 1949. Larger farms harvested most of the cropland, however, with 76 percent of the total in 1964 harvested by 116 farms of 100 acres or more in size.

**TABLE 5: UTILIZATION OF HARVESTED CROPLAND, PACIFIC COUNTY, 1949-1964**

Crops Harvested	Acres 1949	Acres 1954	Acres 1959	Acres 1964
Hay crops	6,929	7,716	7,384	7,826
Cranberries	503	-	661	694
Corn	4	-	-	44
Small grains	189	234	45	16
Orchards & vineyards	108	74	73	16
Other berries	21	647	12	12
Potatoes	8	5	1	(*)
Other field crops	648	2	-	2
Field seed crops	-	202	-	-
Vegetables for sale	12	1	-	-
<b>Census Total:</b>	<b>8,469</b>	<b>8,726</b>	<b>8,184</b>	<b>8,220</b>

Source: Census of Agriculture (\*) fractional

Crop and Livestock Reporting Service

**TABLE 6: FARMS HARVESTING CROPLAND, CLASSIFIED BY ACRES HARVESTED, PACIFIC COUNTY, 1949-1964**

Acres Harvested	Farms 1949	Farms 1954	Farms 1959	Farms 1964
1 - 9	333	275	225	161
10 - 19	86	71	67	67
20 - 29	46	51	34	30
30 - 49	50	45	47	39
50 - 99	29	30	32	33
100 - 199	8	11	9	8
200 - 499 <sup>1/</sup>	2	3	3	3
500 - 999	-	-	-	1
1,000 or more	-	-	-	-
<b>Total Farms:</b>	<b>554</b>	<b>486</b>	<b>417</b>	<b>342</b>
<b>Total Acres:</b>	<b>8,469</b>	<b>8,726</b>	<b>8,184</b>	<b>8,220</b>

Source: Census of Agriculture <sup>1/</sup> 1949 and 1954: 200 or more acres.

**TABLE 7: CROPLAND HARVESTED, CLASSIFIED BY SIZE OF FARM, PACIFIC COUNTY, 1954-1964 <sup>1/</sup>**

Size of Farm in Acres	1954		1959		1964	
	Farms	Acres	Farms	Acres	Farms	Acres
Under 10	137	330	85	232	53	152
10 - 49	142	954	134	879	127	990
50 - 69	20	346	16	266	20	318
70 - 99	43	903	44	742	26	501
100 - 139	34	729	38	904	27	837
140 - 179	38	1,189	32	854	27	901
180 - 219	16	607	19	722	20	778
220 - 259	6	141	6	243	5	178
260 - 499	35	1,849	31	1,903	27	1,782
500 - 999	8	816	7	717	4	428
1,000 - 1,999 <sup>2/</sup>	7	862	5	722	4	<sup>3/</sup>
2,000 or more	-	-	-	-	2	<sup>3/</sup>
<b>Total:</b>	<b>486</b>	<b>8,726</b>	<b>417</b>	<b>8,184</b>	<b>342</b>	<b>8,220</b>

Source: Census of Agriculture. <sup>1/</sup> Comparable data not reported for 1949 by the Census of Agriculture. <sup>2/</sup> 1954 and 1959: 1,000 or more acres. <sup>3/</sup> Data withheld to avoid disclosure of information for individual farms; the two groups combined total 1,355 acres.

Transportation to Market

In recent years nearly all farm products sold by Pacific County producers and growers have moved by truck. In earlier decades there was greater dependence on Columbia River vessels going to Portland, and on coastwise ships freighting between Willapa Bay, Puget Sound and San Francisco. There was also greater use of rail service on the Northern Pacific branch line connecting South Bend and Raymond with Chehalis and Centralia.

Chief highways used in agricultural marketing are U. S. 101 and U. S. 410 which lead northward to Aberdeen and Hoquiam and eastward to the Puget Sound markets. U. S. 830 is important for products moving to the Columbia River cities of Longview, Vancouver and Portland. Both routes 410 and 810 interchange with U. S. 5, the north-south limited-access arterial which has greatly reduced transit times of farm produce moving to primary market areas. State route 6 from Raymond traverses the Willapa Valley farm region and connects with important livestock markets in Chehalis and Centralia. This route also interchanges with U. S. 5. State routes 103 and 105 serve the Long Beach and Grayland cranberry districts.

All told there are 150 miles of State and interstate roads in the county and 344 miles of county roads suitable for hauling farm produce. Today it may be said that no farm is without direct point-to-point truck contact with the market place.

FRUITS, NUTS AND BERRIES

Cranberries

Cranberries are the leading commercial agricultural commodity produced in Pacific County. Marketings exceeded \$1,568,400 in 1966, and for the period 1960-1966 averaged nearly \$783,764 a crop. Census data indicate that cranberries represented 28 percent of total farm marketings in 1964 - a low year for cranberries, however. One farm in four derived all or part of its income from cranberries.

