

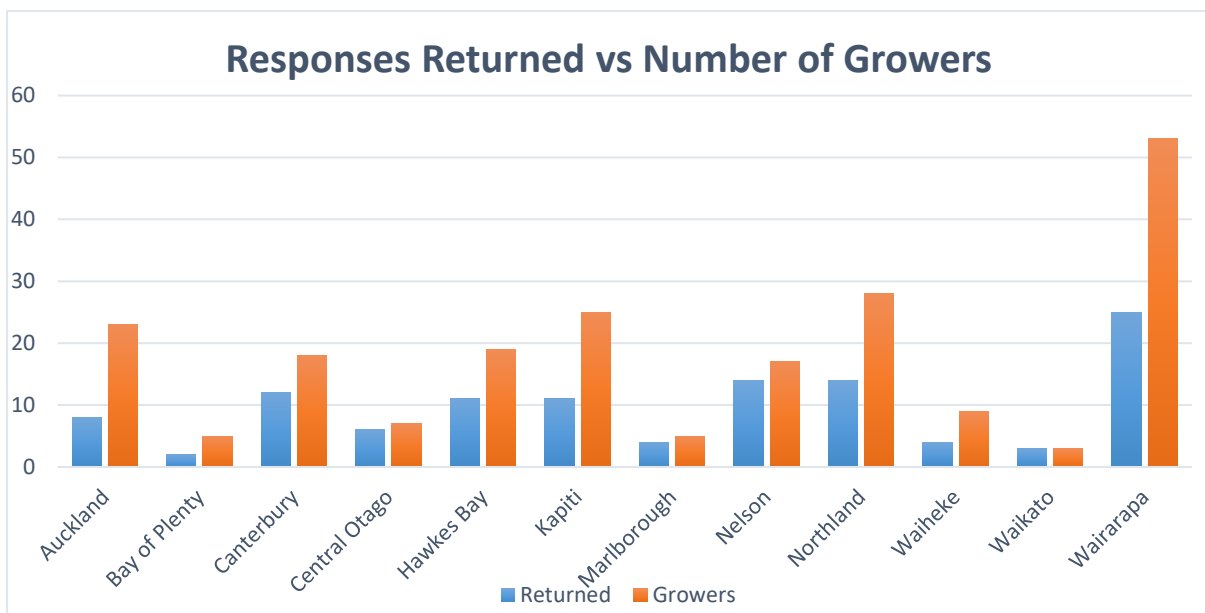
2018 Grove Census Harvest Data

The 2018 harvest year was much improved on 2017 in terms of tonnage harvested and volume of oil produced, however not quite as buoyant as 2017. The overall quality of EVOO produced was significantly improved with 26% of entries in the 2018 NZ Extra Virgin Olive Oil Awards receiving Gold medals and 71% receiving Silver (2017 was 20% and 45% respectively).

