

MODELLI D'IMPIANTO PER LA NUOVA OLIVICOLTURA

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Modelli d'impianto

Intensivo

250-300 piante/ha

6 x 6 m

Vaso policonico

Vibratori da tronco

60 - 80 qli/ha

Tutte le cultivar
Produzioni di nicchia



Superintensivo

1600-2000 piante/ha 1600-2000 piante/ha

Fruttificazione precoce

Cantiere di raccolta della viticoltura

Scavallatrici adeguatamente modificate

Produzioni: fino a 270 qli/ha



Limitato patrimonio varietale:

modesto vigore, fruttificazione precoce,
costanza di produzione, spiccata plasticità
di attamento, bassa suscettibilità alle
fitopatie

Olio commodity

Impianti superintensivi, *raccolta in continuo*

Piante allevate in Parete



Scavallatrice: 3 ore/ha

Piante allevate in volume



Colossus: 3 ore/ha

Impianti intensivi in parete

Macchine Syde by syde

Canopy contact



Miro



Scopo del progetto di ricerca

Sviluppare impianti che offrano la possibilità di ottenere i vantaggi propri degli impianti superintensivi utilizzando cultivar italiane



«Le novità vegetali»

153

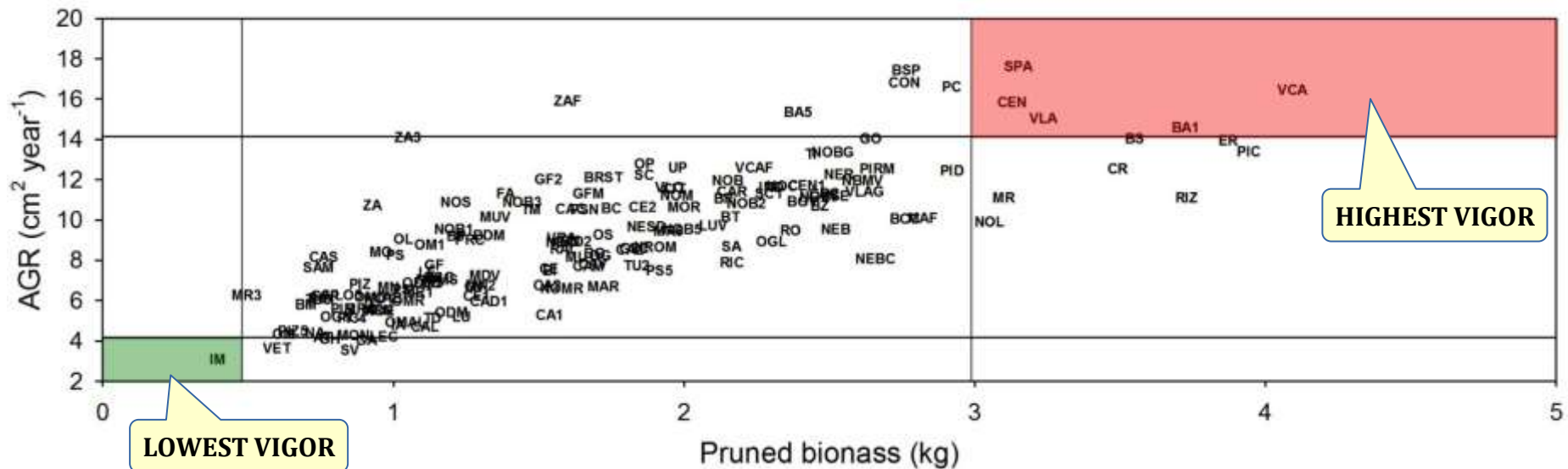
Abunara C2	Crastu Collesano C1	Nerba ST	Pizzutella C1
Aitana	Erbano	Nerba sangue dolce C5	Pizzutella C5
Bariddara C1	Fastucara aragona C5	Nocellara del Belice ST	Piricuddara
Bariddara C5	Galatina C5	Nocellara del Belice Cl 1 C2	Passulunara C4
Biancolilla caltabellotta	Giarraffa ST	Nocellara del Belice Cl 2 C2	Passulunara P25 C1
Biancolilla caltabellotta C0	Giarraffa 2S Mistretta C5	Nocellara del Belice Cl 3 C2	Passulunara P51 C5
Biancolilla Di Marco C0	Giarraffa Pc	Nocellara del Belice P5 C 5	Passulunara lascari C3
Bottone di gallo	Giarraffa di Mazzarino C4	Nocellara del Belice Clone 7 C2	Passulunara di Naro C5
Bottone di gallo vassallo C1	Giarraffa Pollina 1 C5	Nocellara del belice giafalone C5	Raitana C1
Biancolilla iacapa C0	Ghiannuzza C4	Nocellara Castelvetro C4	Rizza Caccamo C4
Biancolilla misilmeri C4	Gordales	Nocellara Etnea st	Rizzo C1
Biancolilla napoletana	Iacona C1	Nocellara licata C5	Rotondella C1
Biancolilla pantelleria C0	Impressionante	Nocellara messinese	Santagatese ST
Brandofino C2	Indemoniata C1	Nocellara messinese Ricciardi C3	Sammartinara C2
Brandofino ST	Leucocarpa	Nocellara messinese spina C3	Scognita
Biancolilla siracusana C0	Leucocarpa Carboj	Nocellara semenzale C5	Santa Caterina C4
Biancolilla Schimmenti C4	Lumiaru	Nostrale Terminisa C4	Spagnola Aragona C5
Bella di Spagna	Lunga di Vassallo C1	Nocellara messinese o romana C3	Salicina vassallo C1
Biancolilla tiziano C0	Marfia 2 C3	Olivo di Monaci 2V DSX	Tonda dolce Ist. Sper. Ol. C4
Biancuzza C4	Marsalesa C4	Olivo di Monaci P36 C5	Tonda Iblea ST
Cacaredda 2S2 VDSX	Minna di vacca P9 C1	ogliara P42 C5	Tortella Morticiana C2
Cacaredda ST C1	Minuta	ogliarola licata C5	Tunnulidda C2
Cacazzara C3	Minuta 2S 3VD SX	Ogliarola Nostrale C4	Tunnulidda C5
Cacaridduni P48 C5	Monaca C1	Oliva Longa C2	Uova di piccione C4
Cacaridduni st C1	Montonica C0	Ogliarola Messinese ST	Vaddarica
Calatina	Mortillara ST C1	Ogliarola Messinese C1	Vaddarica Frazzano Clone 2
Calamignara C4	Moresca	ogliara maltese 2S C5	Vetrana C1
Castricianella Rapparina	Moresca 1 C3	Olivo di Mandanici ST	Verdella C1
Castelluzzo C4	Moresca 3 UO95 S 45	Ogliarola Messinese Ricciardi C3	Verdella Frutto Grosso
Cavaliere ST	Moresca P6 UO 95 S 45	Opera Pia C1	Verdello st
Cacazzana std C2	Moresca camp2 C3	Nliva saracena C1	Verdello C5
Cerasuola Cappuccia C2	Moresca di noto C3	Olivo di vicari	Vaddara C5
Cerasuola st	Murtiddara C2	Pizzo di corvo C5	Verdese C4
Cerasuola 1 clone 2	Murtiddara vassallo C3	Pizzutella P34 C5	Zaituna C1
Cerasuola 2 C2	Nasitana	Picholine	Zaituna CC3
Cerasuola Nilo Paceco C5	Nocellara del Belice Mazzara C5	Pizzuta D'Olio C5	Zaituna Florida C3
Cerasuola 1 Nilo Paceco C5	Nebba C1	Pirunara C2	
Citrone clone 2	Nebba di calatafimi C4	Pirunara di Mazzarino C4	
Conservolia	Nerba collesano C1		
Crastu ST			



