

Appendix 2-I

Crop Land Cover Corning Subbasin

The dynamics of land cover changes for almond and walnut crops were examined to enhance the accuracy of time selection in the groundwater overdraft analysis. Given that almonds and walnuts are characterized as crops with high water demand, fluctuations in their cultivation areas are an indicator of alterations in the regional water budget. A notable shift in the areal distribution of these crops was detected around the year 2019. The Tehama/Glenn County Agricultural Commission Yearly Crop Summary was used in the analysis and is reported in a tabular format. Furthermore, spatial information regarding agricultural land cover was sourced from Land IQ, offering a subbasin wide evaluation of agricultural land use. This dataset is recognized as part of the Department of Water Resources (DWR) enterprise GIS data and meets all DWR spatial data standards.

Table Table 1: Total Acres by Crop Type in Tehama County

Crop Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alfalfa	1,892	2,358	2,198	1,184	2,378	1,801	1,626	1,720	1,592	1,240	1,253	1,132
Almond	9,399	9,396	10,313	10,749	10,870	12,165	11,595	12,370	13,300	15,768	17,922	19,970
Corn	1,656	1,963	1,761	882	262	441	415	563	689	621	502	687
Grain Hay	4,491	4,068	4,178	3,489	4,746	3,892	3,650	3,960	2,321	1,895	1,186	826
Grapes	90	90	104	121	207	191	172	141	162	138	206	209
Hay, Other	2,000	2,000	2,480	2,158							1,442	1,152
Misc Seed	484	170	352	1,407	159	386	442	523	198	157	121	196
Misc Vegetables	100	150	150	150	180	205	217	143	118	133	113	121
Olive Oil		3,331	3,325	3,853	3,278	3,615	3,565	2,889	3,738	4,177	3,687	3,790
Olives, Table	6,365	6,365	6,163	5,977	5,311	5,024	4,838	4,811	4,333	4,377	4,161	3,867
Pistachios	181	175	175	226	172	311					693	737
Prunes	8,310	8,014	6,559	6,343	6,020	6,094	5,541	5,257	5,195	5,055	9,204	5,094
Walnuts	19,204	21,753	21,304	24,560	23,738	25,559	24,687	25,082	26,147	27,849	29,291	30,665
Wheat	2,091	2,875	3,109	2,610	4,381	3,887	3,505	3,245	2,216	1,837	2,510	2,453

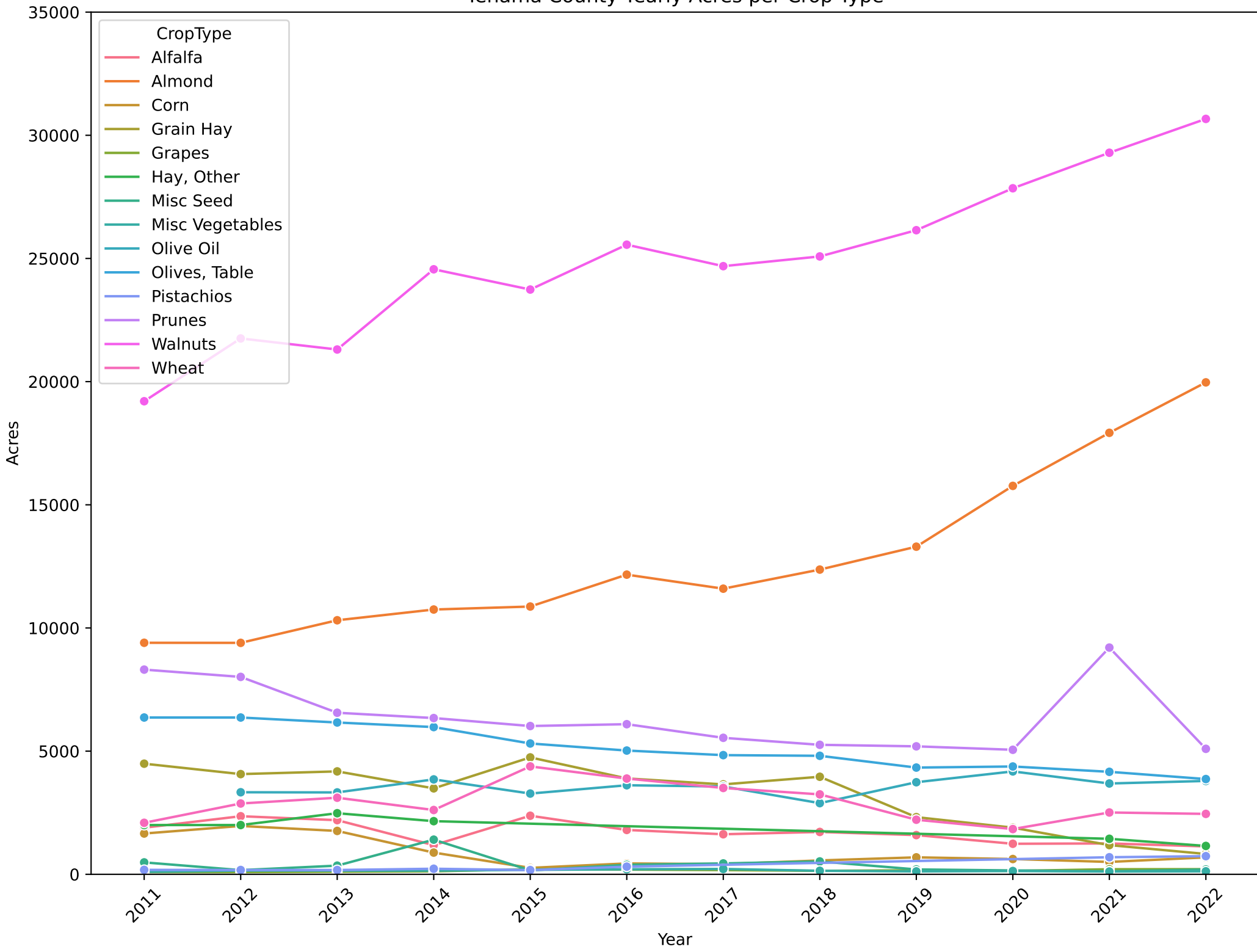
*obtained from Tehama Country Yearly Crop Reports

Table X-X Total Acres by Crop Type in Glenn County

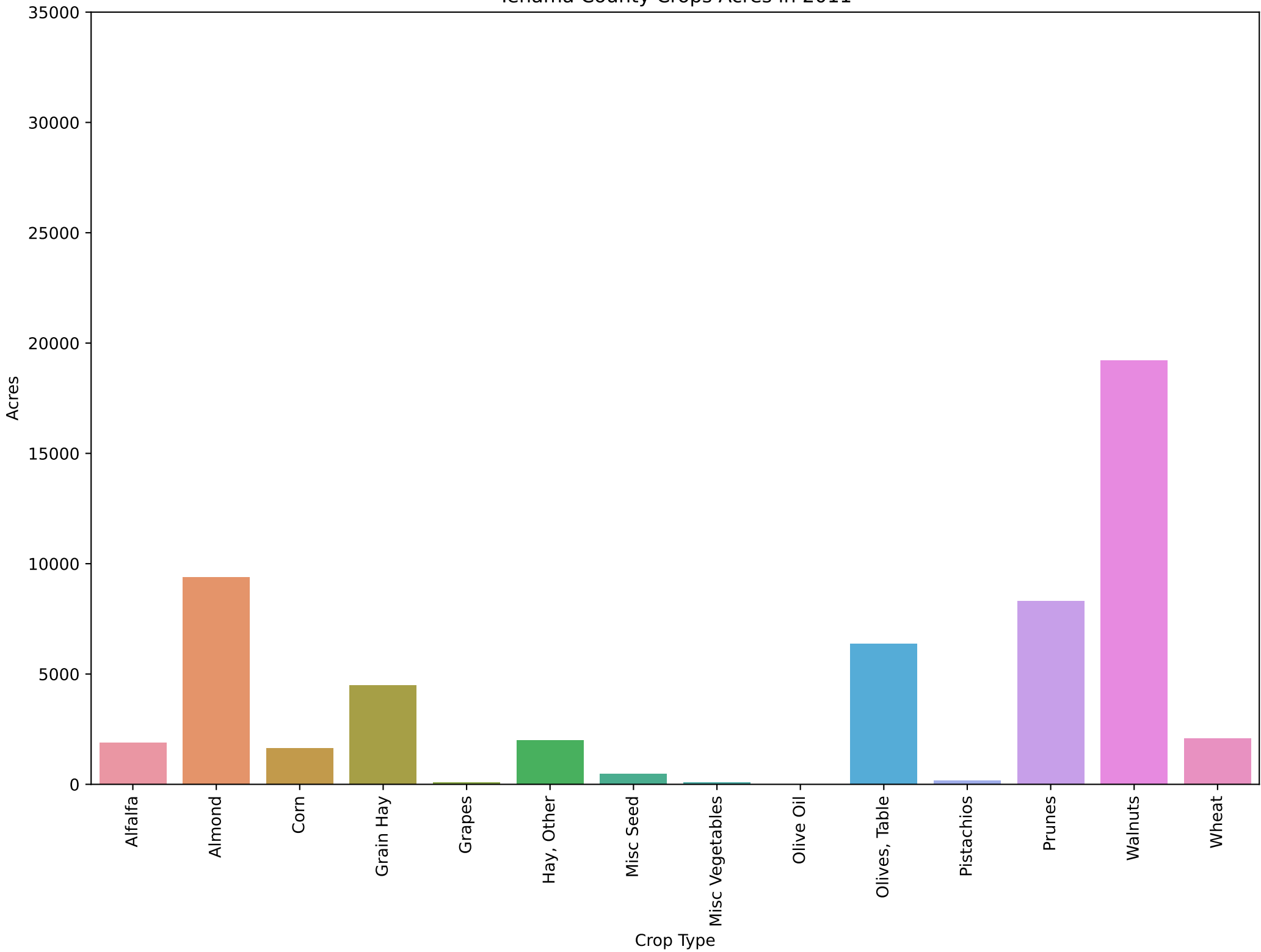
Crop Type	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022
Alfalfa	10,992	12,758	12,793	10,540	12,234	11,215	10,970	10,370	10,284	8,523	7,748	8,929
Almond	33,239	36,259	38,299	40,158	48,591	48,591	52,621	54,950	59,761	61,244	64,484	68,750
Barley		1,098	664	679	262	545		181	249	131	304	419
Bean Seed	873	1,305	336	367	800	1,133	808	729				
Beans	1,104	1,787	930	2,319	1,948	985	476	617	566	727	575	362
Citrus	429	342	310	310	245	245	245	283	271	234		
Corn	16,215	17,557	17,609	17,797	13,948	12,867	12,620	12,363	11,978	11,819	9,859	5,259
Corn, Silage	1,453	1,936	4,303	2,120	2,133	1,731	1,455	1,204	1,308	935	518	566
Cotton, Lint	2,496	1,683	1,252	1,832	1,414	2,200	2,978	1,809	2,700	1,663	1,898	1,510
Grapes	1,100	1,062	1,063	1,042	1,071	745						
Hay, Other	2,607	2,068	2,628	3,032	3,507	2,609	2,677	1,797	2,349	1,926	2,408	1,553
Misc Field Crop	14,002	13,185	13,081	14,978	11,396	13,363	11,749	12,789	12,930	8,749	8,348	5,327
Misc Fruit and Nut	327	376	609	708	1,045	1,043	1,072	250	240	227	338	373
Nursery	217	241	238	430	327	231	301	161	141	136	136	136
Oats	958	2,225	2,405	3,146	4,411	4,213	3,497	2,440	3,047	3,330	4,621	3,989
Olives, Oil	3,890	4,398	4,450	4,450	4,300	4,050	4,050	4,050	4,223	4,223	4,223	4,985
Olives, Table	4,485	4,485	4,433	4,433	4,433	4,333	4,050	4,271	4,271	4,055	3,882	3,819
Pasture	8,145	9,383	9,112	8,401	8,248	9,530	9,206	9,206	9,206	9,206	9,527	7,811
Pecan								589	589	589	692	692
Pistachio	1,351	1,474	1,474	1,727	1,945	1,945	1,949	2,047	2,047	2,047	2,124	2,590
Prune	5,743	5,966	5,760	5,760	5,022	3,767	3,767	3,767	3,767	3,611	3,303	3,303
Rice , Paddy	84,923	84,760	85,253	73,318	68,400	77,400	83,407	83,484	82,306	72,455	61,120	21,492
Rice Seed	2,286	2,748	2,044	1,758	2,554	2,248	2,193	2,016	2,762	2,441	2,550	2,717
Sunflower Seed	6,245	5,320	5,851	3,224	1,100	1,716	3,563	4,071	3,646	4,156	2,691	2,182
Tomatoes	130	58	138	838	1,216	1,323	1,740	1,365	1,958	1,718	1,290	800
Vine Seed	2,581	4,509	1,464	1,672	2,728	3,500	1,751	1,673	1,403	701	1,380	691
Walnut	17,596	19,545	21,672	26,153	28,587	30,670	31,060	32,390	34,371	39,727	41,197	41,700
Wheat	13,480	10,853	8,745	11,881	8,691	10,053	5,652	8,006	8,142	5,855	7,807	6,638
Wheat Silage		3,070	3,434	5,301	8,691	6,102	5,991	5,651	4,382	6,163	5,205	3,657