Pacific County produces about 74 percent of Washington's cranberries, while the State as a whole contributed 8.4 percent of the national production in 1966. The annual crop is subject to wide extremes. For the period 1960-1966, production in Pacific County ranged from 3,230,000 pounds (1960) to 10,290,000 pounds (1961), with an average of 6,477,000 pounds annually for the seven years. In 1966 the crop was 9,990,000 pounds.

Growing cranberries is a specialized industry, and is restricted more by natural factors than any other berry. The plant requires a peat soil, adequate water supply, good drainage, and moderately cool

summers. The availability of sand also is a limiting factor. Sand aids in weed control and promotes a more vigorous vine growth. McFarlin is the leading variety grown in Washington and has proven superior to the Howe variety which is no longer planted. In Pacific County cranberries are grown in peat bogs laying between low sand dunes in the Long Beach and Grayland districts. Individual holdings are small and generally run from 1 to 15 acres; the average is 6.3 acres. The 110 or so cranberry farmers in Pacific County generally live surrounded by their holdings.

Sprinklers are used for frost control, application of chemicals, to guard against excessive summer heat and for irrigation. One-man mechanical pickers, manufactured locally or in Oregon, are used in harvesting which generally begins in September and extends into November. To return the picker to the top of the bog for the next harvesting pass, unique standard gauge light rails are used - an old Ford Model-A engine sometimes serving as locomotive.

Cranberry marketing is highly organized and integrated by the National Cranberry Association. Nearly all growers in Gray's Harbor and Pacific Counties are members of the Association which also includes a majority of cranberry growers in Wisconsin, Oregon and the North Atlantic states. Berries are trucked to the Association plant at Markham in Grays Harbor County for processing and packaging into several cranberry products.

#### Other Berries

Other berry crops such as strawberries, blueberries, and raspberries are of little commercial importance. In 1964, about 16 acres of cropland were planted to berries other than cranberries. Two thirds of the total yield of 15,244 pounds was blueberries.

#### Tree Fruits

Orchard fruit production declined sharply after 1949 when 393 farms reported a total of 108 acres in fruit trees, chiefly apples. More than 131,000 pounds of apples were harvested for sale that year. Partly because of a change in Census definition, but also because of the drop in the number of small farms, only 16 farms harvested 16 acres of tree fruit in 1964. In general, western Washington fruits are unable to compete in the market with the Yakima Valley and eastern Washington orchard areas. Many orchards have been removed from lands which are now more profitably utilized for livestock. Some orchard land has gone into residential use.

**Pacific County Agriculture**

**TABLE 8: CRANBERRIES, ACRES HARVESTED AND PRODUCTION, PRINCIPAL PRODUCING COUNTIES, WASHINGTON, 1945-1966**

Year	Pacific County		Grays Harbor County	
	Harvested Acres	Production Thou. lbs.	Harvested Acres	Production Thou. lbs.
1945	470	2,500	230	1,140
1946	460	3,100	210	1,100
1947	500	3,500	170	1,300
1948	500	3,200	170	1,040
1949	520	3,070	180	930
1950	520	2,500	180	800
1951	530	4,300	190	1,450
1952	580	2,200	220	800
1953	580	5,500	220	1,900
1954	580	4,600	220	1,550
1955	580	3,350	220	1,400
1956	670	4,670	280	1,800
1957	670	5,820	280	2,580
1958	640	4,050	260	1,680
1959	740	7,950	260	2,550
1960	790	3,230	260	1,040
1961	820	10,290	280	3,610
1962	670	3,850	280	1,550
1963	710	8,170	290	2,930
1964	710	4,990	290	1,710
1965	710	4,820	290	1,780
1966	710	9,990	290	3,510

Source: Washington Crop and Livestock Reporting Service

**TABLE 9: CRANBERRIES, UTILIZATION, PRICE RECEIVED BY GROWERS, AND VALUE OF PRODUCTION, WASHINGTON, 1957-1966**

Year	Processed	Fresh Market	Price	Value
	Thou. lbs.	Thou. lbs.	Cents/lb.	Thou. Dol.
1957	7,090	1,310	11.9	1,000
1958	4,330	1,400	12.0	688
1959	3,710	1,320	8.7	874 1/2
1960	3,050	1,220	9.1	389
1961	11,580	2,320	8.4	1,168
1962	3,650	1,750	9.7	524
1963	9,200	1,900	12.0	1,332
1964	4,500	2,200	13.2	884
1965	3,850	2,750	15.5	1,023
1966	12,800	700	15.7	2,120

Source: Washington Crop and Livestock Reporting Service. <sup>1/</sup> Includes returns to growers for cranberries dumped which qualified for payment under the Cranberry Payment Program.