Le novità vegetali

Studio delle relazioni tra tasso di crescita del tronco, (AGR), vigore e efficienza produttiva in 153 accessioni di olivo siciliane

Spagnola Aragona C5
Cerasuola Nilo Paceco C5
Verdella C1
Bariddara C1
Vaddarica



Impressionante

I PROVA (Impianto 2006)

Selezionare, nell'ambito del germoplasma siciliano, cultivar/cloni genotipi adatti ad impianti “intensivi con piante allevate in parete” che possano essere raccolti con macchine che operano *in continuo*



Arbequina



Calatina



Mandanici





Kalat



Arbequina



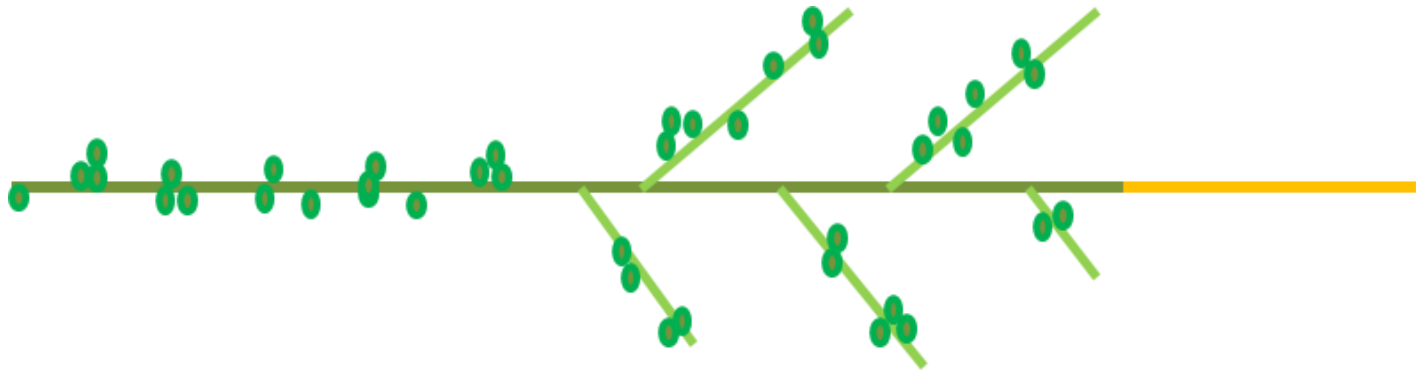
Mandanici

Lunghezza ramo misto A1 (cm)