* obtained from Tehama Country Yearly Crop Reports

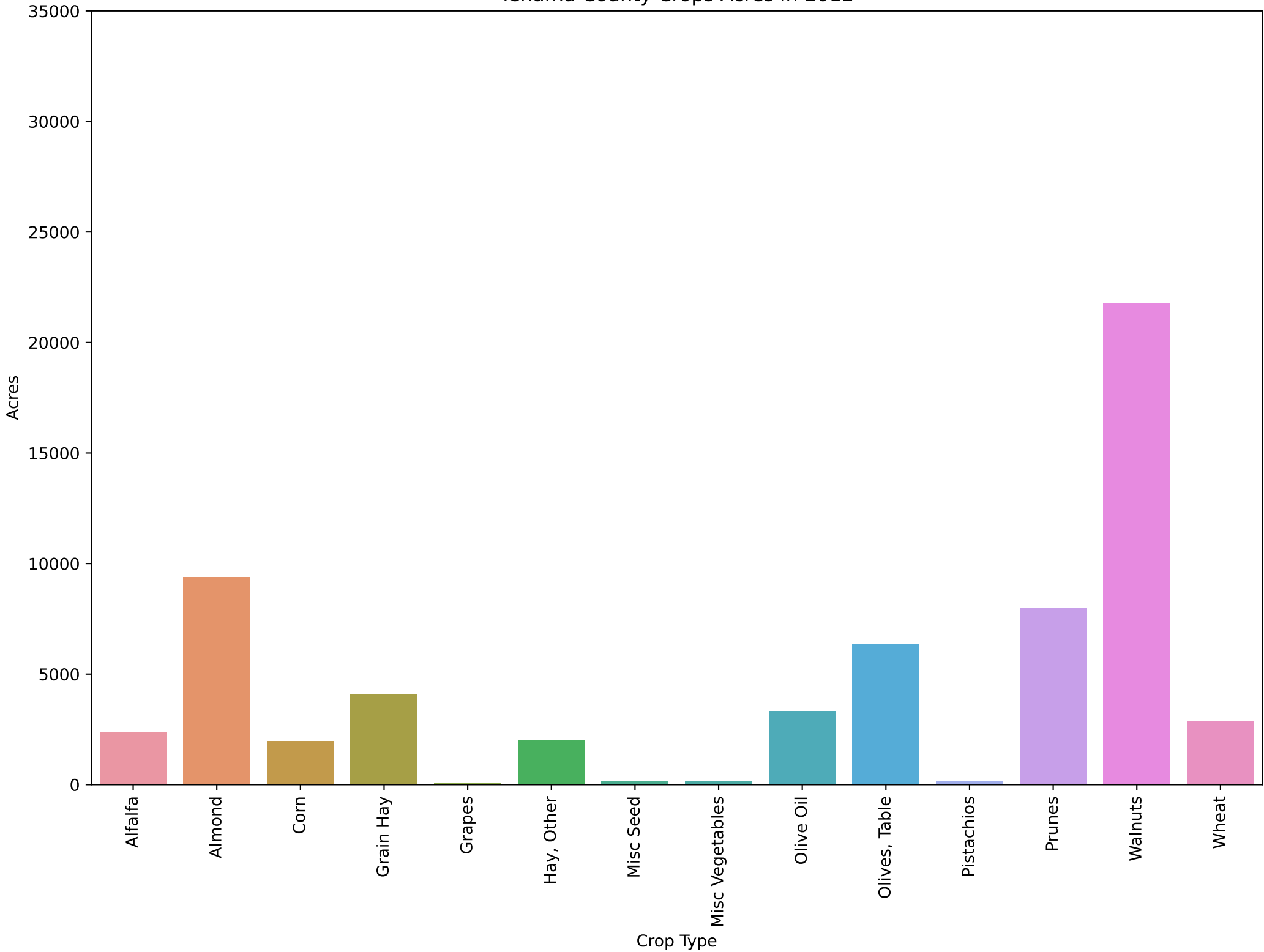
Tehama County Yearly Acres per Crop Type