**Crop and Livestock Reporting Service**

**TABLE 10: CRANBERRY ACREAGE AND PRODUCTION, WASHINGTON, OREGON, AND THE UNITED STATES, 1960-1966**

Year	United States		Oregon		Washington	
	Acres	Thou. lbs.	Acres	Thou. lbs.	Acres	Thou. lbs.
1960	21,200	134,070	550	2,800	1,050	4,270
1961	21,460	123,640	560	4,540	1,100	13,900
1962	20,610	132,450	560	2,950	950	5,400
1963	20,270	125,450	570	4,070	1,000	11,100
1964	20,670	134,450	570	3,450	1,000	6,700
1965	20,760	142,200	560	4,200	1,000	6,600
1966	20,760	159,860	560	4,860	1,000	13,500

Source: Washington Crop and Livestock Reporting Service. For other statistics on the cranberry industry in Washington, Oregon, and the United States as a whole, see the publication *Berry Crops* issued annually by the Washington Crop and Livestock Reporting Service.

**TABLE 11: BERRIES HARVESTED FOR SALE, PACIFIC COUNTY, 1949-1964**

Crop	1949	1954	1959	1964
<b>Strawberries</b>				
farms	14	8	8	4
acres	8	2	2	1
pounds	15,497	4,218	5,056	3,360
<b>Raspberries</b>				
farms	5	8	5	3
acres	3	2	1	(*)
pounds	3,591	6,309	374	1,200
<b>Blackberries and dew berries</b>				
farms	2	2	2	1
acres	4	1	(*)	(*)
pounds	2,850	1,400	500	20
<b>Blueberries</b>				
farms	6	3	6	5
acres	5	11	9	11
pounds	7,522	7,656	7,750	10,664
<b>Cranberries</b>				
farms	168	-	140	110
acres	503	-	661	694
pounds	3,070,230	-	7,828,322	4,879,169
<b>Other berries</b>				
farms	3	-	-	-
acres	1	631	-	-
pounds	210	-	-	-

Source: Census of Agriculture (\*) Fractional

Pacific County Agriculture

TABLE 12: TREE FRUITS, NUTS, AND GRAPES - NUMBER OF FARMS HARVESTING, TREES OR VINES OF ALL AGES (BEARING AND NONBEARING), AND QUANTITY HARVESTED FOR SALE, PACIFIC COUNTY, 1949-1964 1/

Crop		1949	1954	1959	1964
Apples	farms	362	78	40	16
	trees	3,981	1,481	716	318
	pounds	131,036	42,806	23,120	2,607
Peaches	farms	30	-	1	1
	trees	100	-	1	1
	pounds	371	-	-	-
Pears - Bartlett	farms	183	52	27	8
	trees	467	195	72	26
	pounds	20,000	4,000	2,000	-
Pears - Other	farms	79	37	12	4
	trees	199	131	43	10
	pounds	12,000	20,000	(*)	(*)
Grapes	farms	39	11	1	1
	vines	181	39	6	1
	pounds	80	-	-	-
Plums and prunes	farms	238	58	33	9
	trees	1,371	417	202	67
	tons, fresh wt.	20	9	1	-
Cherries - Sweet	farms	151	36	25	9
	trees	353	121	64	30
	pounds	3,388	1,170	500	36
Cherries - Sour	farms	63	23	11	3
	trees	179	67	20	14
	pounds	1,310	140	110	-
Apricots	farms	7	-	2	2
	trees	12	-	6	3
	pounds	20	-	-	-
English walnuts	farms	34	16	2	-
	trees	67	27	2	-
	pounds	152	36	5	-

(continued next page)

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TABLE 12: (continued)

Crop	1949	1954	1959	1964
Filberts				
farms	39 <u>3/</u>	10 <u>3/</u>	8	2
trees	275	80	25	3
pounds	320	1	30	-
TOTAL FARMS AND ACREAGE				
farms	393	60	40	16
acres	108	74	73	16

Source: Census of Agriculture. 1/ For 1949, does not include acreage for farms reporting less than 1/2 acre. For 1954, does not include data for farms with less than 20 trees or grapevines. 2/ English and Persian walnuts. 3/ Filberts and hazelnuts. (\* ) Fractional.

DAIRYING

Dairy products valued at \$688,507 or 36 percent of all farm marketings were the chief source of farm agricultural income in 1964. In 1959 and in 1954 whole milk and cream represented 30 percent of the total value of marketings.

Farm sales of whole milk increased after 1949 notwithstanding a decline in milk cow numbers. In 1949, 227 farms with approximately 2,600 milk cows sold 12,806,137 pounds of whole milk. In 1959, 110 farms with 1,732 cows marketed 15,354,150 pounds. In 1964 half that number of farms with 1,666 cows marketed 15,870,270 pounds of whole milk. Only 3 farms sold cream in 1964.

Many small part-time farms in the county keep milk cows but do not market milk. In 1964, 145 farms reported milk cows (compared with 409 farms in 1949). Most - 57 percent - kept only 1 or 2 cows; 27 farms kept 30 cows or more.