Lunghezza vegetazione di 1 anno (cm)

Numero di rami anticipati A2

N° di frutti



Indice di fruttificazione (calcolato su rami misti e anticipati)

N° di frutti/cm di ramo

Aspetti vegetativi

Sostanza secca biomassa asportata con la potatura (g)

Ripartizione (n) per tipo dei rami asportati

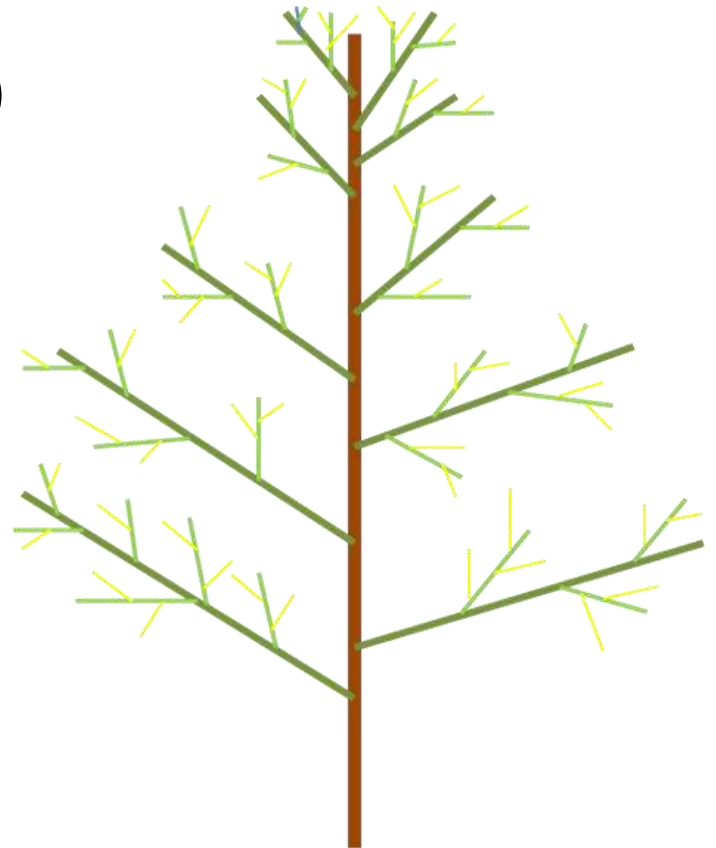
Lunghezza assi vegetativi asportati (cm)