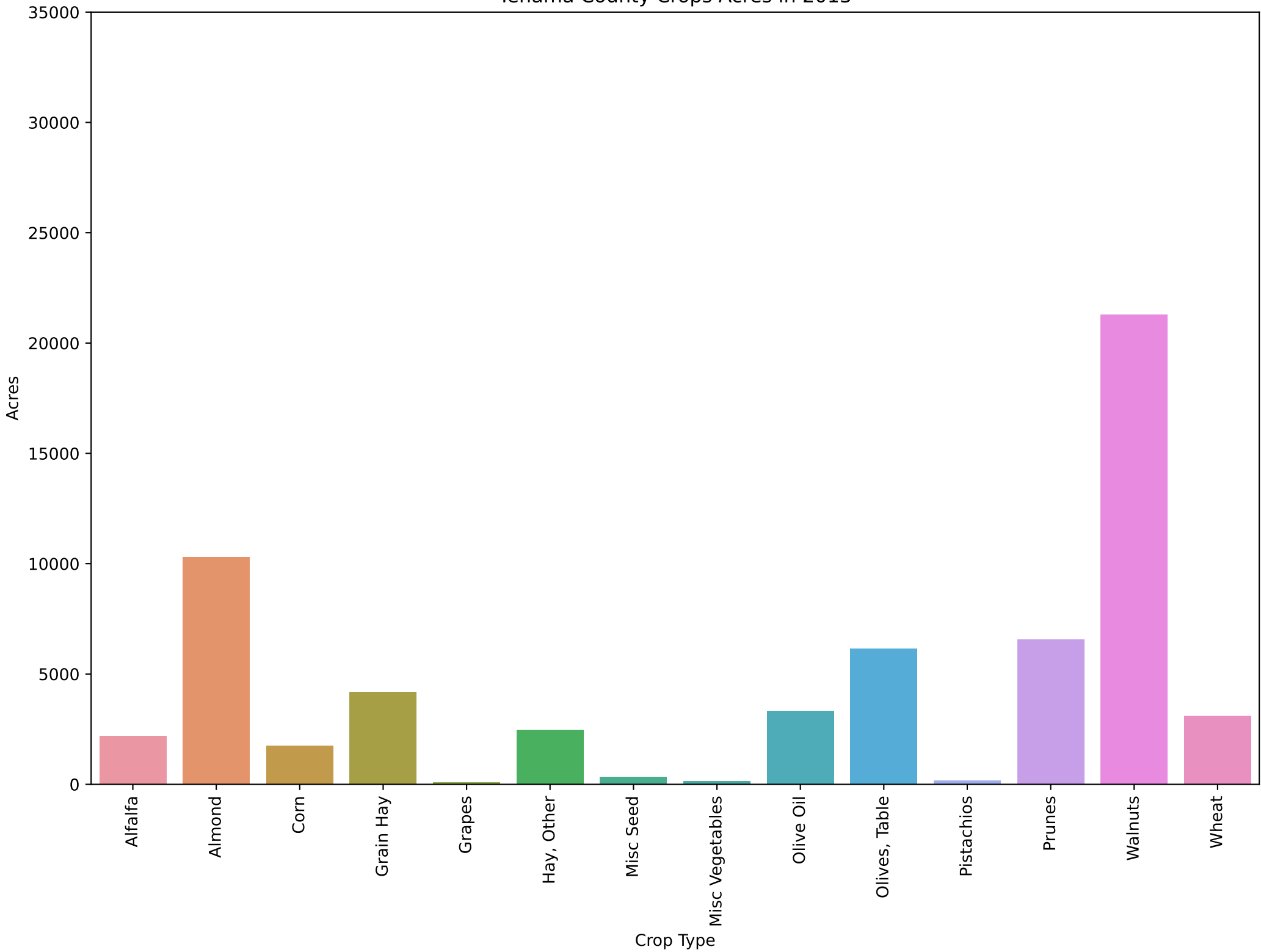
Tehama County Crops Acres in 2011



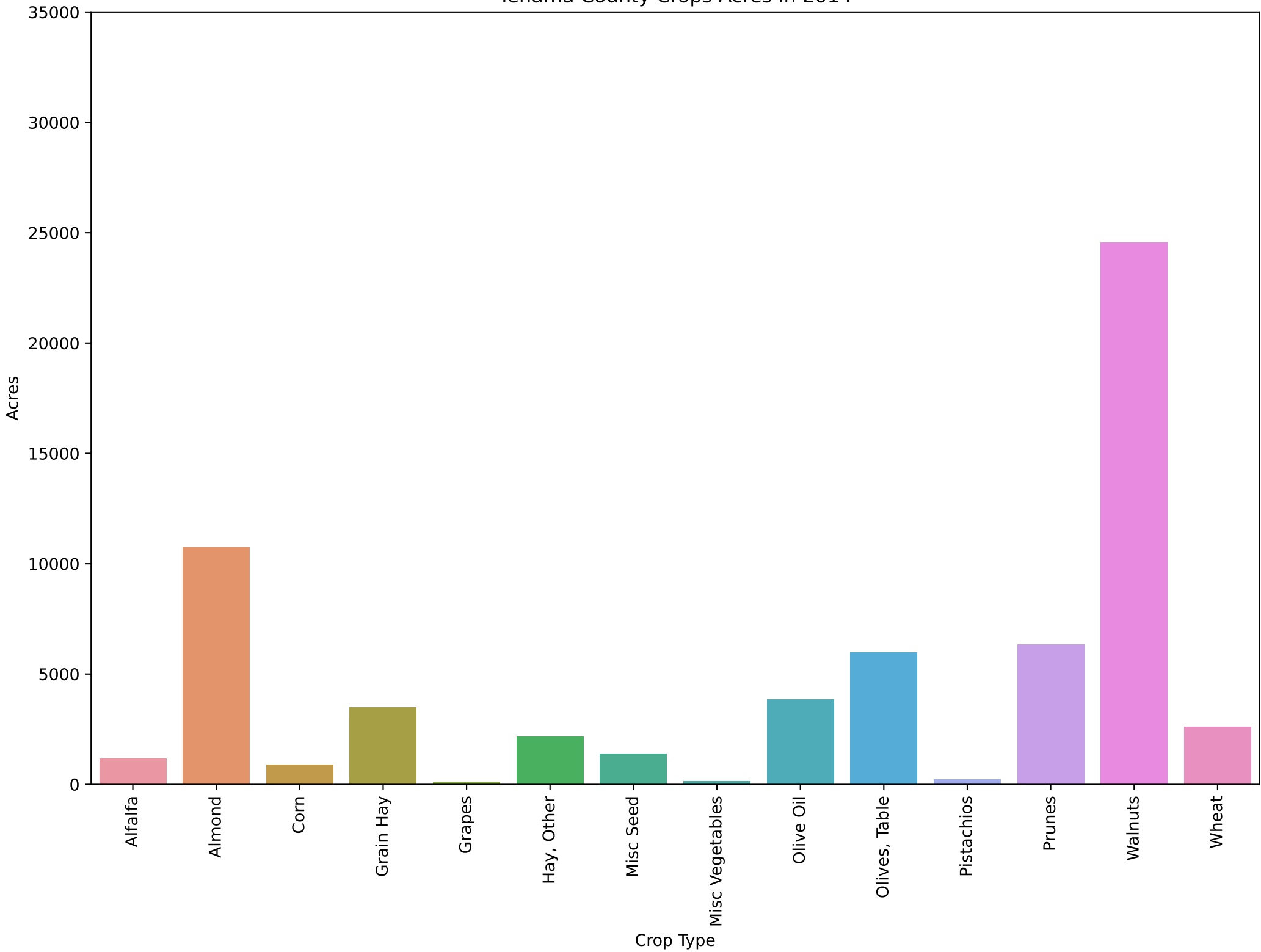
Tehama County Crops Acres in 2012



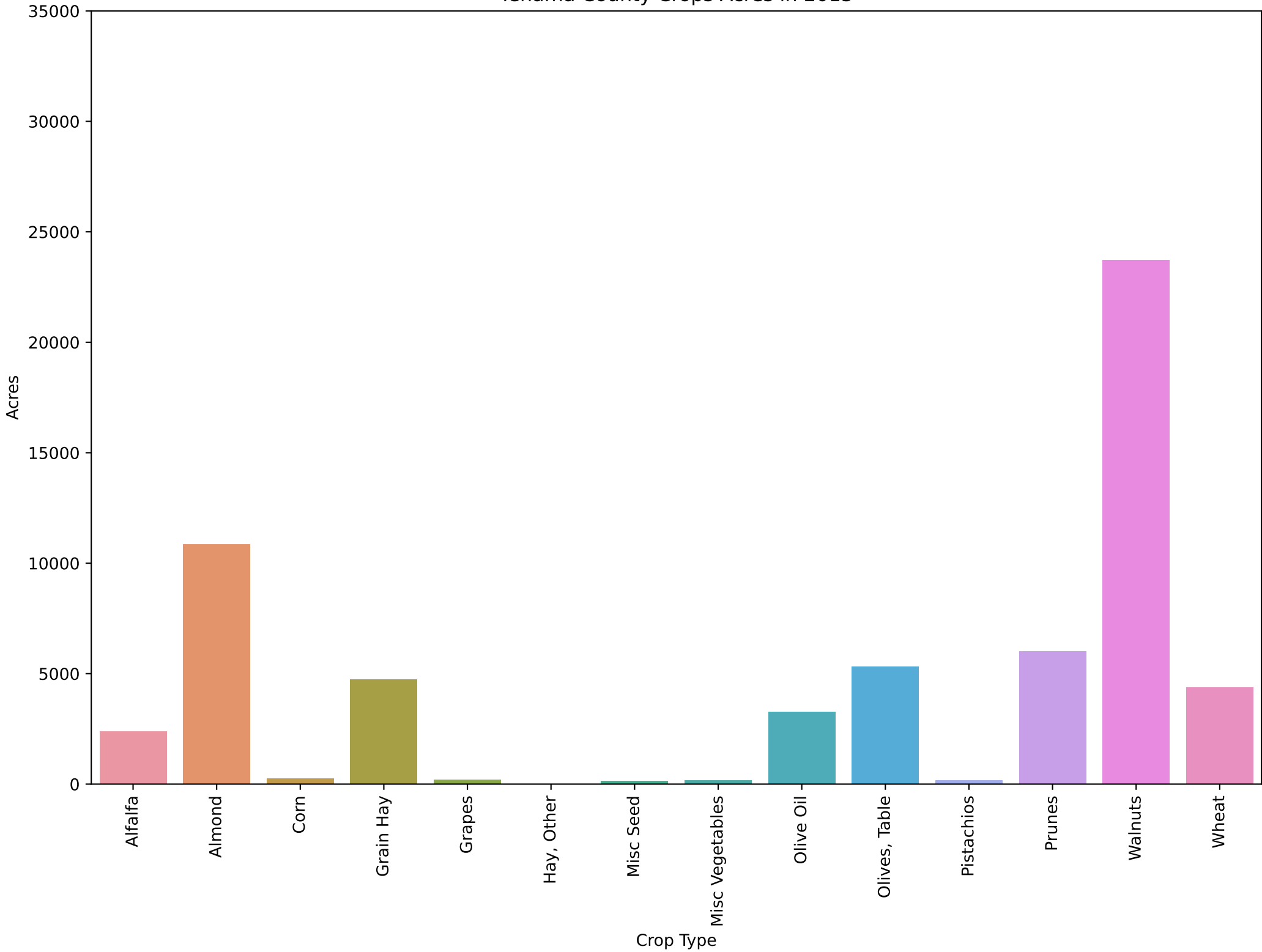
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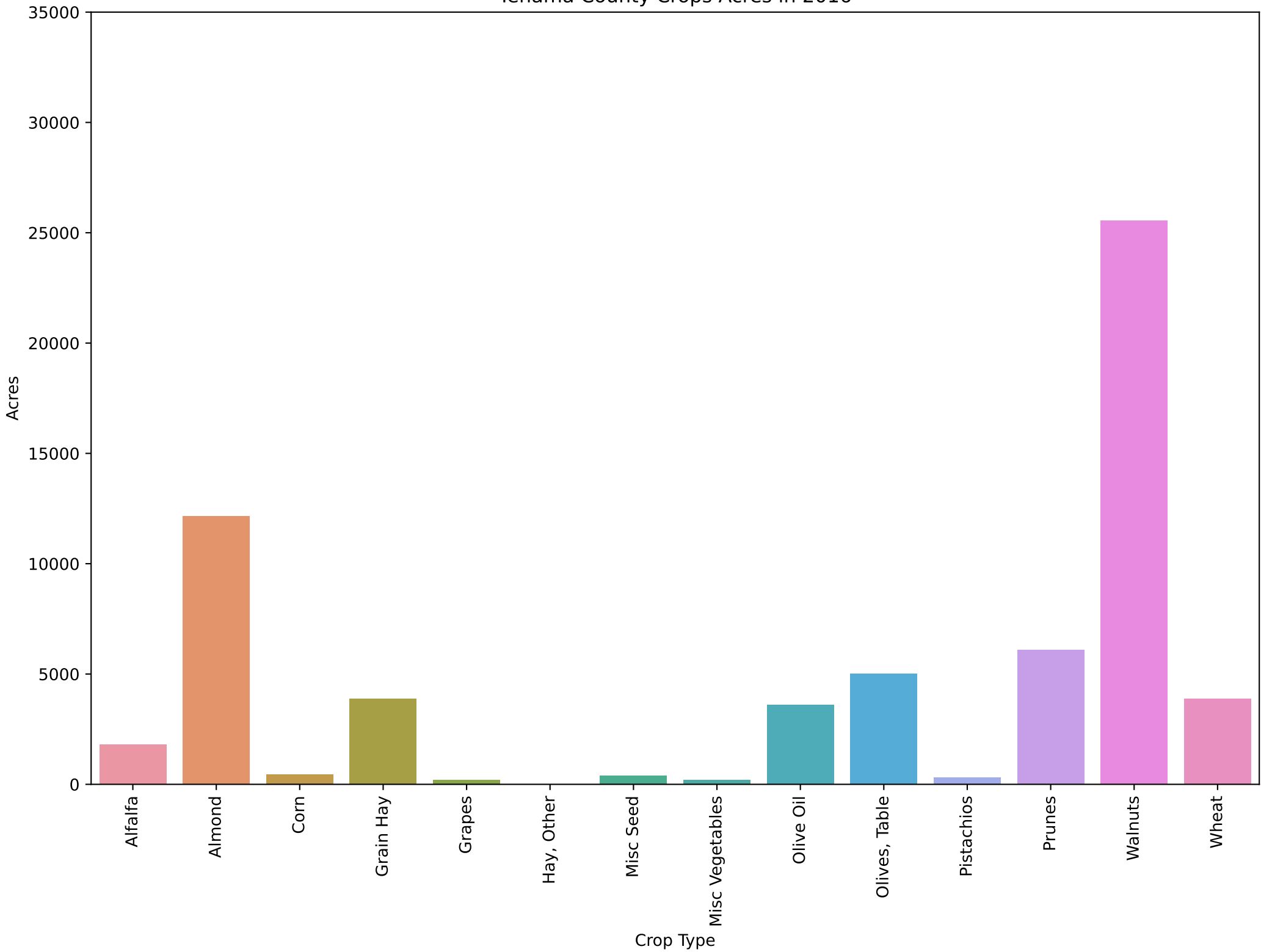
Tehama County Crops Acres in 2014