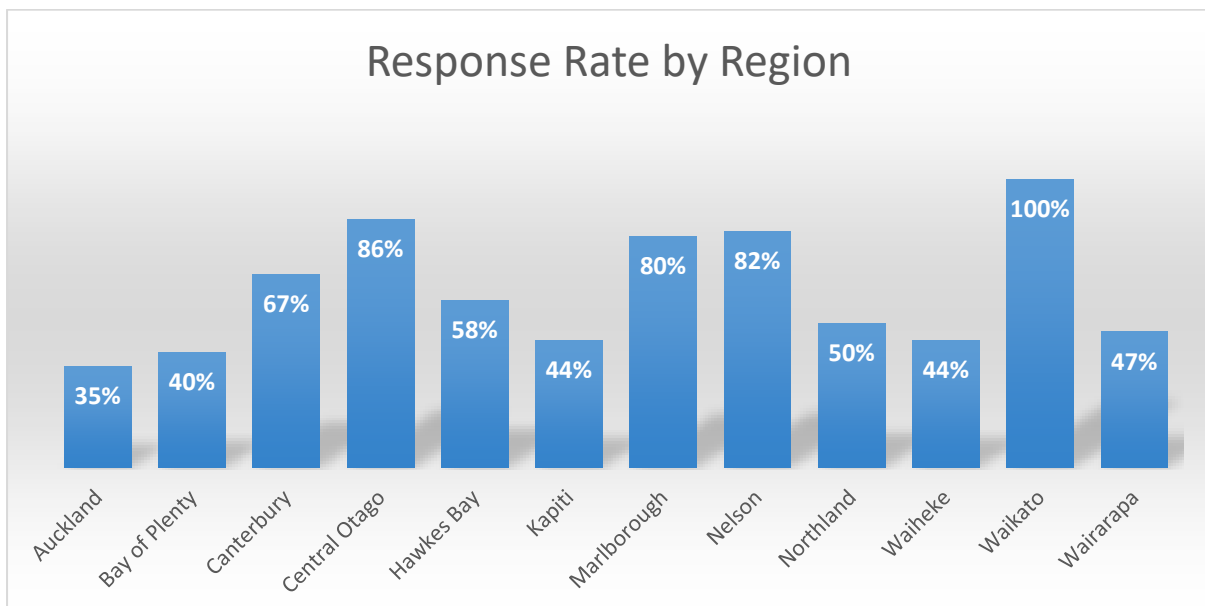
Responses by Region

The 2018 harvest census had a response rate of 59% (114 out of 193 groves) compared with 61% in 2017. Only one of the four super groves (Hawke’s Bay) responded, these being in Auckland, Hawke’s Bay (2) and Nelson. These groves range from 9,000 to 40,000 trees and total more than 94,000 trees. This is disappointing as collectively the super groves represent 33% of the trees in the database and therefore could impact significantly on the reports produced. However on a positive note, this report represents the majority of Olives New Zealand members.

The response rate vs number of growers is shown on the following chart.



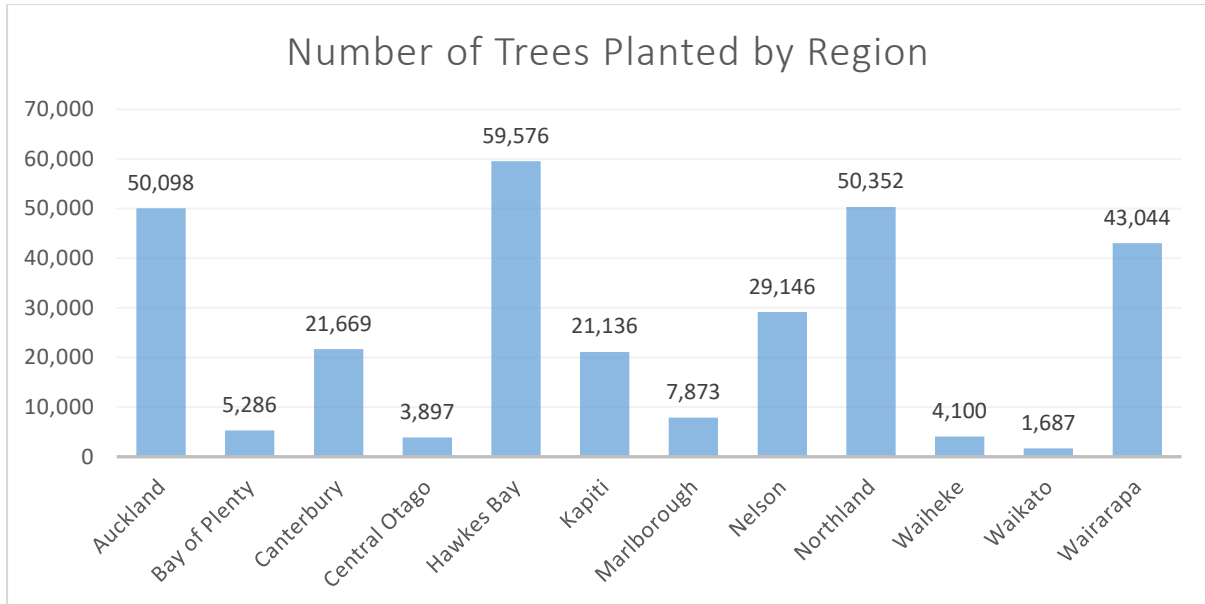
The response rate by region is shown on the following chart.