A0 tronco

A1 ramo misto

A2 ramo anticipato di I ordine

A3 ramo anticipato di II ordine

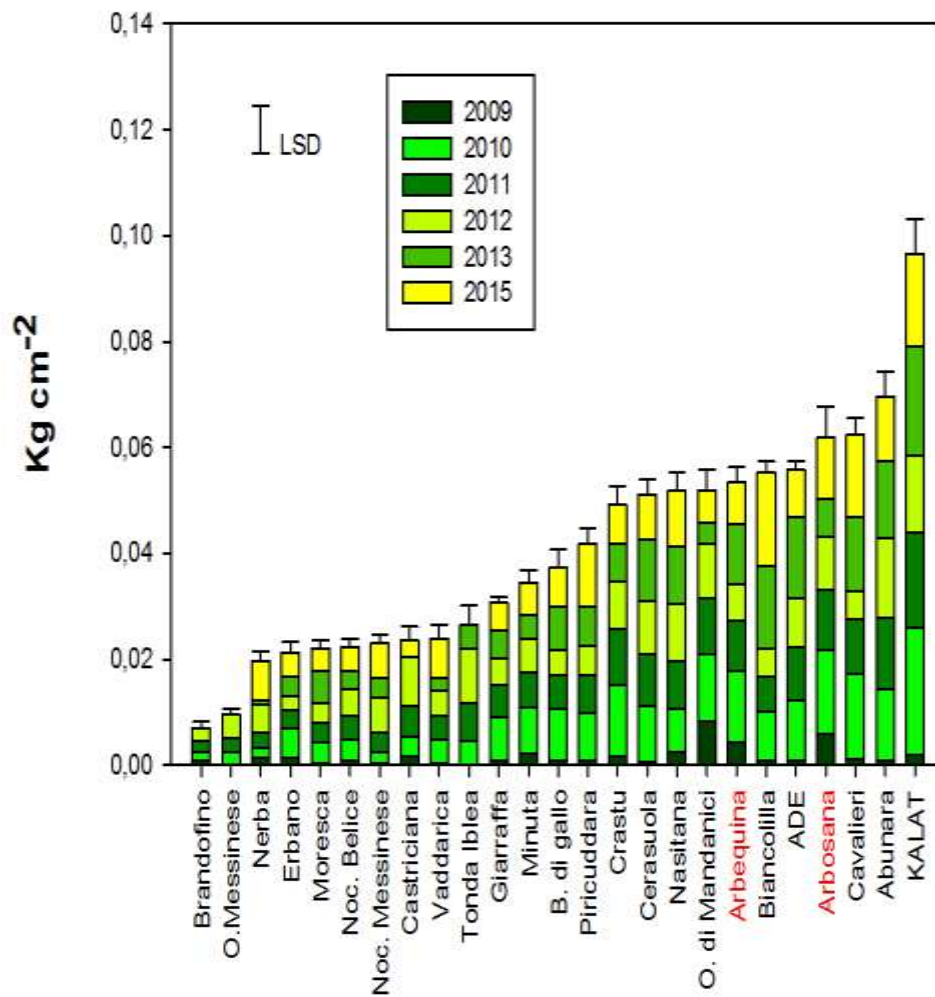


***Impianti “in parete”: 27 cultivar siciliane e tre cultivar
“globali”.***

Sciaccia, 50 m. s.l.m.



Efficienza di genotipi siciliani di olivo nella produzione di olio nel contesto di impianti in parete (1100 p/ha)





Kalat
Habitus di fruttificazione.
III anno impianto

II Prova (Anno 2012)

Sciaccia, 50 m. s.l.m.



Impianti intensivi forma di allevamento in parete

Kalat: 4° vegetazione in campo

5x2 m

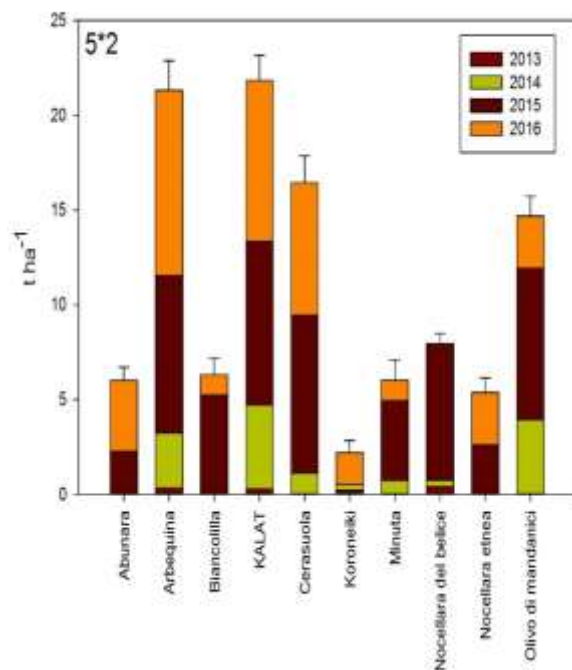


5x3 m

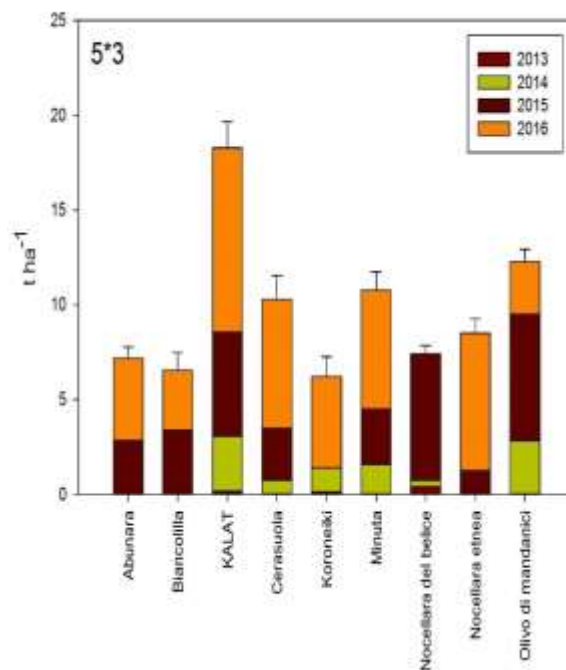


Produzione di frutti (t/ha) annuale e complessiva (2013-16) di 9 cultivar siciliane in impianti in parete