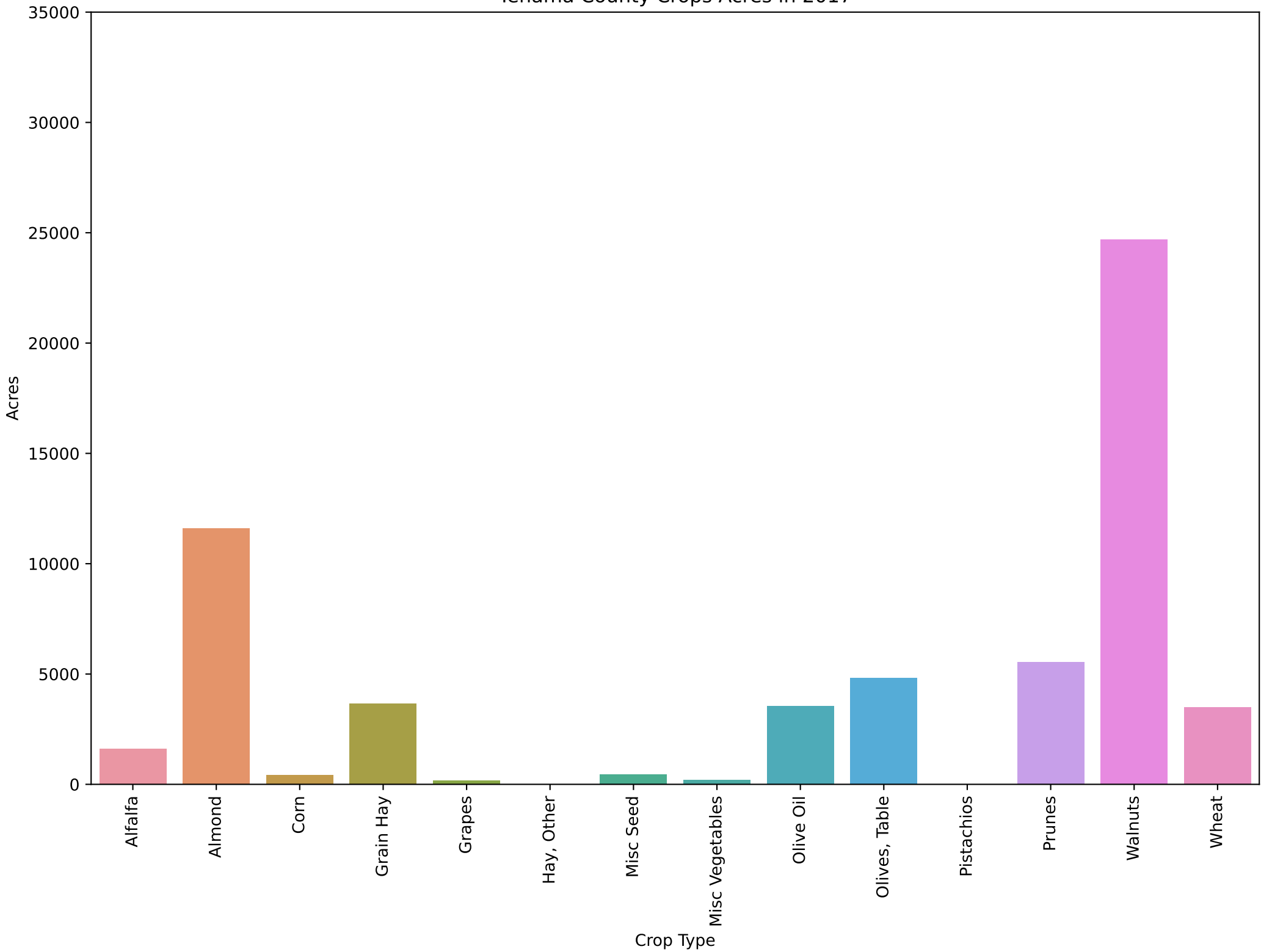
Tehama County Crops Acres in 2015



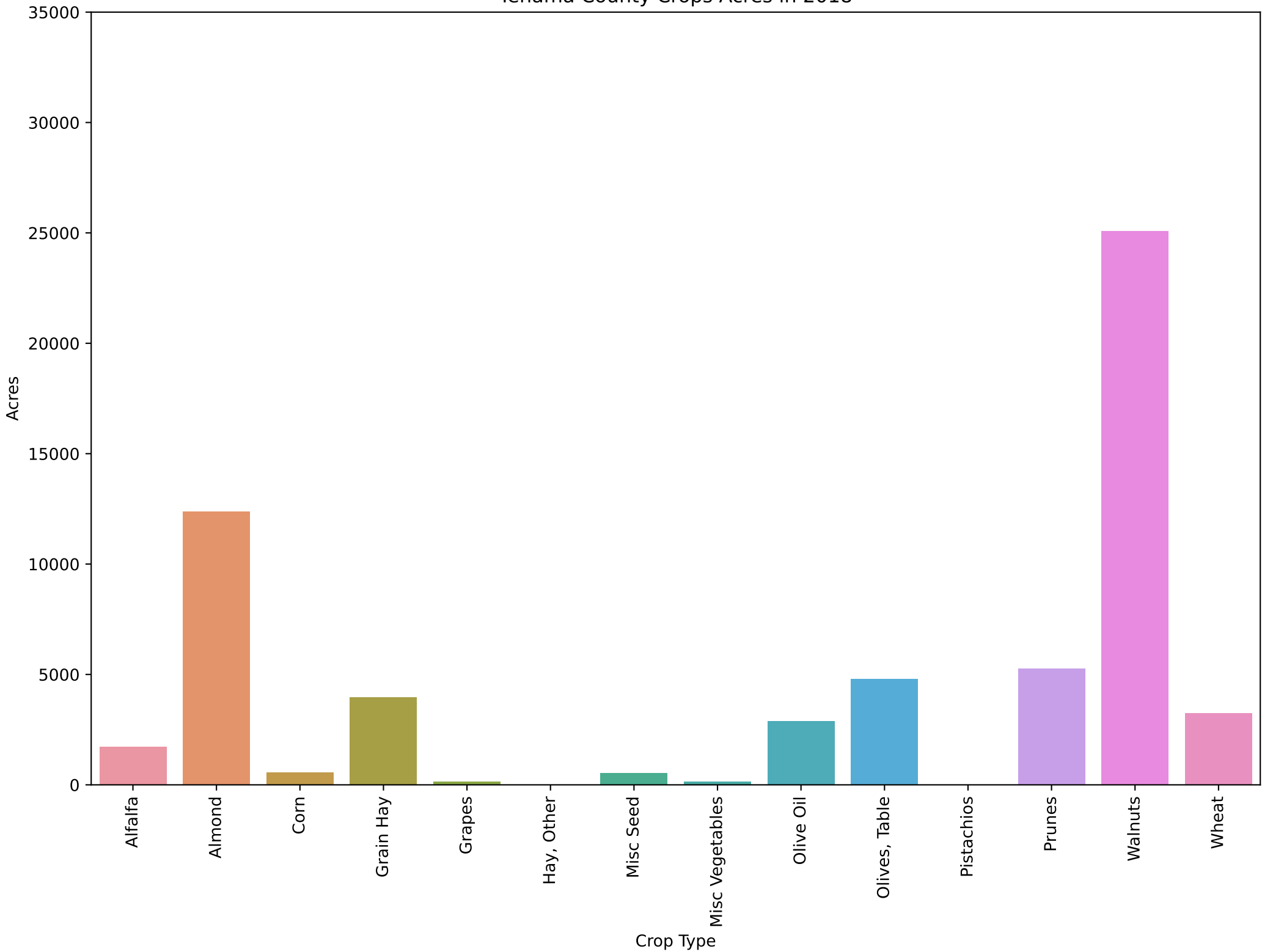
Tehama County Crops Acres in 2016



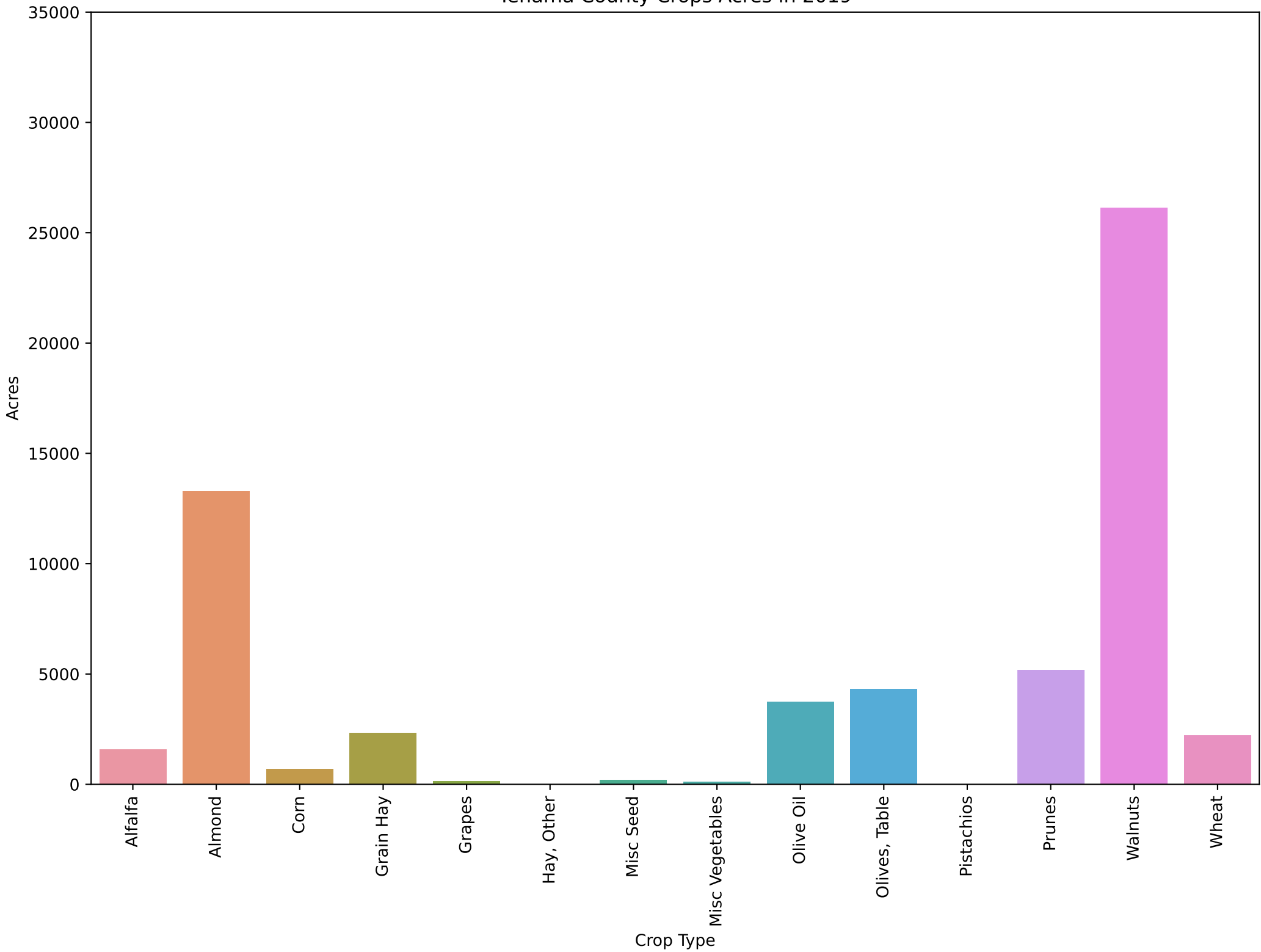
Tehama County Crops Acres in 2017



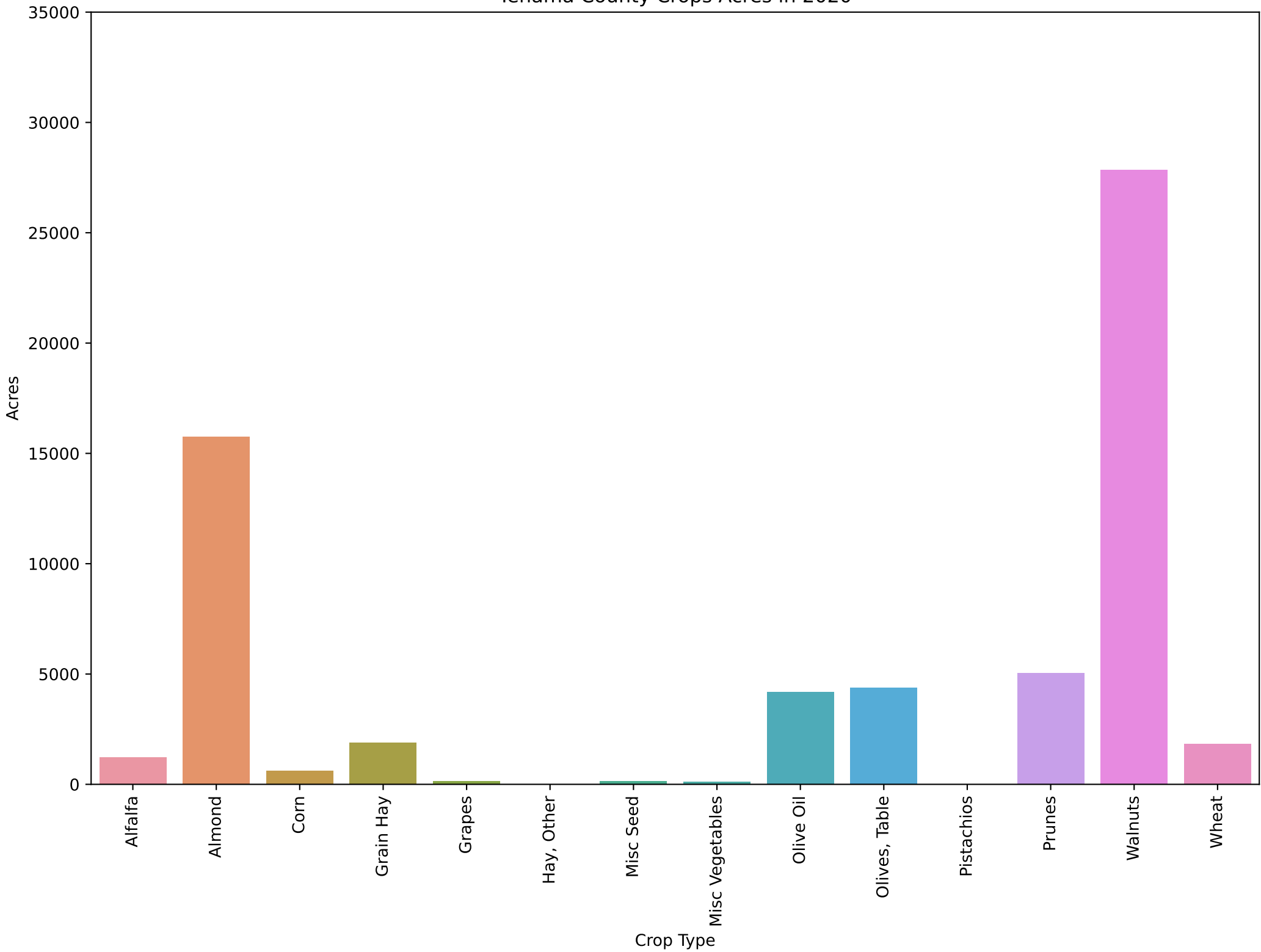