Local plants licensed to buy milk and cream in bulk are located in South Bend and Raymond. Other

TABLE 13: WHOLE MILK SOLD OFF FARMS, PACIFIC COUNTY, 1870-1964

Year	Pounds <u>2/</u>
1870	430
1879	-
1889 <u>1/</u>	1,745,877
1899	1,977,862
1909	5,419,789
1919	6,910,943
1924	9,251,734
1929	8,612,410
1934 <u>1/</u>	17,891,646
1939	12,501,141
1944	18,705,361
1949	12,806,137
1954	11,366,027
1959	15,354,150
1964	15,870,270

Source: Census of Agriculture. 1/ Produced on farms. 2/ 8.6 pounds = 1 gal. of milk

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nearly outlets for Pacific County milk are Chehalis in Lewis County, Hogue in Grays Harbor County, and at Satsop where there is a milk receiving station.

**TABLE 14: DAIRY PRODUCTS SOLD OFF FARMS, PACIFIC COUNTY, 1949-1964**

Year	Farms with Milk Cows		Milk or Cream Sold	Whole Milk		Butterfat		
	Farms	Cows	Value	Farms	Pounds	Farms	Pounds	
1949	409	1/	237	\$485,790	227	12,806,137	12	5,438
1954	344		149	417,115	139	11,366,027	10	11,487
1959	205		110	578,875	110	15,354,150	-	-
1964	145		57	688,507	54	15,870,270	3	3,257

Source: Census of Agriculture. 1/ As of April 1, 1950.

LIVESTOCK

Animals and animal products (other than milk) marketed by Pacific County farms in 1964 were valued at \$461,000, nearly 25 percent of all farm products sold. The total was 68 percent above 1949. Marketings of live animals made strong gains after 1950 as farmers, many of them part-time, shifted to beef cattle production. The period saw a steady increase in beef cattle production and marketings.

Cattle and Calves

Cattle and calves sold for slaughter, as feeders, and for breeding stock make up the third largest source of agricultural income in Pacific County. Marketings were valued at \$426,628 in 1964 and represented 93 percent of all animals and animal products (other than milk) marketed. Marketings in 1964 were about the same as in 1959 but were 74 percent above 1949. Cattle made up \$325,165 of the total (2,276 head), and calves \$101,463 (2,153 head).

**TABLE 15: FARMS KEEPING MILK COWS, CLASSIFIED BY NUMBER KEPT, PACIFIC COUNTY, 1964**

Cows	Farms
1 or 2	82
3 or 4	20
5 to 9	7
10 to 19	7
20 to 29	2
30 to 49	14
50 or more	13
<b>Total:</b>	<b>1,666 head by 145 farms.</b>

Source: Census of Agriculture

**TABLE 16: FARMS KEEPING CATTLE AND CALVES, CLASSIFIED BY NUMBER KEPT, PACIFIC COUNTY, 1964**

Cattle and Calves	Farms
1 to 9	133
10 to 19	62
20 to 49	75
50 to 99	47
100 to 199	10
200 or more	6
<b>Total:</b>	<b>10,405 head by 333 farms.</b>

Source: Census of Agriculture

Three-fourths of the farms in the county kept cattle and calves during 1964. Of these, 40 percent reported fewer than 10 animals; 63 farms kept 50 head or more; and 16 kept 100 head or more. During World War II and after 1950 off-farm employment opportunities encouraged many small-scale farmers to abandon dairying and substitute beef cattle which took less attention. Changes in dairy technology and marketing, requiring greater capital investment on the part of the producer, accelerated the trend. The number of cattle and calves on farms rose from 8,366 in 1950 to 10,405 in 1964 while the number of milk cows declined from 2,605 to 1,666 during the same period. In 1964, 254 farms or 56 percent of the farm places in the county marketed cattle and calves. Most marketed less than 5 head.

Community livestock auction yards in southwestern Washington are the chief outlets for Pacific County livestock. Stock culled from dairy herds is in many cases bought by county buyers. Animals sold for slaughter move to licensed slaughter houses in Centralia, Olympia, Tacoma and Longview. Licensed custom farm slaughterers are located in Aberdeen, Chehalis, Centralia and Olympia. Nearby public auction yards used by Pacific County livestockmen are located in Chehalis and Centralia as well as in Tacoma. Some cattle are trucked to stockyards and packing plants in the Portland-Vancouver area.

#### Other Livestock

Farm marketings of other livestock and their products were valued at \$34,301 in 1964 - but only \$3,640 of this amount represented live animals. Hogs, sheep and horses, important in former days, are minor in the agricultural economy of the county today.

The few farms raising hogs do so as a sideline. Only 17 farms kept hogs and pigs in 1964 and 29 did in 1959. The practice of keeping one or two feeder hogs for slaughter and farm household use has all but disappeared. Six farms sold hogs in 1964 compared with 34 in 1949, and marketings declined from 399 head with a value of \$7,001 in 1949 to 150 head valued at \$1,473 in 1964.