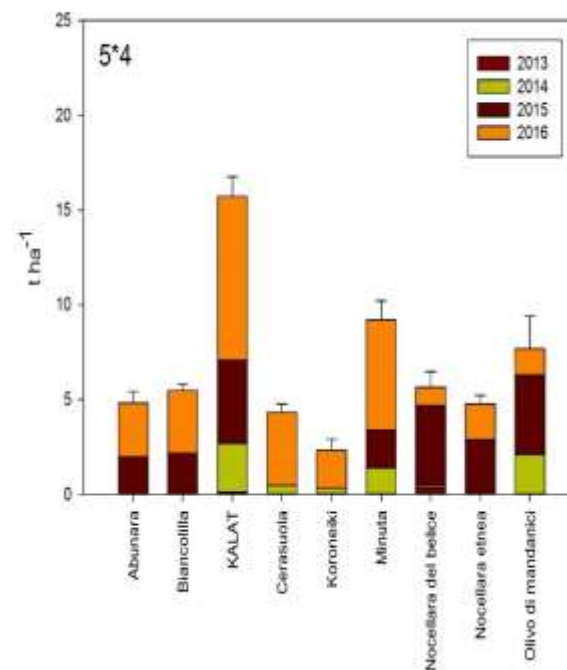
**1000
piante/ha**



**667
piante/ha**

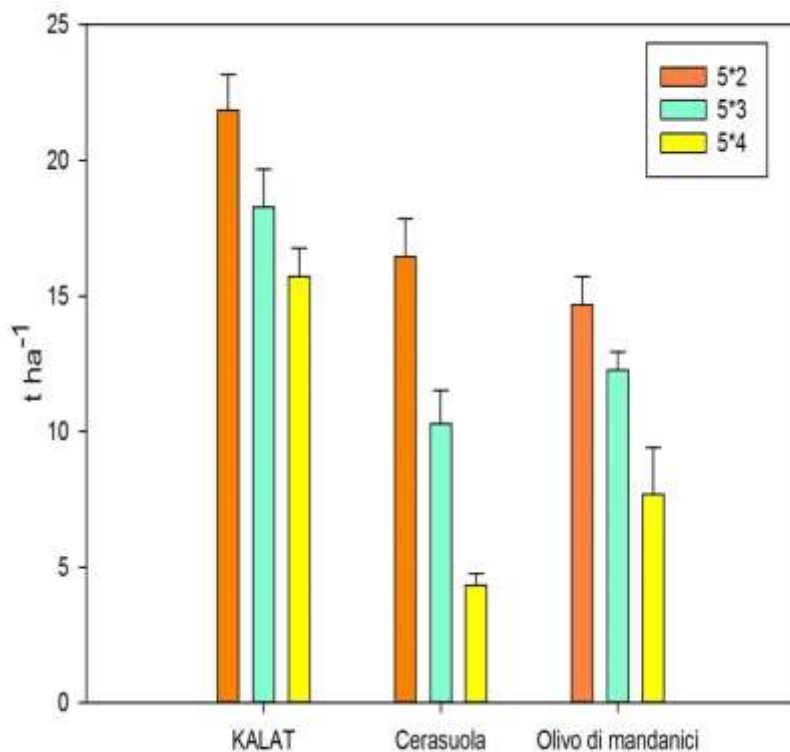


**500
piante/ha**

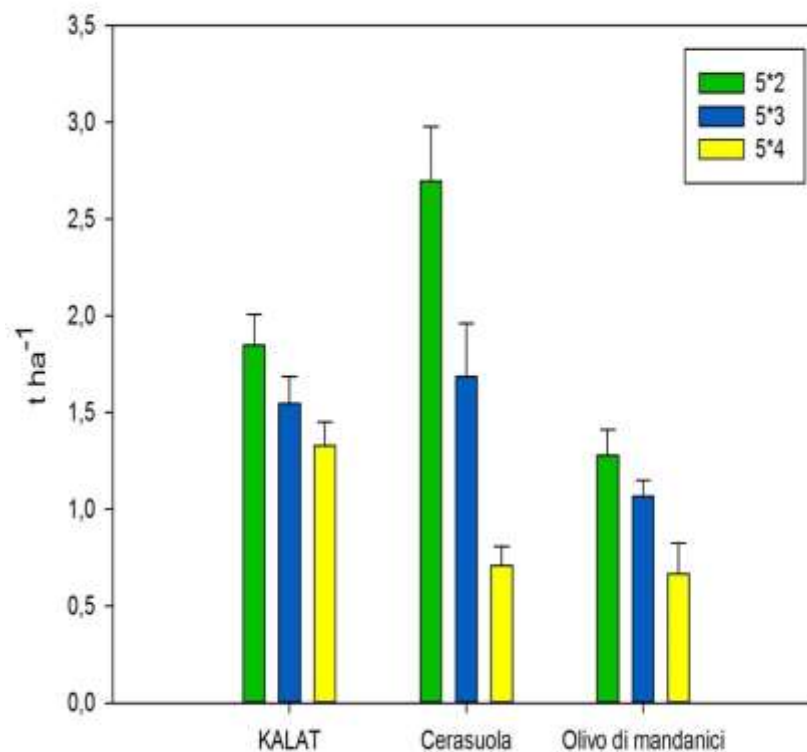


Produzione (T/ha) cumulata (2013-16) di olive (A) e di olio (B) di tre cultivar siciliane in impianti in parete (Impianto 2012)