Trees Planted by Region

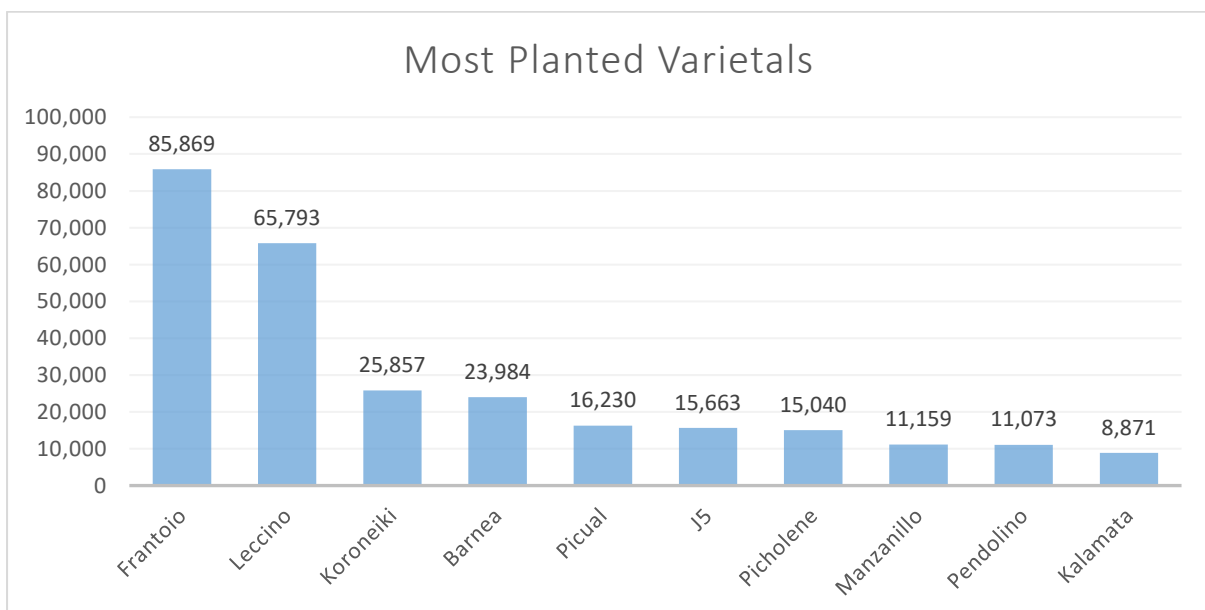
During 2018 there was conservative new plantings but with more removals reported.

There is now a total of 279, 539 trees recorded in the database compared with a total of 289,465 in 2017. Hawke's Bay is the region with the largest number of trees, followed by Northland, Auckland and Wairarapa. There is now a much more even spread across these four regions. The following chart shows total trees recorded by region.



Most Planted Varietals

Frantoio is the most planted varietal across the country, followed by Leccino. The following chart shows the ten most planted varietals.