In the early days before the turn of the century sheep raising and wool were important sources of farm income in Pacific County. Sheep made efficient use of stumpland pastures and sloping brushlands. As in most parts of Washington numbers have declined, however, and only a few farms now raise sheep and sell live animals and wool. In 1964 two farms marketed 29 animals with a value of \$477 and four farms marketed 332 pounds of wool.

Formerly, the horse was not only important as the source of farm power - since replaced by the tractor and the truck - but the many animals both on the farm and in the towns were "markets" for

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grain and hay. With the elimination of horsepower hay and grain acreages were released to support dairying and beef cattle production or other agriculture. This revolution in land use was general throughout the country. Today it is a rare farmstead that harnesses a horse to a plow. A few farms sideline horses to sell for recreational and personal use.

TABLE 17: LIVESTOCK ON FARMS, PACIFIC COUNTY, 1850-1964

Year	Cattle and Calves	Milk Cows and Heifers	Sheep and Lambs	Horses and Colts	Mules	Hogs and Pigs
1860	532	169	164	62	6	112
1870	1,652	448	981	59	2	144
1880	2,276	689	1,910	122	6	464
1890	3,698	1,016	943	288	2	516
1900	5,811	1,637	1,577	622	14	876
1910	5,784	3,087	276	914	5	829
1920	6,963	3,298	323	838	2	1,380
1925	7,831	4,818	278	743	6	791
1930	8,643	3,253	1,061	672	4	478
1935	8,357	4,995	410	566	6	582
1940	7,257	4,115	247	515	10	857
1945	8,762	5,210	115	499	1	649
1950	8,366	2,605	114	271	11	436
1954	9,658	2,263	50	149	-	235
1959	9,775	1,732	95	122	-	110
1964	10,405	1,666	55	-	-	56

Source: Census of Agriculture. Data as of the Census date which was June 1st for 1850 through 1900; April 15th for 1910; January 1st for 1920, 1925, 1935 and 1945; April 1st for 1930, 1940, and 1950; and Oct. - Nov. for 1954, 1959, and 1964. The data are not always strictly comparable and the Census should be consulted for qualifying considerations. 1/ Both beef and dairy breeds.

TABLE 18: LIVESTOCK AND LIVESTOCK PRODUCTS, VALUE SOLD OFF FARMS, PACIFIC COUNTY, 1949-1964

Year	Cattle and Calves	Sheep and Lambs	Hogs and Pigs	Horses and Mules	Other and 1/ Products	Total
1949	\$245,780	\$ 715	\$ 7,001	\$ 4,404	\$ 16,551	\$ 274,629
1954	252,749	237	4,766	2,279	91	260,122
1959	427,795	65	16,830	-	143	444,833
1964	426,628	477	1,473	1,690	30,661	460,929

Source: Census of Agriculture. 1/ Fur-bearing animals, wool, honey and bees, goats, goat milk, mohair, meat, lard, hides, and other livestock products.

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**TABLE 19: CATTLE AND CALVES, NUMBER ON FARMS AND NUMBER SOLD,  
PACIFIC COUNTY, 1949-1964 1/**

Year	Cattle & Calves on Farms <u>2/</u>	Farms Reporting	Cattle & Calves Sold	Farms Selling
1949	8,366	488	2,554	265
1954	9,658	495	3,080	284
1959	9,775	344	3,495	309
1964	10,405	333	4,429	254

**TABLE 20: HOGS AND PIGS, NUMBER ON FARMS AND NUMBER SOLD,  
PACIFIC COUNTY, 1949-1964 1/**

Year	Hogs & Pigs on Farms	Farms Reporting	Hogs & Pigs Sold	Farms Selling
1949	436	90	399	34
1954	235	61	191	19
1959	110	29	510	15
1964	56	17	150	6

**TABLE 21: HORSES AND MULES, NUMBER ON FARMS AND NUMBER SOLD,  
PACIFIC COUNTY, 1949-1964 1/**

Year	Horses & Mules on Farms	Farms Reporting	Horses & Mules Sold	Farms Selling
1949	282	112	208	13
1954	149	73	28	10
1959	122	46	-	-
1964	-	-	8	5

**TABLE 22: SHEEP AND LAMBS, NUMBER ON FARMS AND NUMBER SOLD,  
PACIFIC COUNTY, 1949-1964 1/**

Year	Sheep & Lambs on Farms	Farms Reporting	Sheep & Lambs Sold	Farms Selling
1949	114	10	47	4
1954	50	7	17	3
1959	95	10	5	5
1964	55	6	29	2

Source: Census of Agriculture. 1/ Animals on farms censused as of April 1, 1950, and during the approximate period October - November for the other years. Sales are for the calendar year indicated. 2/ Includes both beef and dairy breeds.