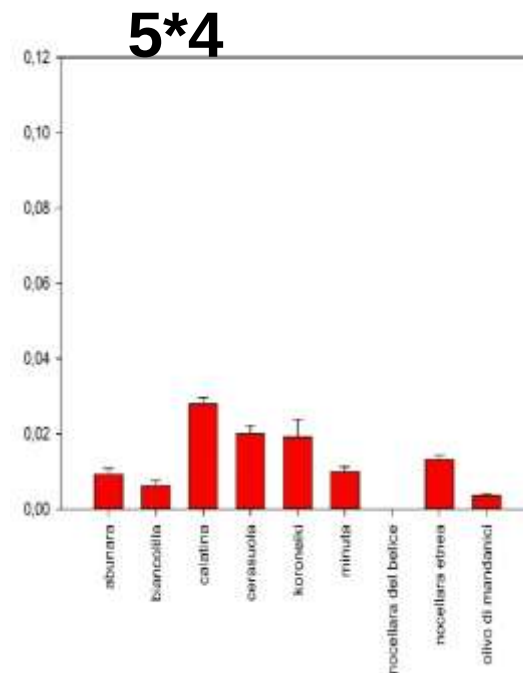
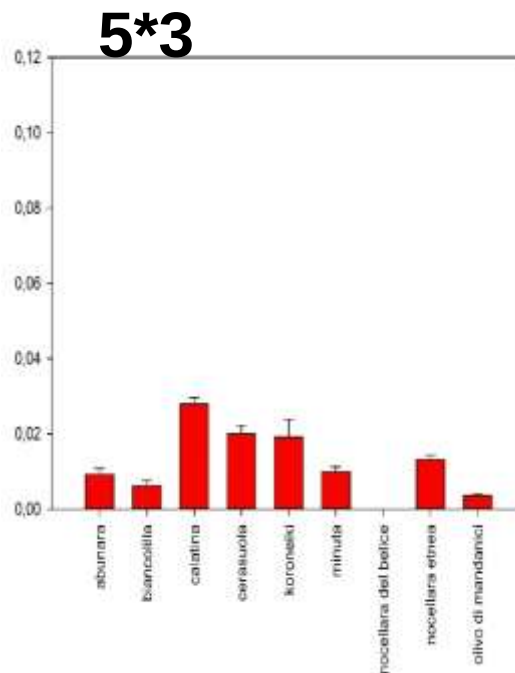
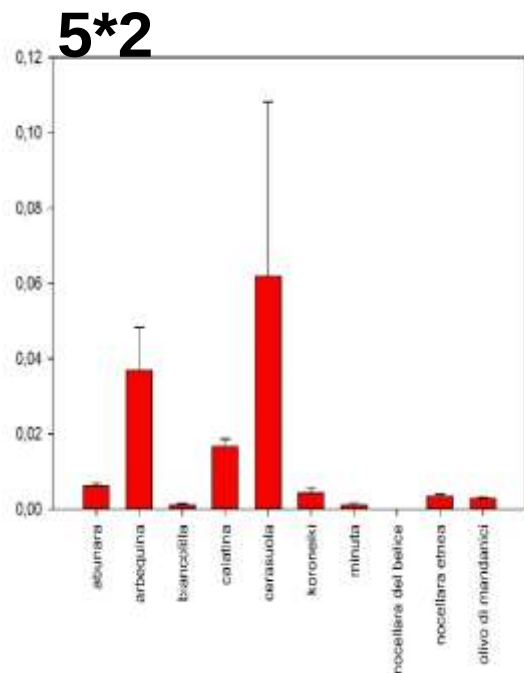
A



B



Efficienza produttiva (kg olio/cm²) annuale e complessiva (2013/2016) di 9 cultivar siciliane in impianti in parete (anno impianto 2012)



III Prova, (2014)

Impianti intensivi

confronto agronomico piante

allevate in parete vs piante

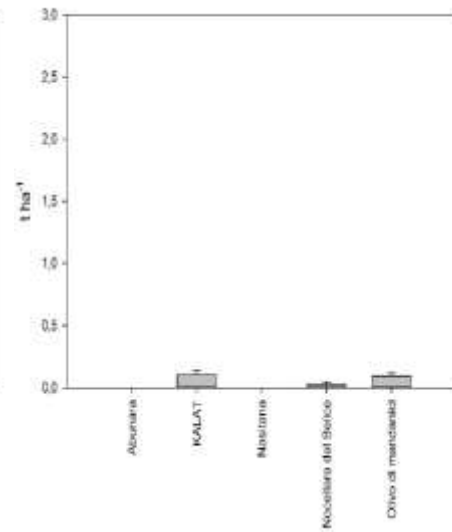
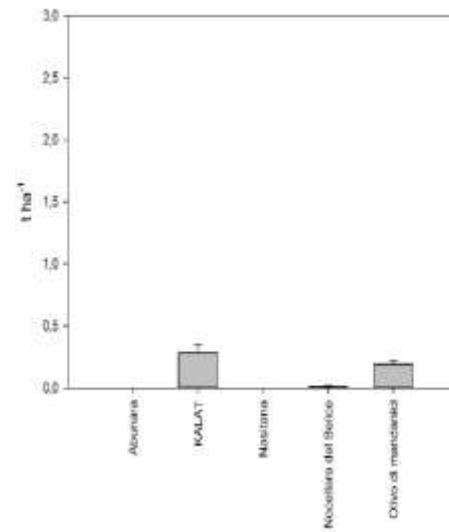
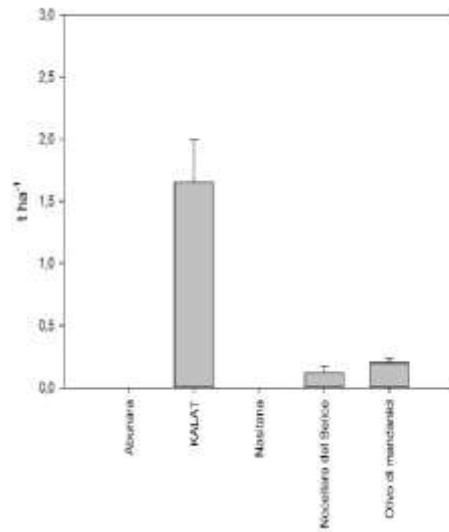
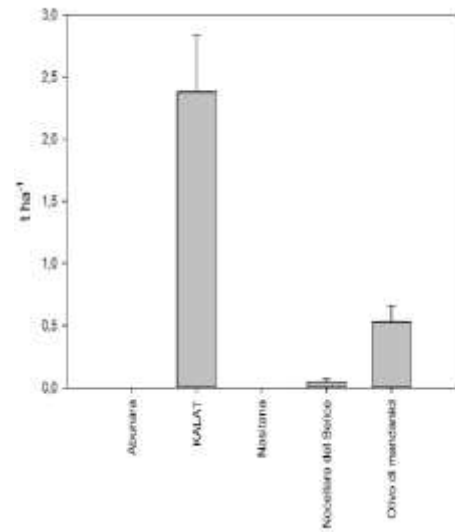
allevate in volume