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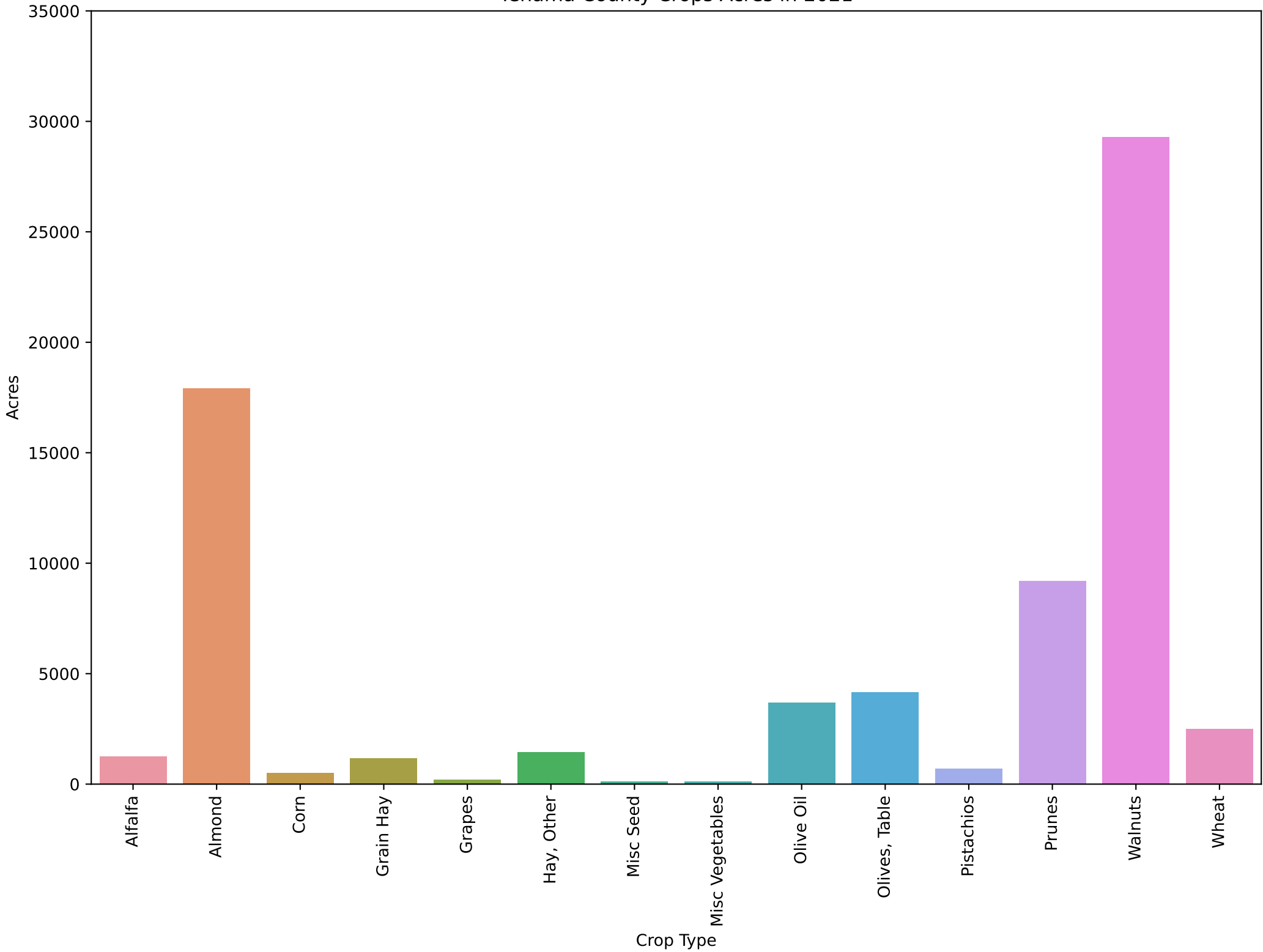
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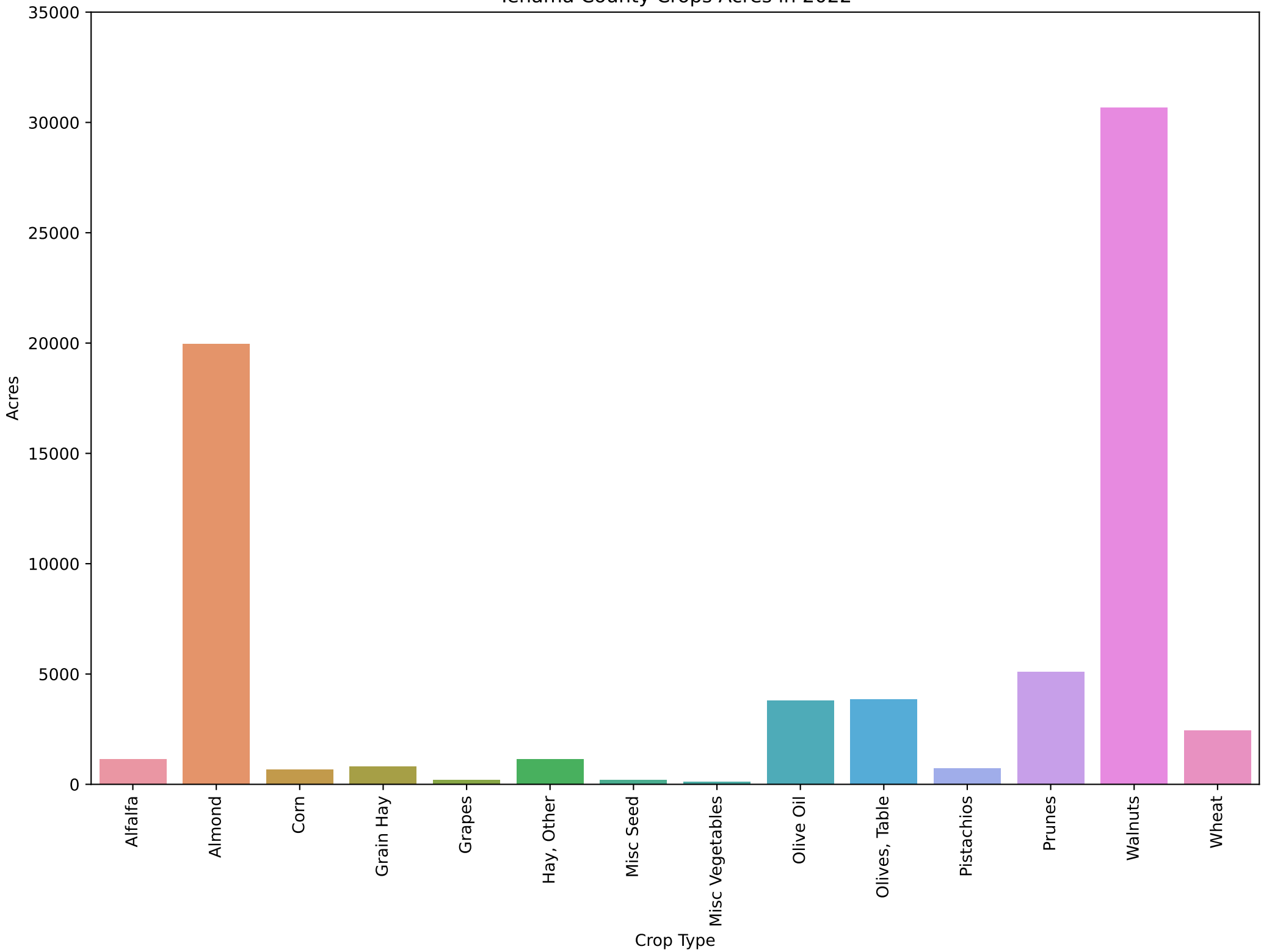
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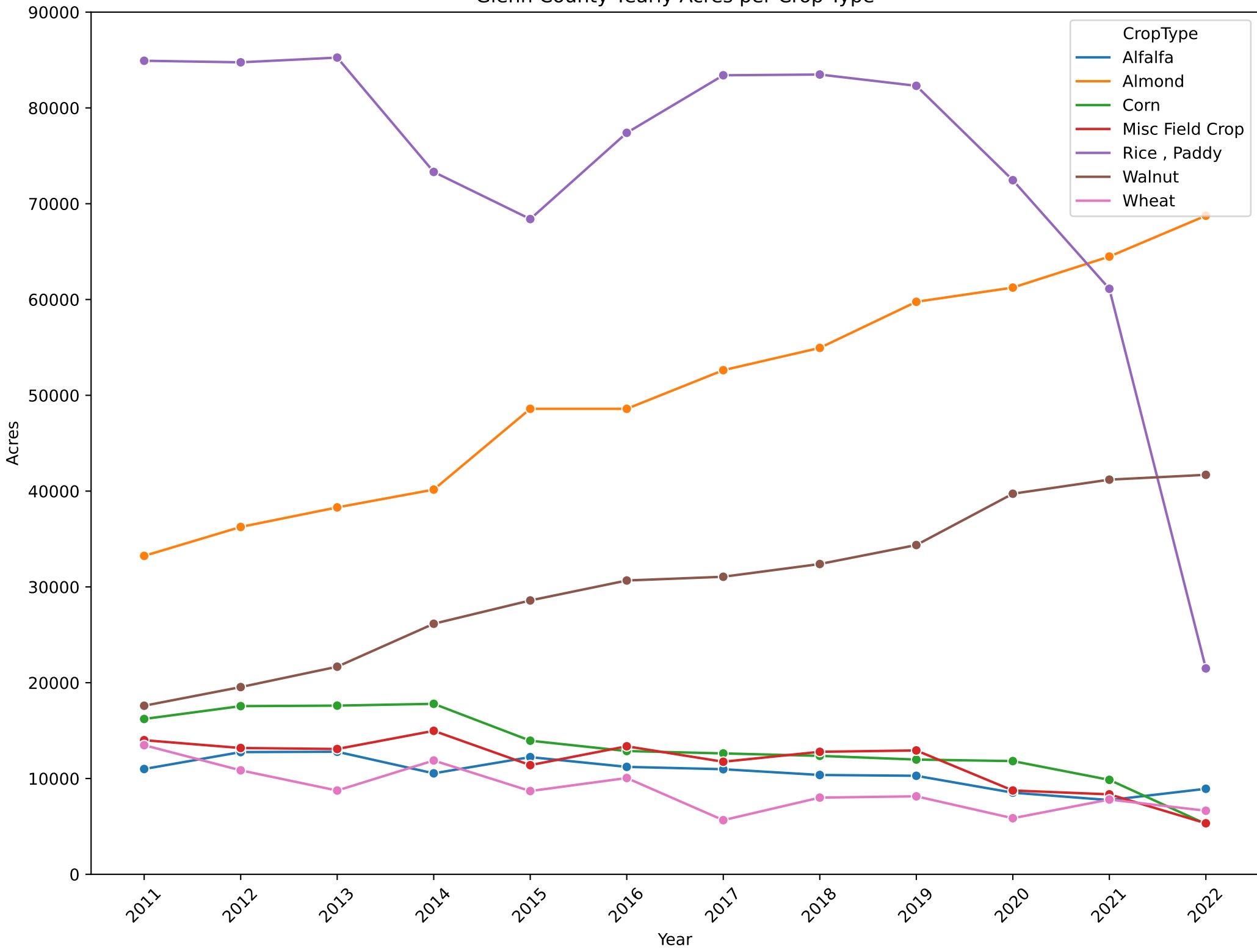
Tehama County Crops Acres in 2021