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**TABLE 23: FARMS, CLASSIFIED BY NUMBER OF CATTLE AND CALVES SOLD, PACIFIC COUNTY, 1964**

Cattle		Farms	Calves		Farms
1 to 4		112	1 to 4		83
5 to 19		75	5 to 19		61
20 to 99		16	20 to 99		25
100 or more		4	100 or more		4
<b>Total:</b>		<b>207</b>	<b>Total:</b>		<b>173</b>

Source: Census of Agriculture

**TABLE 24: WOOL PRODUCTION, PACIFIC COUNTY, 1949-1964**

Year	Farms	Sheep Shorn	Pounds
1949	8	97	738
1954	4	20	182
1959	5	56	348
1964	4	44	332

Source: Census of Agriculture

**POULTRY AND EGGS**

Chicken eggs, along with marketings of cull hens and roosters, are a minor part of Pacific County farm income, and made up about 2.5 percent of total marketings in 1964. About 136,000 dozen eggs together with 8,829 hens and roosters returned \$46,643 to 33 farms in 1964. Most of these farms represented small sideline egg operations. Twenty of them sold less than 400 dozen, and only one sold more than 20,000 dozen. Between 1949 and 1964, 146 farms discontinued the production of eggs for market.

The number of farms reporting chickens four months old and over declined from 175 in 1959 (15,209 birds) to 90 in 1964 (12,640 birds). Of the 1964 number, 82 farms kept less than 100 chickens.

Although many eggs are sold locally to retailers, principal marketings are through the Western Farmers Association. Turkeys, ducks, and geese are raised chiefly for home consumption and significant quantities do not enter commercial markets.

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**TABLE 25: FARMS KEEPING CHICKENS,  
CLASSIFIED BY NUMBER KEPT,  
PACIFIC COUNTY, 1964**

Chickens <u>1/</u>	Farms <u>2/</u>
Less than 100	82
100 - 399	5
400 - 1,599	2
1,600 - 3,199	-
3,200 - 9,999	1
10,000 or more	-
<b>Total farms:</b>	<b>90</b>
<b>Total chickens:</b>	<b>12,640</b>

Source: Census of Agriculture.

1/ Four months old and over.

2/ Of which 78 farms kept 10,230 hens and pullets of laying age.

**TABLE 26: FARMS SELLING CHICKEN  
EGGS, CLASSIFIED BY DOZENS SOLD,  $\epsilon$   
PACIFIC COUNTY, 1964**

Dozens of Eggs	Farms
1 - 399	20
400 - 1,599	3
1,600 - 4,999	4
5,000 - 19,999	3
20,000 or more	1
<b>Total farms:</b>	<b>31</b>
<b>Total dozens:</b>	<b>136,011</b>

Source: Census of Agriculture

**TABLE 27: POULTRY AND POULTRY PRODUCTS SOLD OFF FARMS,  
PACIFIC COUNTY, 1949-1964**

Subject	1949	1954	1959	1964
<b>All poultry and products</b>				
Farms	195	105	54	33
Value	\$80,318	\$65,499	\$62,909	\$46,643
<b>Broilers</b>				
Farms	-	3	-	-
Number	-	3,200	-	-
<b>Hens and roosters</b>				
Farms	95	44	24	12
Number	12,890 <u>1/</u>	7,555	7,033	8,929
<b>Chicken eggs</b>				
Farms	177	92	46	31
Dozens	116,045	116,917	172,797	136,011
<b>Turkeys and turkey fryers</b>				
Farms	-	3	1	-
Number	-	14	3	-
<b>Ducks, geese, and other poultry</b>				
Farms	6	8	4	5
Value	\$ 151	\$ 326	\$ 290	\$ 493 <u>2/</u>

Source: Census of Agriculture. 1/ All chickens sold.

2/ Includes turkeys.

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### FIELD CROPS:

From the standpoint of farm cash income field crop agriculture in Pacific County is of minor importance. Marketings of hay and other field crops in 1964 were valued at less than \$26,000 - about 1.4 percent of gross farm marketings. However, hay acreages represented 95 percent of the cropland harvested. Practically the entire 1964 production of more than 19,000 tons remained on the producing farm as livestock feed. Only 10 percent of the clover and timothy harvest was marketed (691 tons), less than one percent of the wild hay, and little if any of the silage produced moved to cash markets.

#### Hay crops

Clover and timothy and mixtures of clover and grasses cut for hay compose the chief hay crop. Clover-timothy produces a hay of good quality which is rich in protein and mineral content. The crop is well-suited to the humid summers of an area where precipitation is heavy and droughts and hot sun do little damage. It is also used for silage, green chop or summer pasture. Clover-timothy acreages increased from 1,635 acres in 1949 to 4,075 acres in 1964, 52 percent of the total hay acreage. Production increased from 2,999 to 6,697 tons during this period.