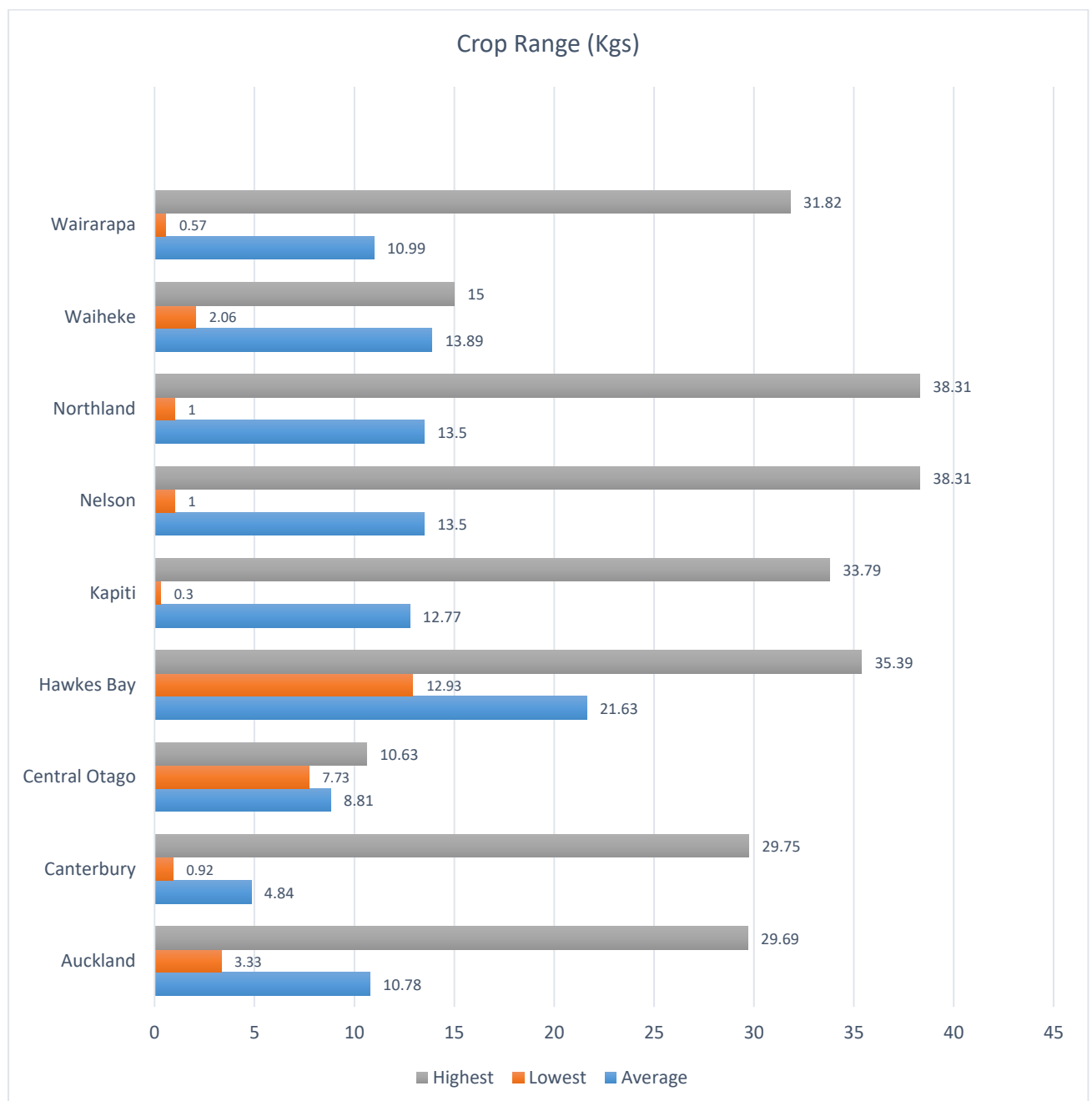


Crop by Region

There was significant variation in the crops harvested in 2018 within all regions when looking at the lowest and highest crop loads. However only three regions averaged less than 10kg per tree and the other six regions averaging more than 10Kg per tree. The highest average was Hawke’s Bay with 21.63Kg, with the national average being 13.73Kg per tree. Note that this relates to crops by variety and does not include combined harvest data.