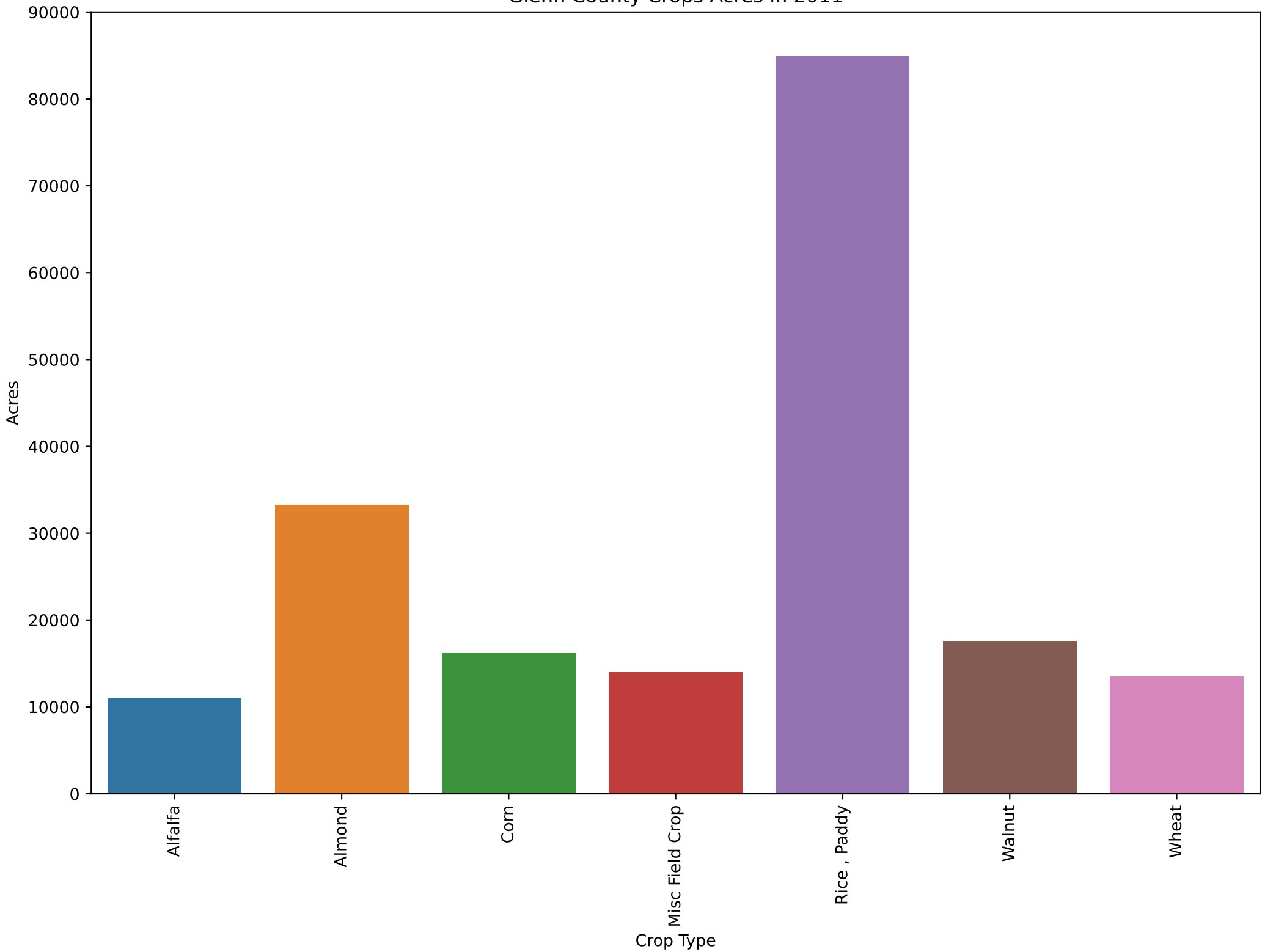
Tehama County Crops Acres in 2022



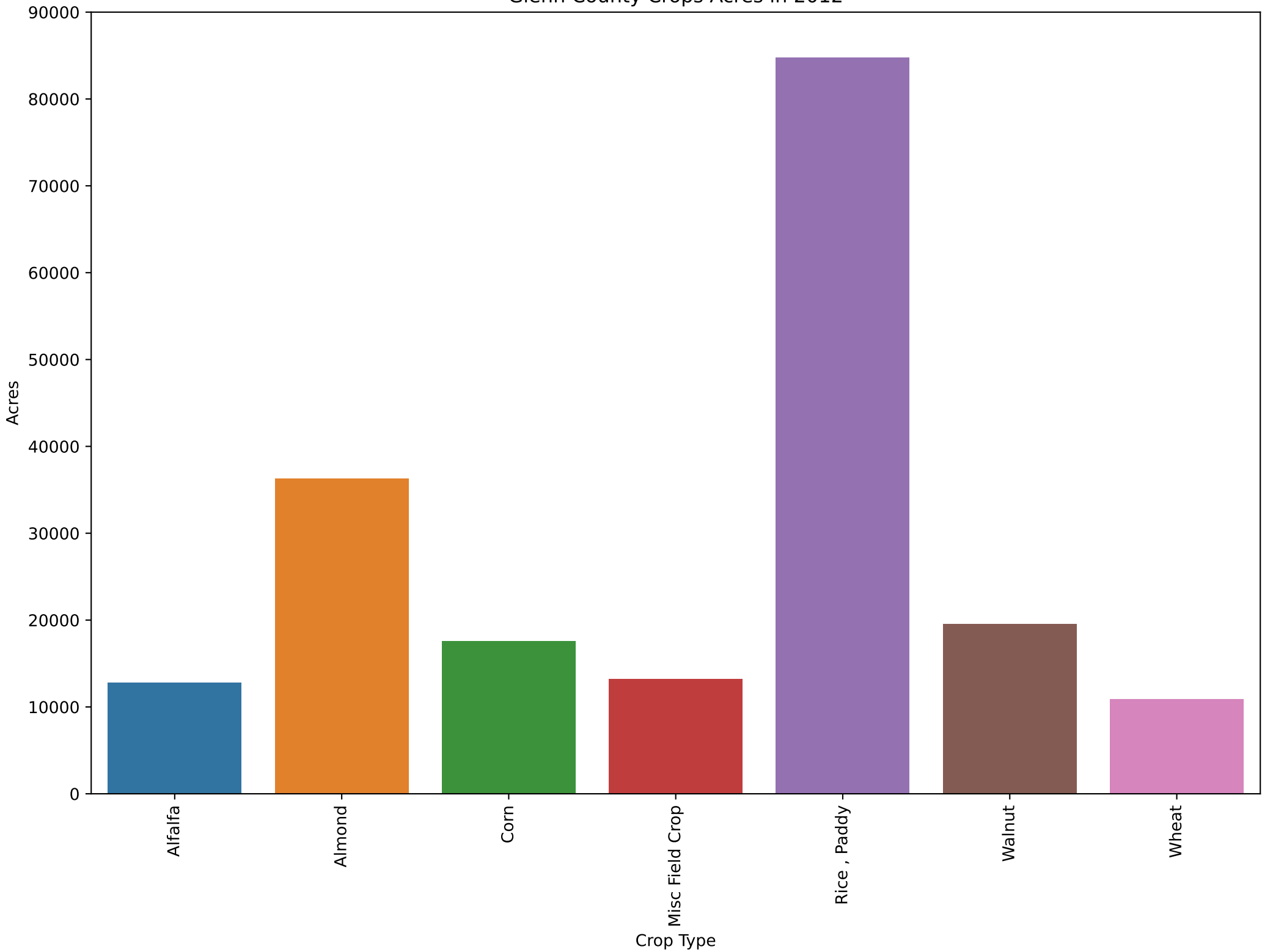
Glenn County Yearly Acres per Crop Type



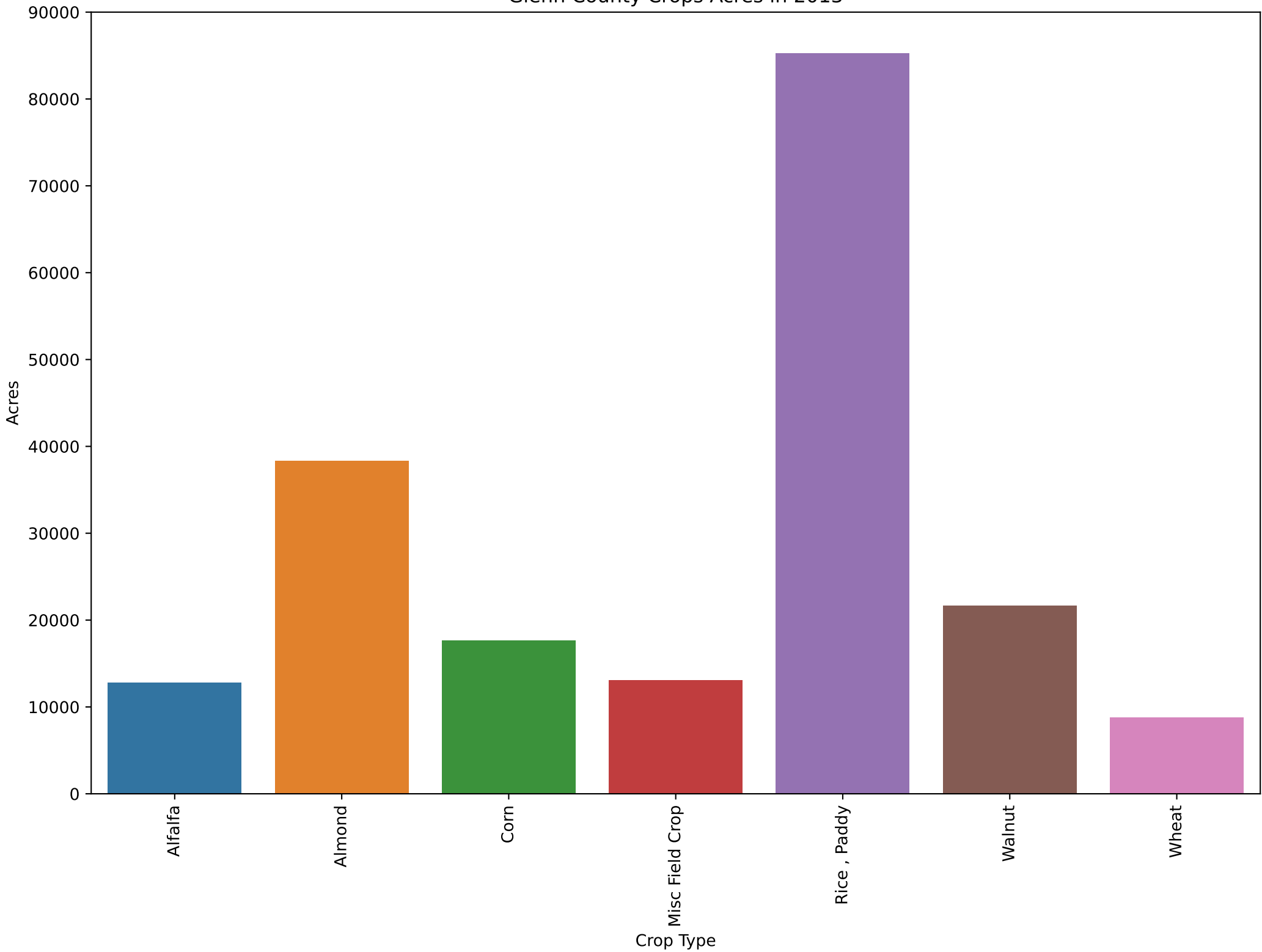
Glenn County Crops Acres in 2011



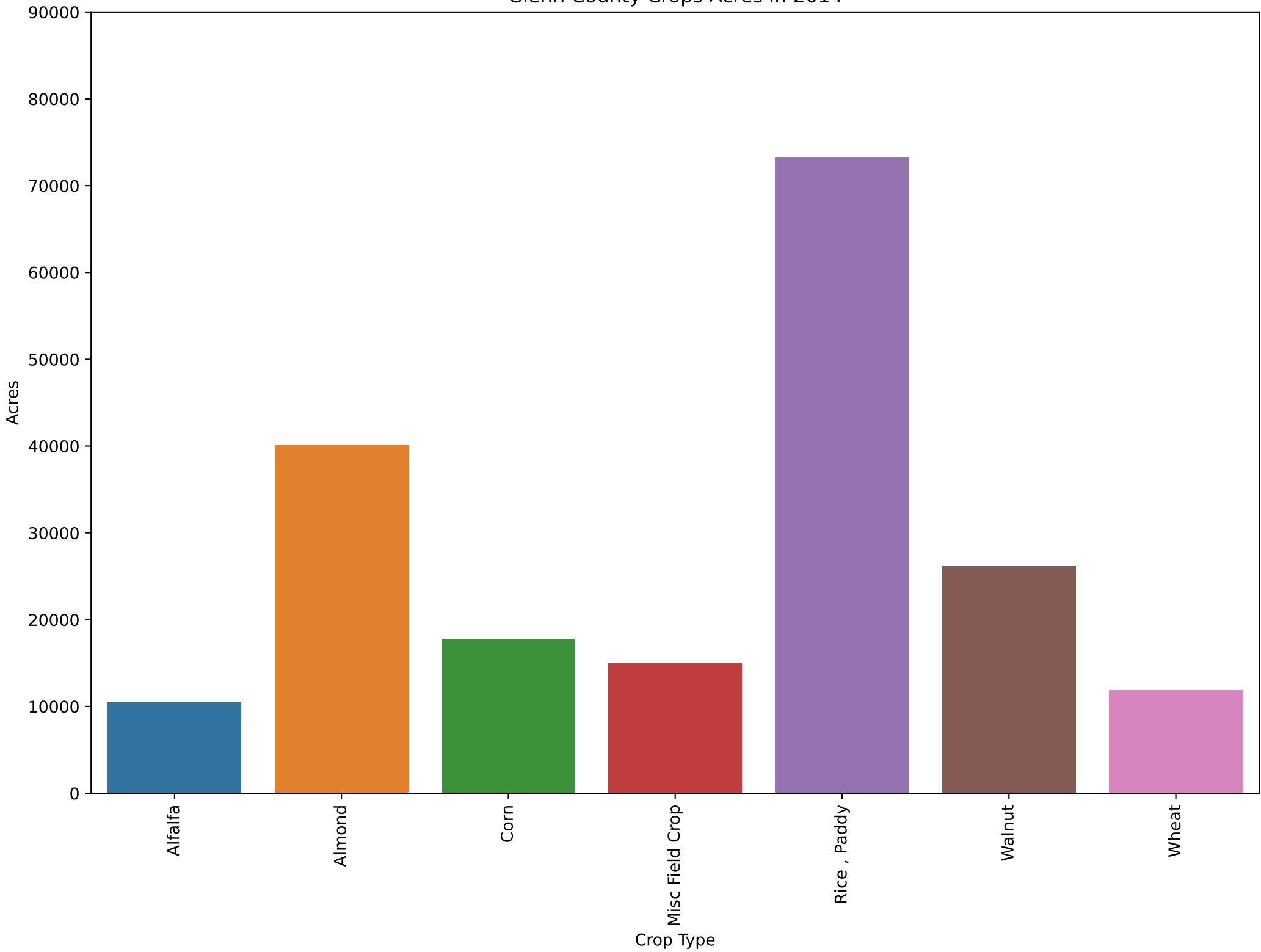
Glenn County Crops Acres in 2012



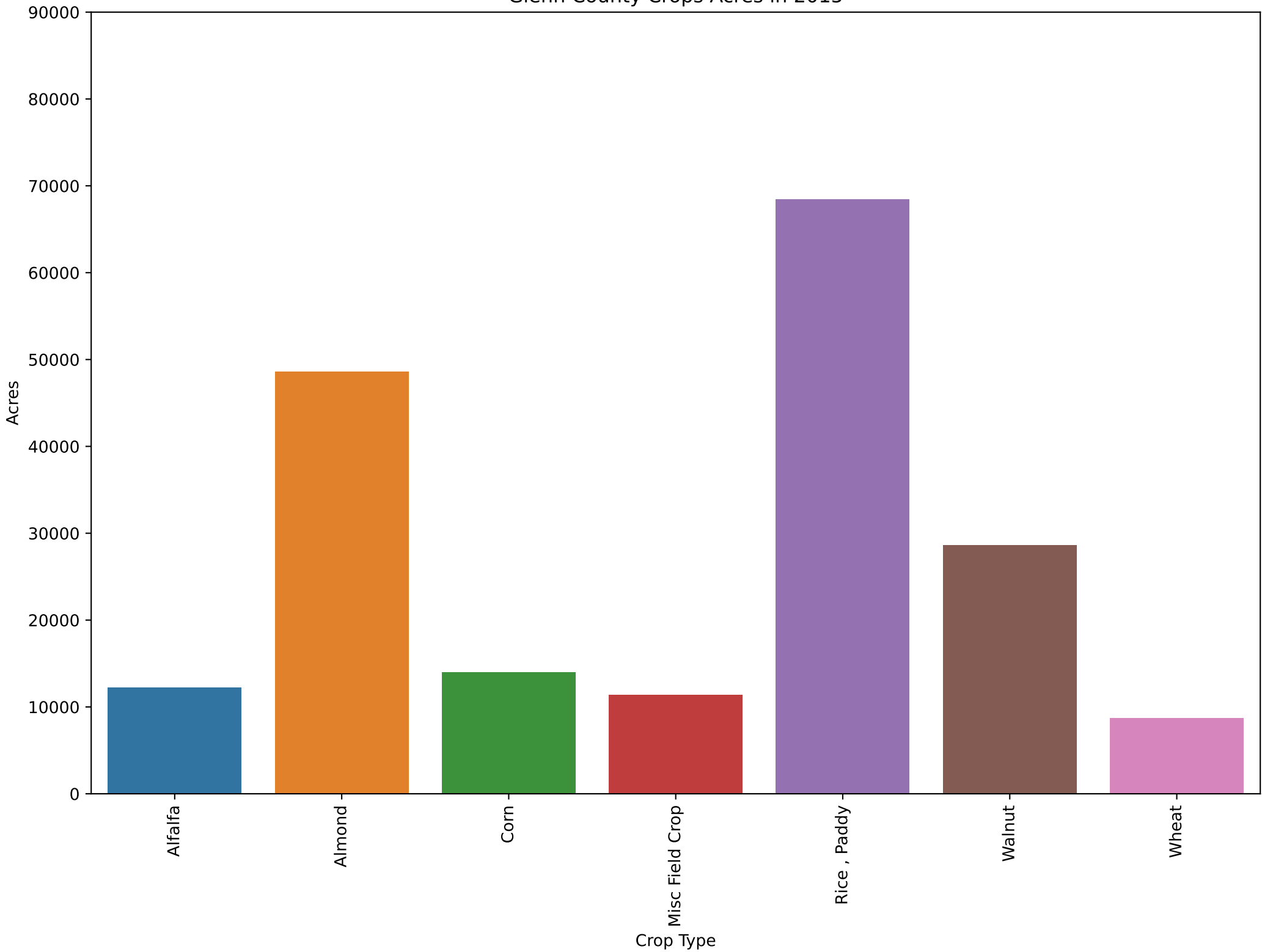
Glenn County Crops Acres in 2013



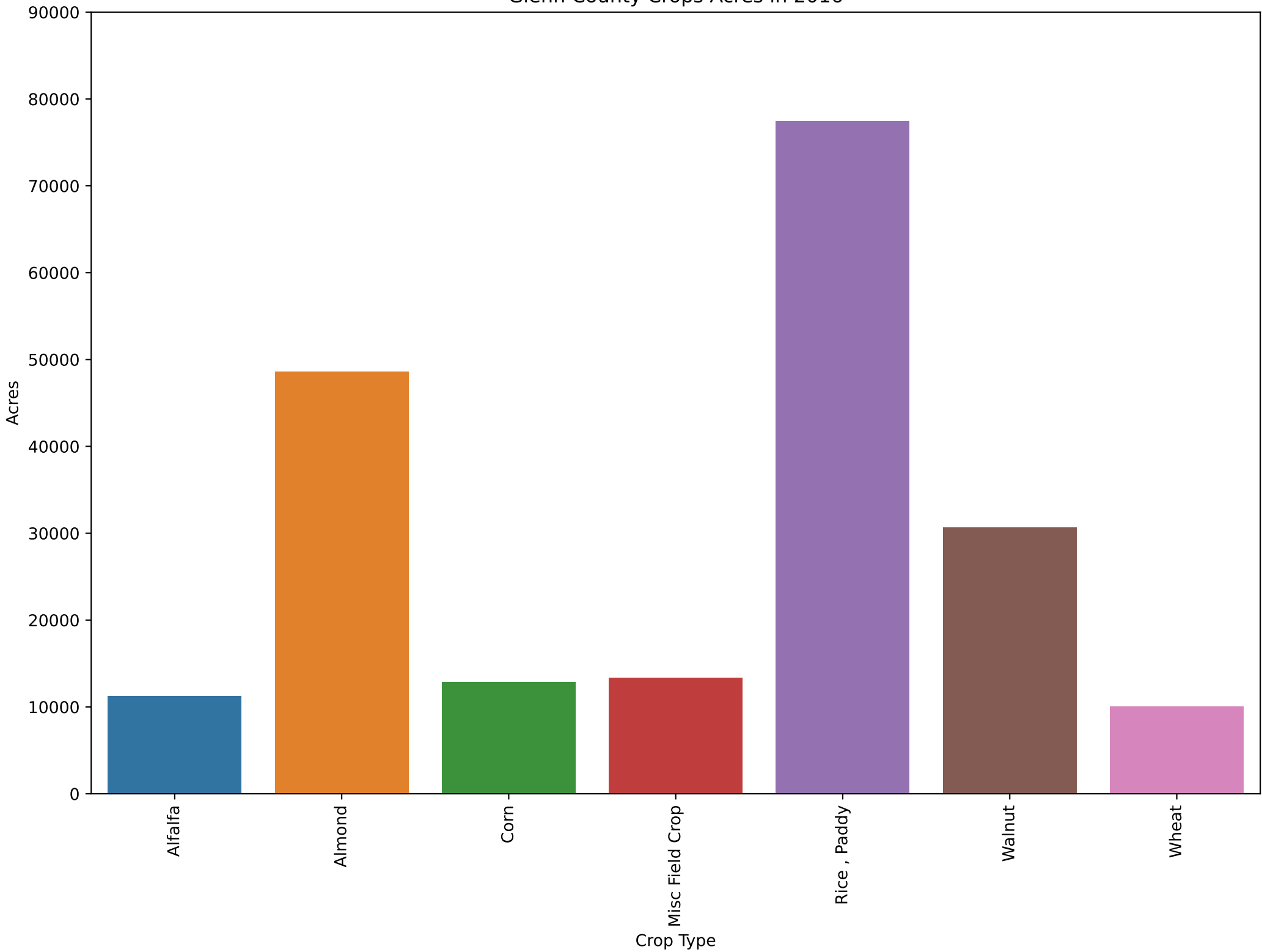