2015 6X2 m

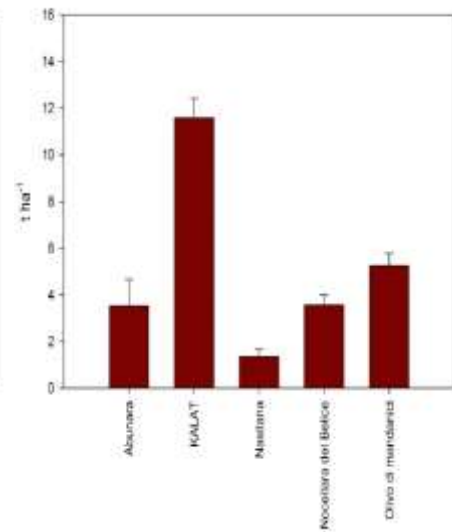
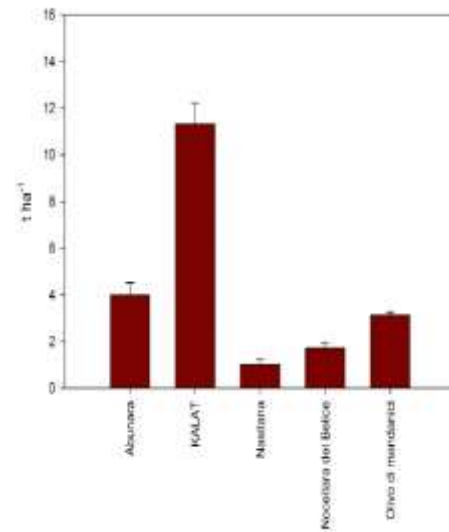
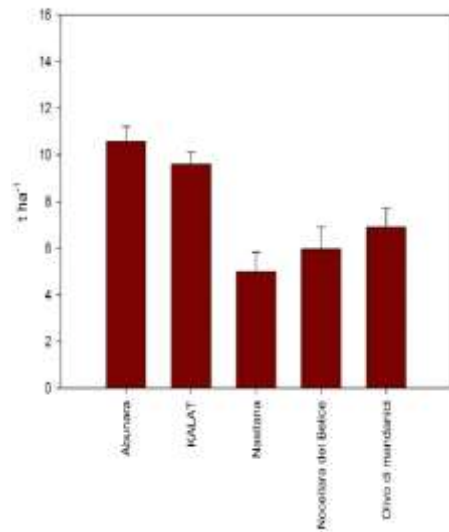
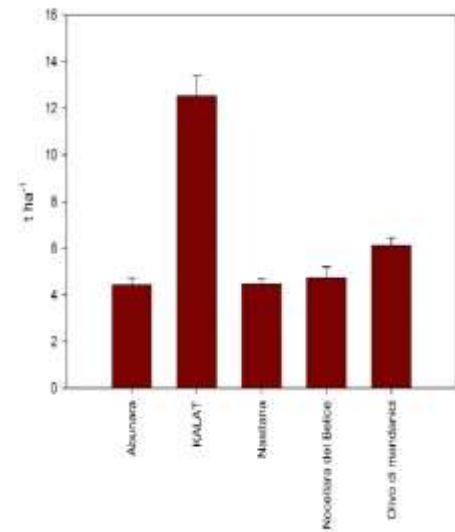
6X3 m