Grass silage made from grasses, alfalfa, clover or small grains also increased in importance. Acreage harvested doubled between 1949 and 1964 to 16 percent of the total hay acreage cut. Production rose from 2,658 tons greenweight to 8,930 tons.

Wild hay was the third most valuable hay crop grown by Pacific County farmers in 1964. Both acreage and production remained fairly stable during the period 1949-1964. In 1964, 1,371 acres yielded 1,445 tons. Other hays, including alfalfa, declined. Miscellaneous hays represented less than 9 percent of the hay acreage in 1964 and about 7 percent of total hay tonnage. Similarly, small grains cut for hay declined in importance between 1949 and 1964.

#### Other Field Crops

Small grain production in the county is used mostly for livestock feed. Only 16 acres of small grains were harvested in 1964, divided between wheat and oats. Over the years oats has been the chief grain crop. About 29 farms harvested Irish potatoes for home use or sale in 1964, substantially fewer than in 1954 and 1949. Acreage was fractional and 7,400 pounds were harvested. Five farms harvested 44 acres of corn in 1964, almost entirely for silage; 395 tons greenweight were produced.

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TABLE 28: HAY CROPS HARVESTED, PACIFIC COUNTY, 1949-1964

Crop	1949	1954	1959	1964
Alfalfa and alfalfa mixtures cut for hay and for dehydrating				
farms	4	1	3	1
acres	227	30	13	10
tons	420	40	24	20
Clover and timothy and mixtures of clover and grasses cut for hay				
farms	89	148	124	127
acres	1,635	3,620	3,768	4,075
tons	2,999	6,130	7,082	6,697
Vetch or peas alone or mixed with oats or other grains cut for hay				
farms	-	-	-	2
acres	-	-	-	14
tons	-	-	-	33
Small grains cut for hay				
farms	107	41	30	27
acres	938	406	320	433
tons	1,587	777	634	665
Wild hay cut				
farms	86	80	95	72
acres	1,115	1,378	1,267	1,371
tons	2,127	1,714	2,089	1,445
Other hay cut <sup>1/</sup>				
farms	155	79	55	28
acres	2,411	1,095	983	672
tons	3,632	1,682	1,714	1,311
Grass silage made from grasses, alfalfa, clover or small grains				
farms	35	45	33	26
acres	603	1,187	1,033	1,251
tons, green wt.	2,658	6,918	7,825	8,930
<b>TOTAL HAY CROPS</b>				
acres	6,929	7,716	7,384	7,826
tons	13,423	17,261	19,368	19,101

Source: Census of Agriculture.

<sup>1/</sup> For 1949 includes vetch or peas cut for hay.

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**TABLE 29: OTHER FIELD CROPS HARVESTED, PACIFIC COUNTY, 1949-1964**

Crop		1949	1954	1959	1964
<b>Field seed crops</b>					
	farms	7	-	-	-
	acres	648	202	-	-
	pounds	90,131 1/2	200	-	-
<b>Irish potatoes</b>					
	farms	78	139	41	29
	acres 2/	8	5	1	(*)
	cwt.	803	846	169	74
<b>Corn for all purposes</b>					
	farms	1	-	-	5
	acres	4	-	-	44

Source: Census of Agriculture. (\*) fractional.  
 1/ Includes 89,471 pounds of bentgrass seed on 616 acres, grown by 5 farms and valued at \$62,630. 2/ Acreage for 1949 and 1954 excludes farms with less than 10 one-hundred pound bags harvested.

**TABLE 30: SMALL GRAINS HARVESTED, PACIFIC COUNTY, 1949-1964**

Crop		1949	1954	1959	1964
<b>Wheat harvested</b>					
	farms	-	1	-	1
	acres	28	5	11	8
	bushels	650	125	350	430
<b>Oats for grain</b>					
	farms	15	22	4	2
	acres	161	229	32	8
	bushels	6,115	8,219	1,040	380
<b>Barley for grain</b>					
	farms	-	-	1	-
	acres	-	-	2	-
	bushels	-	-	20	-
<b>TOTAL SMALL GRAINS</b>					
	acres	189	234	45	16
	bushels	6,765	8,344	1,410	810

Source: Census of Agriculture.

VEGETABLES

Terrain and the absence of fertile bottom soils have discouraged the development of commercial vegetable agriculture in Pacific County. In 1920, 48 acres of vegetables, excluding potatoes, were produced. Acreage increased to 81 in 1929, 85 in 1934, and rose in 1939 when 8 farms harvested 193 acres of green peas. Marketings of green peas that year exceeded \$6,400.

After World War II commercial vegetable acreage lagged and by 1954 had all but vanished. Typically, however, many farms continued to grow various vegetables for home use. Home-use vegetables grown by 611 farms in 1939 were valued at more than \$30,400. In 1949, 500 farms grew vegetables for home use and in 1959, 270 farms grew vegetables for the family.