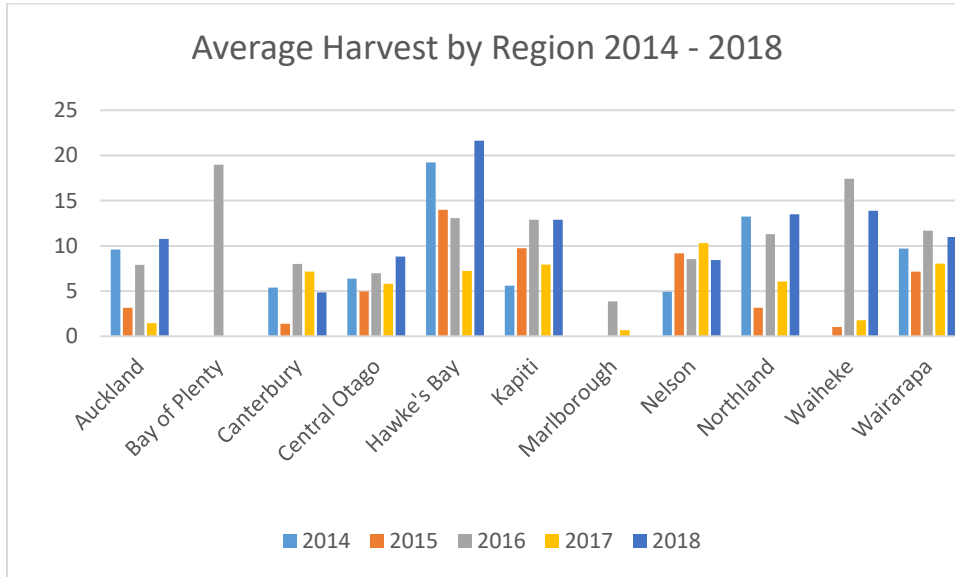
The regions that produced individual crops that exceeded 10kg per tree were; Auckland, Hawke’s Bay, Kapiti, Northland, Waiheke Island and Wairarapa.

The following is based on the data provided by members and reflects harvest reported by best and lowest performing variety by region and also average.



Average Crop 2014 - 2018

Three regions showed a 'best ever' average crop harvested compared to previous years; Auckland, Central Otago and Hawke's Bay. For most other regions it is apparent from the following chart that 2018 was still a good harvest year for all regions except Canterbury. Canterbury, while crop load was good, were affected by frost and extreme cold impacting on fruit able to be harvested.



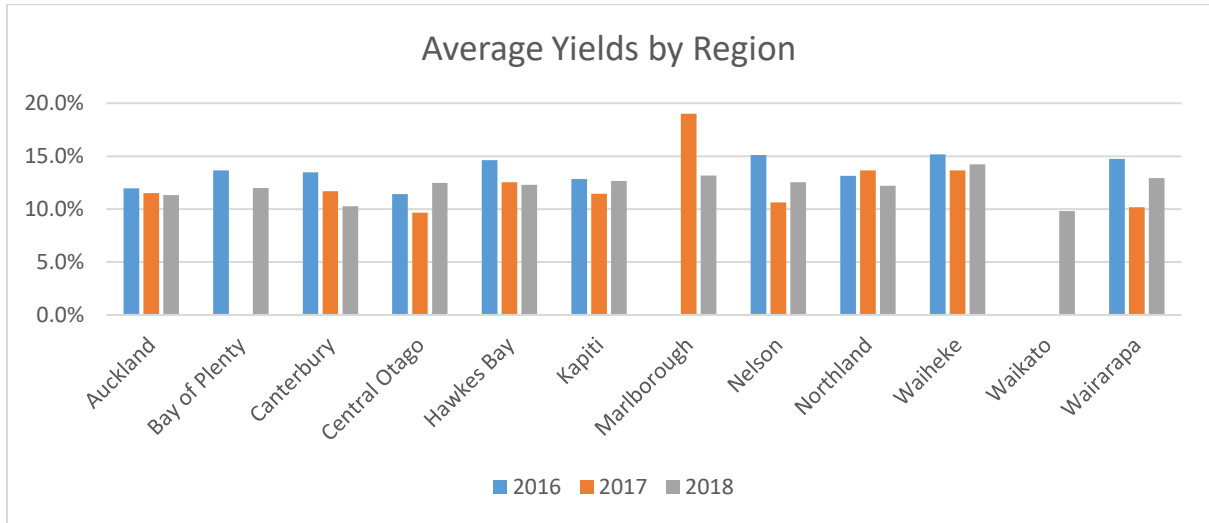
Top Individual Crop by Region

Best cropping variety across regions in 2018 has been varied. Overall the highest was Verdale in Nelson followed by Frantoio in Northland.