Glenn County Crops Acres in 2014



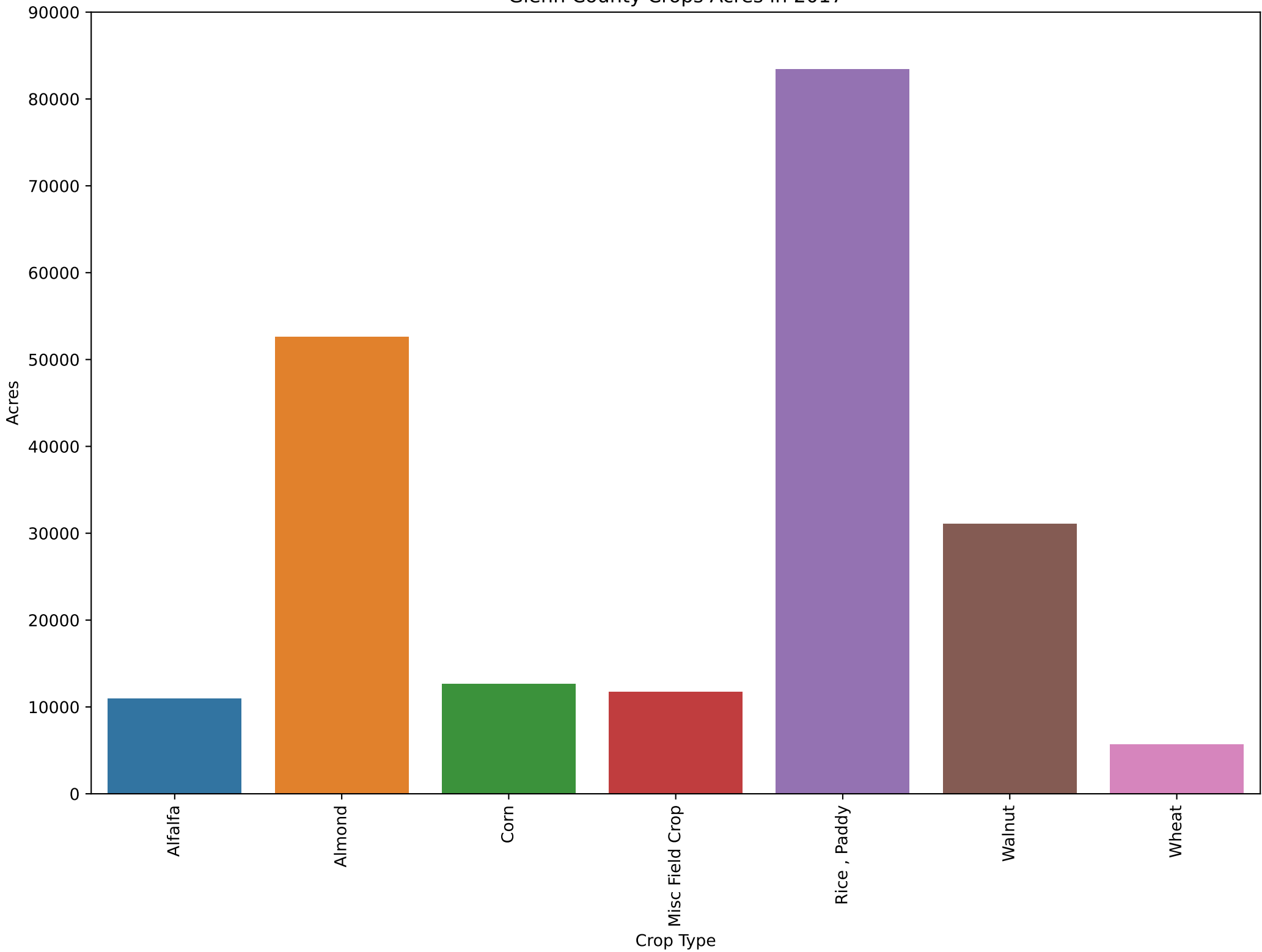
Glenn County Crops Acres in 2015



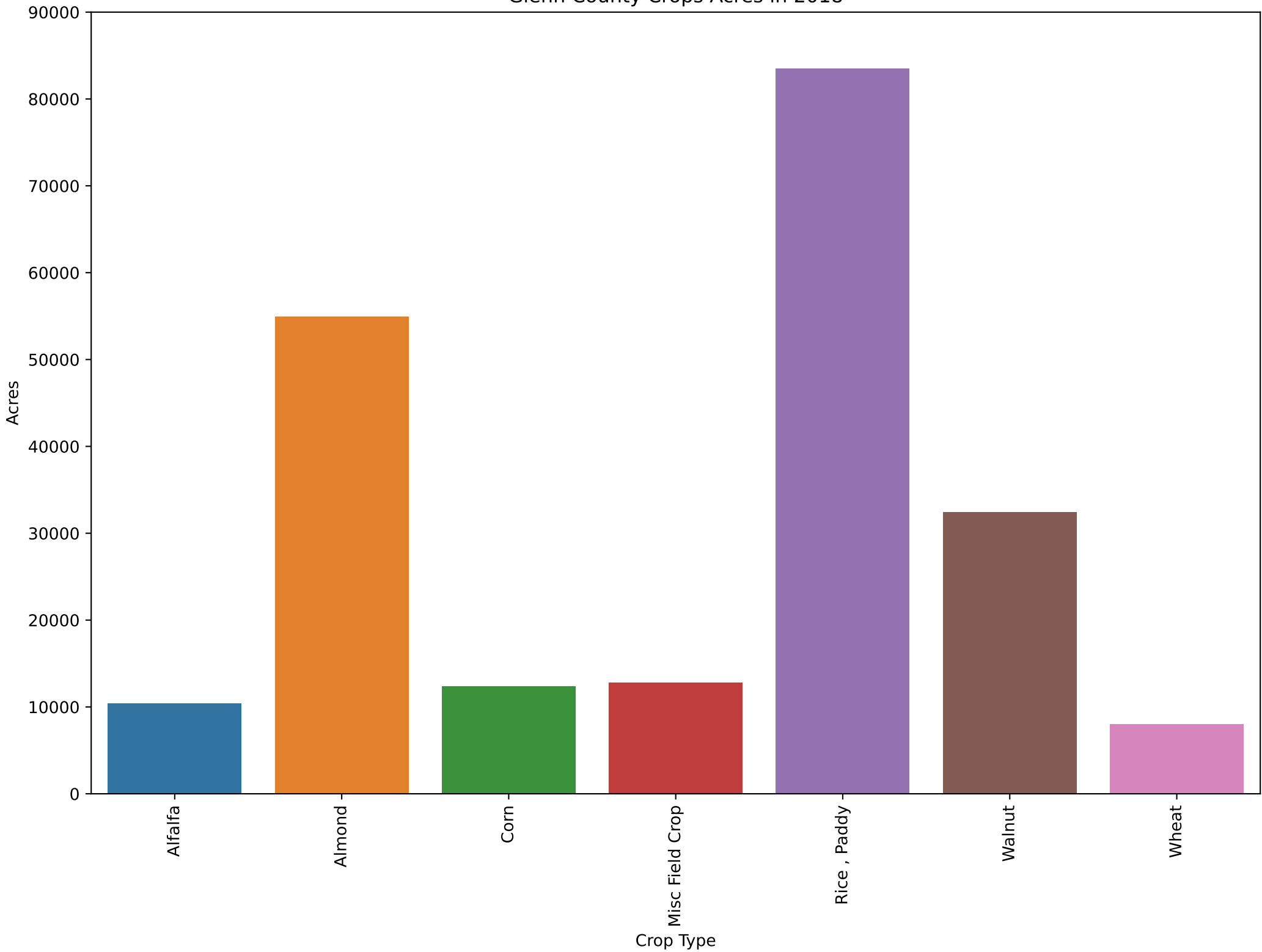
Glenn County Crops Acres in 2016



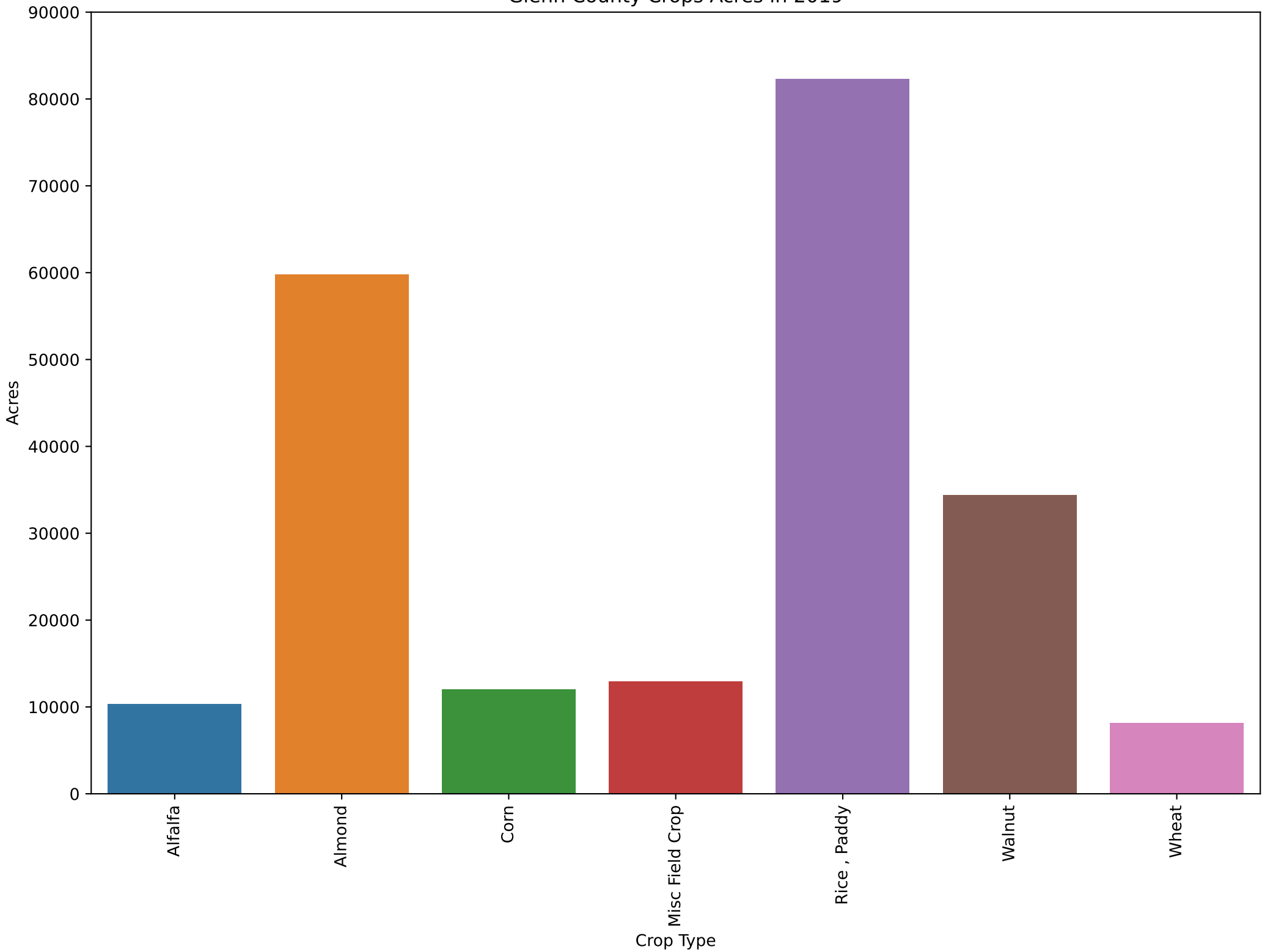
Glenn County Crops Acres in 2017



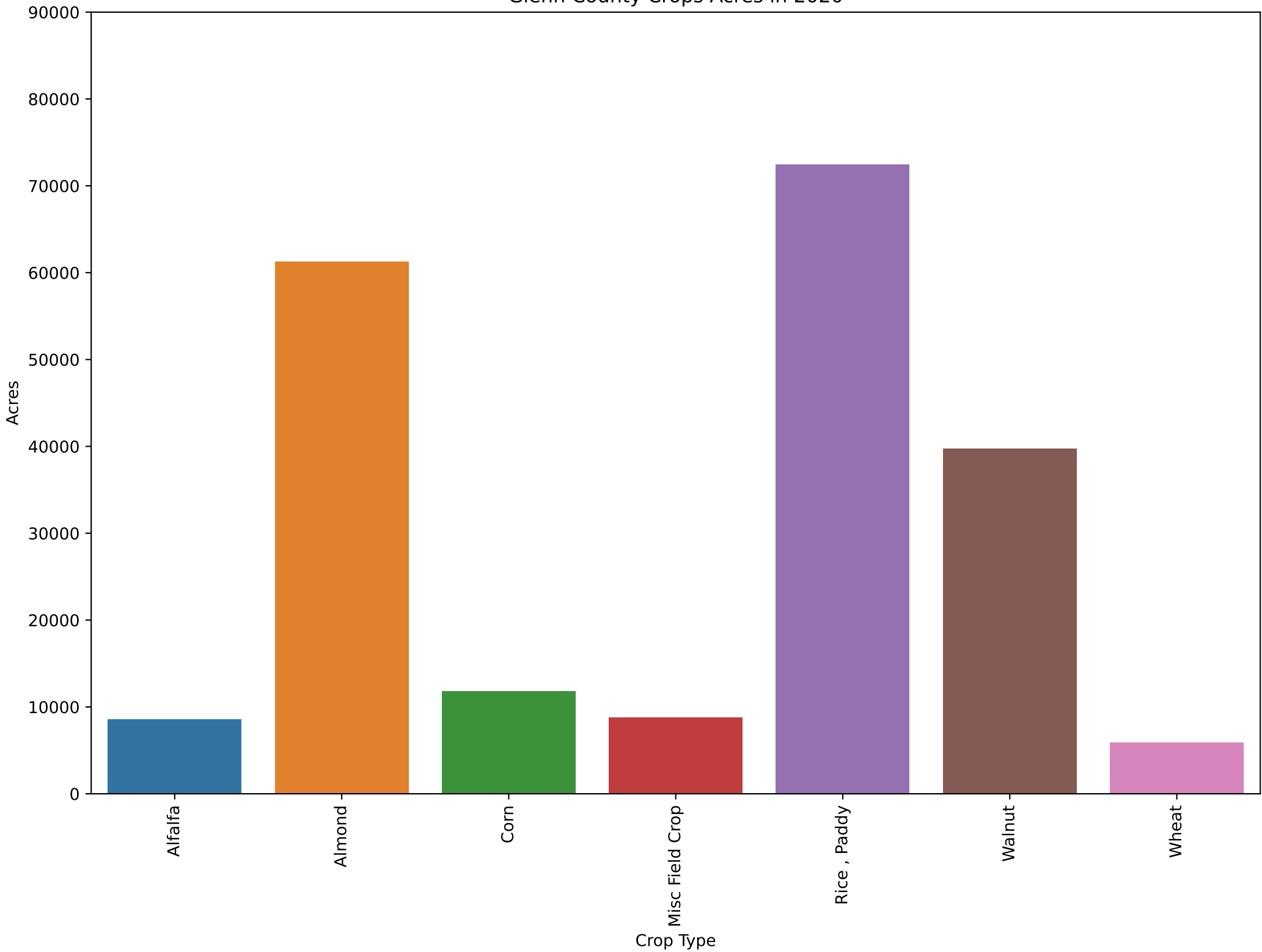
Glenn County Crops Acres in 2018



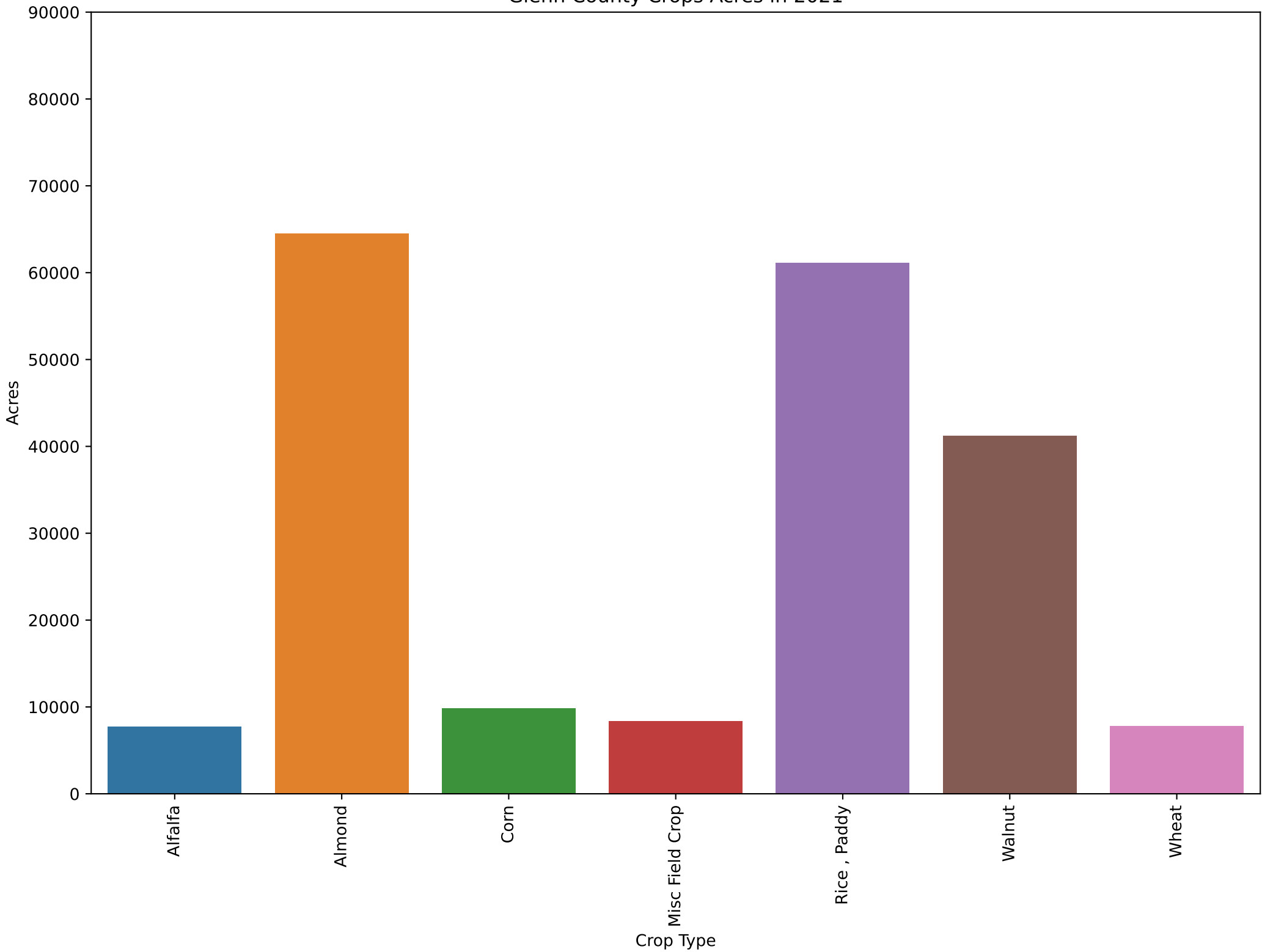
Glenn County Crops Acres in 2019