TABLE 31: VEGETABLES HARVESTED FOR SALE, PACIFIC COUNTY, 1929-1964 <sup>1/</sup>

Year	Farms	Acres	Value
1929	102	81	\$15,267
1934	-	85	-
1939	13	205	8,307
1944	19	53	2,979
1949	9	12	2,069
1954	5	1	800
1959	3	(*)	520
1964	-	-	-

Source: Census of Agriculture.

<sup>1/</sup> Excludes potatoes. (\*) fractional.

FOREST AND SPECIALTY PRODUCTS

Forest and specialty products marketed off Pacific County farms in 1964 were valued at \$131,894 or 7 percent of total farm marketings. Forest products composed 75 percent of the total, and specialty crops - chiefly nursery products - the other fourth.

Forest Products

Forest products cut from farmer-owned woodlands represent a valuable part of Pacific County's farm economy. Here, as throughout western Washington, farm forest lands yield a varied list of products for sale and for home use. Products valued at \$98,785 were marketed in 1964, 77 percent of which was standing timber. For Census years 1949 through 1964 timber sales averaged three-fourths of the value of all forest products marketed off farms.

Marketings of other forest products - firewood, fuelwood, pulpwood, fence posts, saw and veneer logs, and a few Christmas trees - were valued at \$23,016 in 1964. Saw and veneer logs constitute the chief marketable product. The importance of these products as sources of farm cash income declined between 1949 and 1964. Only 35 farms in the county, less than 8 percent, marketed forest products in 1964. Many more, however, cut firewood and fence posts from woodland acreages for home use.

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TABLE 32: FOREST PRODUCTS SOLD OFF FARMS, PACIFIC COUNTY, 1949-1964

Crop	1949	1954	1959	1964
<b>Standing timber</b>				
farms	41	24	18	
sales	\$61,891	\$35,911	\$75,769	
<b>All other forest products:</b>				
firewood, pulpwood, fence posts, sawlogs, and Christmas trees				
farms	7	21	22	
sales	\$64,041	\$40,099	\$23,016	
<b>TOTAL FOREST PRODUCTS</b>				
farms	48	45	40	35
sales	\$125,932	\$74,570	\$76,010	\$98,785

Source: Census of Agriculture

TABLE 33: PRODUCTION AND MARKETINGS OF FOREST PRODUCTS OTHER THAN STANDING TIMBER OFF FARMS, PACIFIC COUNTY, 1949-1964

	1949	1954	1959	1964
<b>Fuelwood &amp; firewood</b>				
farms cutting	176	197	186	128
cords cut	2,043	2,002	1,792	1,303
farms selling	-	-	13	14
cords sold	-	-	250	285
<b>Pulpwood</b>				
farms selling	4	8	2	4
cords sold	261	243	564	406
<b>Fence posts</b>				
farms cutting	42	43	35	7
number cut	5,163	4,216	4,770	1,775
farms selling	-	-	12	-
number sold	-	-	600	-
<b>Saw &amp; veneer logs</b>				
farms cutting	15	34	1/	18
1,000 BFM cut	2,090	4,445	1/	665
farms selling	-	-	9	8
1,000 BFM sold	-	-	606	235
<b>Christmas trees</b>				
farms selling	-	-	2	1
number sold	-	-	2	100

Source: Census of Agriculture. 1/ Includes standing timber sold.

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Specialty Crops

Farm marketings of nursery and greenhouse products, plants, flowers, and seeds aggregated \$33,109 in 1964, nearly double the amount sold in 1959. Nursery products - trees, shrubs, vines, and ornamentals - made up 97 percent of the total. Production occupied about 14 acres of land, and four farms were engaged in this activity. A few potted plants, cut flowers, and florist greens were marketed in 1964.

TABLE 34. SPECIALTY CROPS SOLD OFF FARMS, PACIFIC COUNTY, 1949-1964

Crop	1949	1954	1959	1964
Nursery products (trees, shrubs, vines, ornamentals)				
farms	5	6	5	4
acres	78	16	12	14
sales	\$43,375	\$24,700	\$15,279	\$32,200
Cut flowers, potted plants, holly, florist greens, and bedding plants				
farms	-	2	4	3
grown under glass, sq. feet	-	\$ 3,630	\$ 2,680	\$ 992
grown in the open acres	(*)	1	1	-
sales	\$ 3,480	\$ 1,455	\$ 1,518	\$ 900
Vegetables under glass, flower and vegetable seeds, vegetable plants, bulbs, and mushrooms				
farms	-	1	1	1
grown under glass, sq. feet	-	3,600	-	9
grown in the open acres	(*)	1	1	-
sales	\$ 200	\$ 750	\$ 1,000	\$ 9
<b>TOTAL SPECIALTY CROPS</b>				
farms	-	-	7	7
sales	\$47,055	\$26,905	\$17,797	\$33,109

Source: Census of Agriculture (\*) fractional