Region	2015		2016		2017		2018	
	Kgs	Variety	Kgs	Variety	Kgs	Variety	Kgs	Variety
Auckland	8.43	Leccino	16.89	Frantoio	3.19	Pendolino	29.69	Nocellara
Canterbury	3.05	Pendolino	18.89	Nabali Mouhasen	17.50	Picual	29.75	Leccino
Central Otago	9.67	Leccino	8.33	Leccino	7.01	Leccino	10.63	Leccino
Hawkes Bay	21.62	Leccino	34.22	Picual	17.09	Leccino	35.39	Picual
Kapiti	22.81	Leccino	31.32	Picual	17.71	Frantoio	33.79	Picual
Marlborough			6.67	Minerva	0.67	Minerva	7.29	Grove Mix
Nelson	22.67	Picual	22.61	Picual	29.63	Picual	48.28	Verdale
Northland	12.00	Frantoio	37.03	J5	11.25	Frantoio	38.31	Frantoio
Waiheke	1.27	Picual	30.00	Koroneiki	4.83	Verdale	15	Manzanilla
Wairarapa	22.08	Picual	32.33	Picual	31.59	Manzanillo	31.82	Picholene

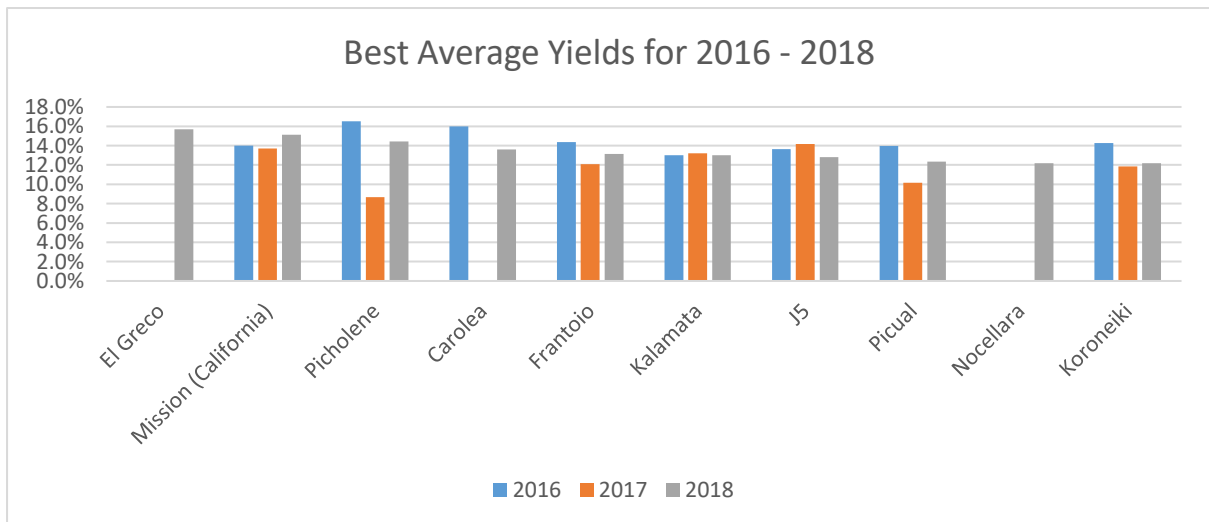
Average Oil Yield by Region

Oil yield percentage in 2018 was fairly typical across most regions. The national average was 12.29% compared with 11.38% in 2017.