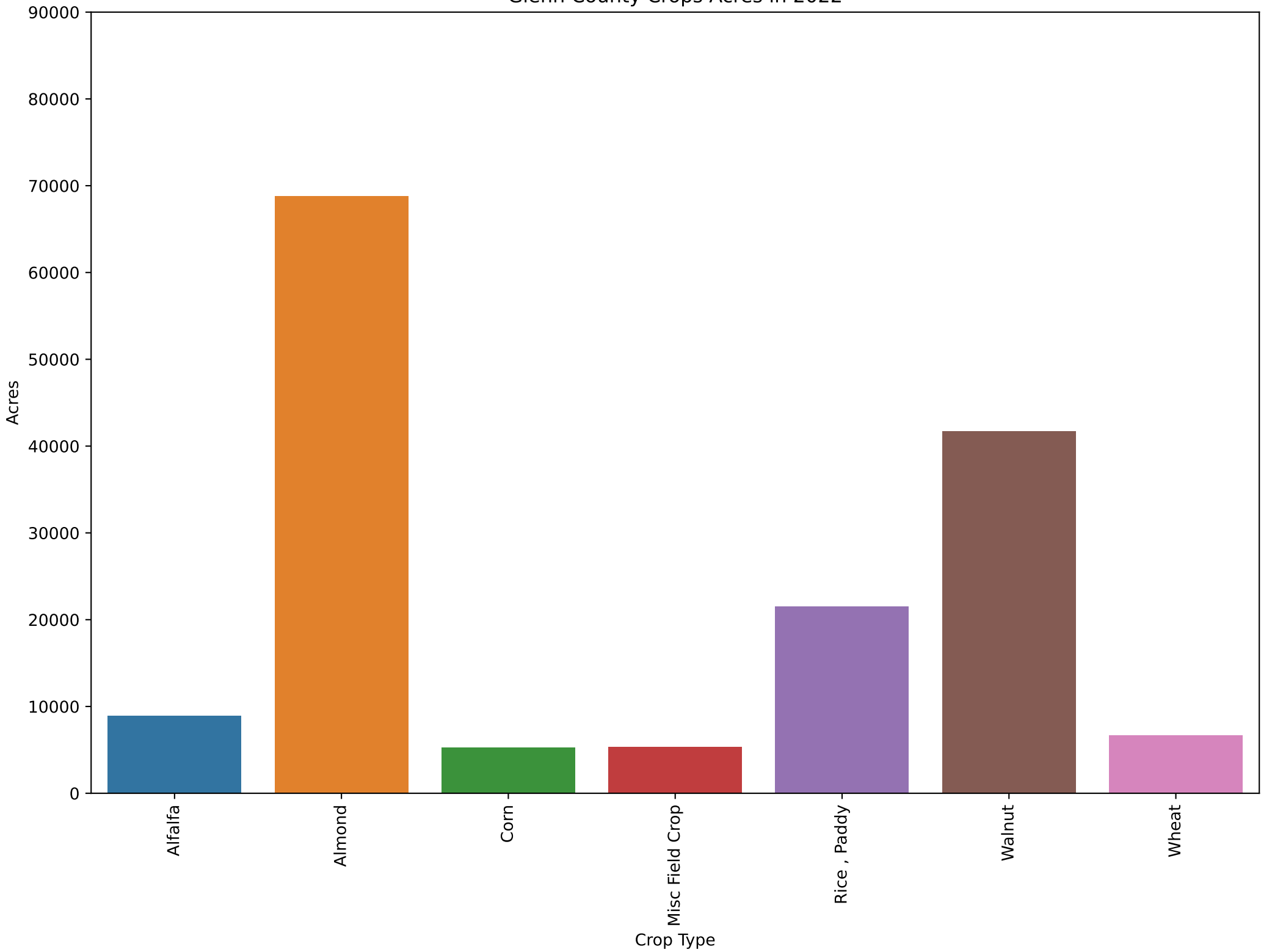
Glenn County Crops Acres in 2020

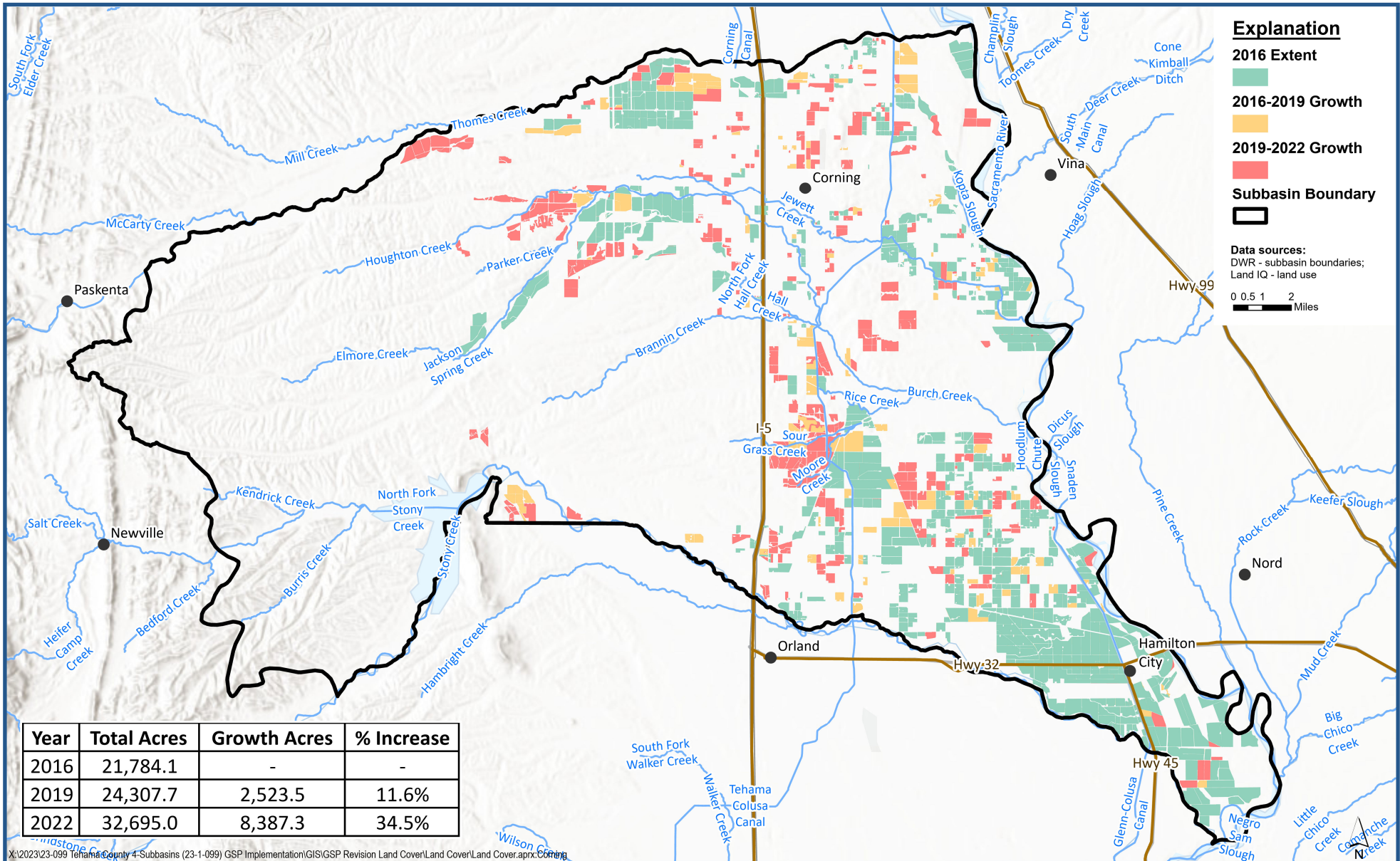


Glenn County Crops Acres in 2021



Glenn County Crops Acres in 2022





Year	Total Acres	Growth Acres	% Increase
2016	21,784.1	-	-
2019	24,307.7	2,523.5	11.6%
2022	32,695.0	8,387.3	34.5%

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Almond and Walnut Areal Extent 2016-2022

Groundwater Sustainability Plan
Corning Subbasin