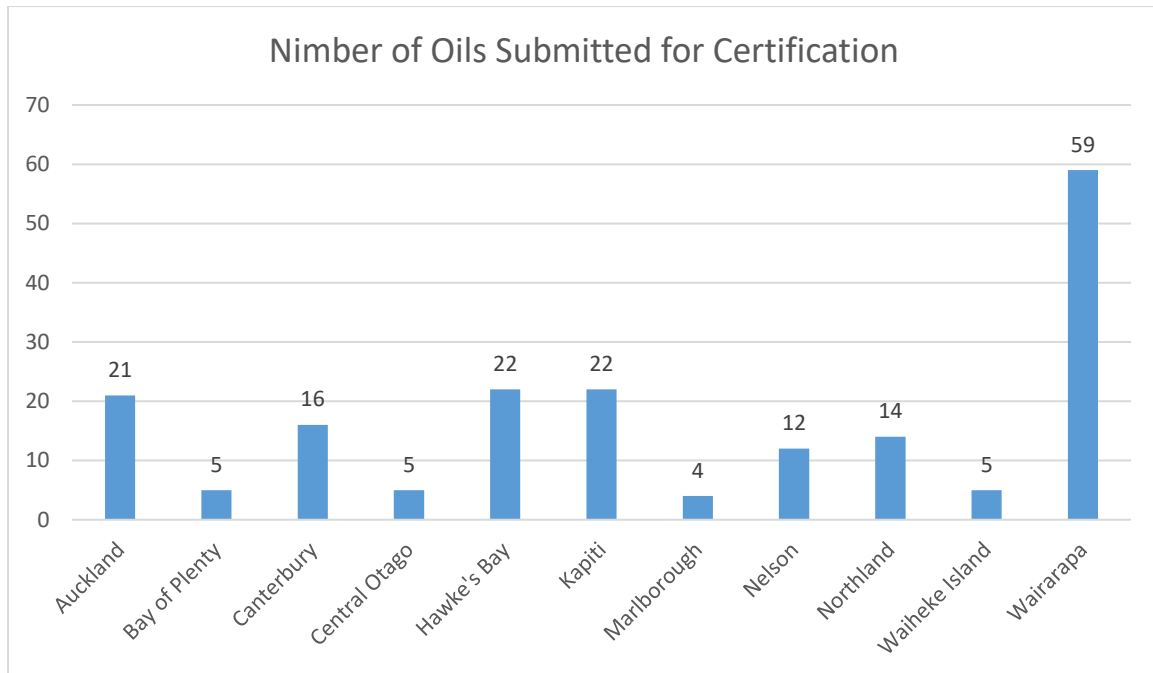
Best Average Yield by Variety

The average oil yield of the most planted varieties in 2018 was similar to previous years. The highest average yield was El Greco at 15.7% and the lowest average yield were Nocellara and Koroneiki at 12.7%.



Certification Summary Data

Some 185 oils were submitted for certification in 2018 with three not meeting EVOO classification. The following chart shows the number of oils submitted for certification by region.



The overall range and average for all certification measures in 2018 were as follows.

2018 EVOO CERTIFICATION DATA SUMMARY			
CHEMICAL ASSESSMENT	Lowest	Highest	Average
Free Fatty Acid	0.10	0.20	
Peroxide Value	4.00	13.00	5.56
Polyphenol Content	<50	509	169
UV Absorption			
Delta K	< 0.01	< 0.01	< 0.01
232 Nm	1.3	2.47	1.55
268 Nm	0.07	0.13	0.09
SENSORY/ORGANOLEPTIC			
Fruity	1.20	5.60	4.51
Bitter	1.20	5.10	2.41
Pungent	1.60	5.0	2.41

The intensity spread based on Polyphenols for 2018 was 51% Mild, 37% Medium and 12% Intense. In 2017 these were 34% Mild, 36% Medium and 30% Intense. Thus there was a substantial increase in Mild in 2018 with a corresponding decrease in Intense.

Olives New Zealand thanks the growers who returned their 2018 harvest data.