6X4 m

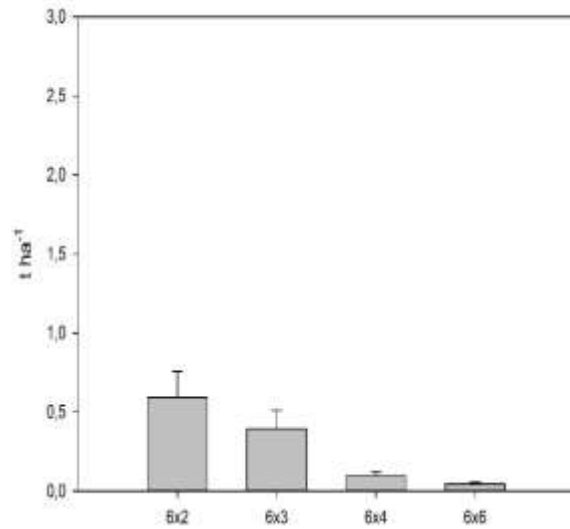
6X6 m



2016 Produzione (T/ha) in rapporto a cv e tipologia impianto

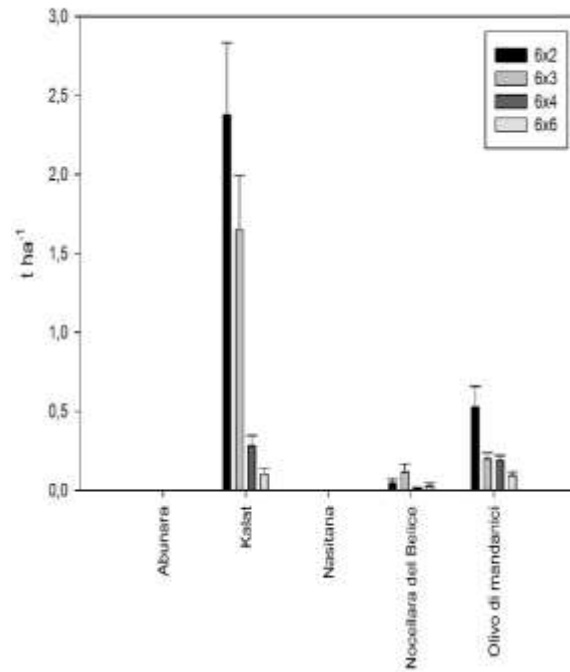
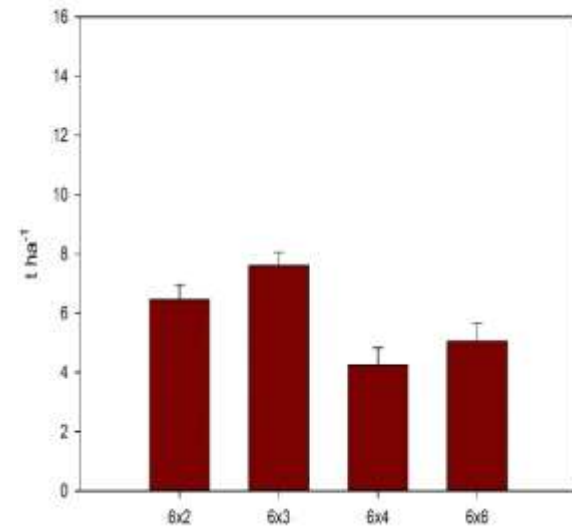


2015

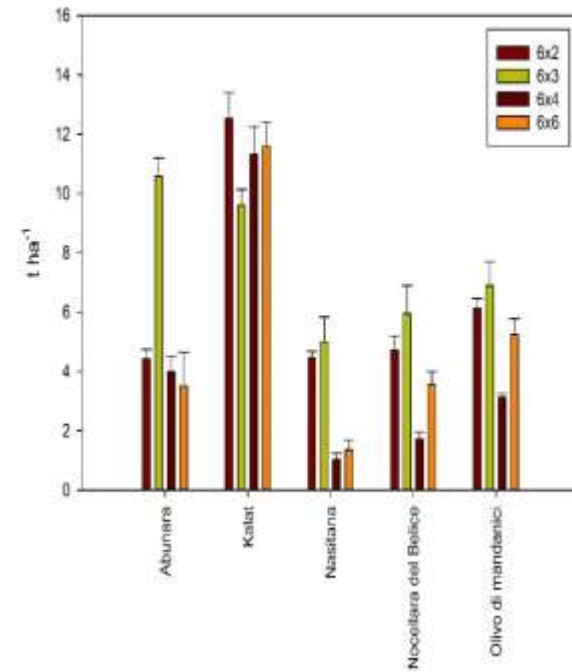


Tipologia

2016



CV



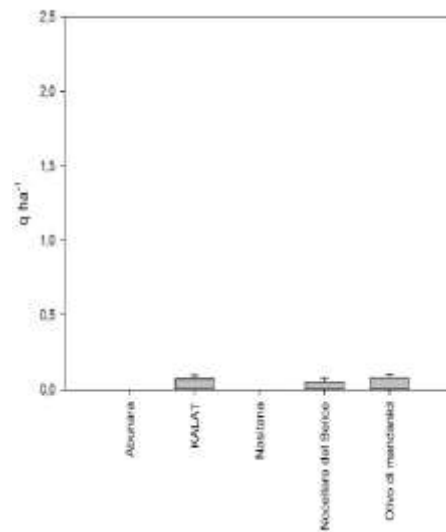
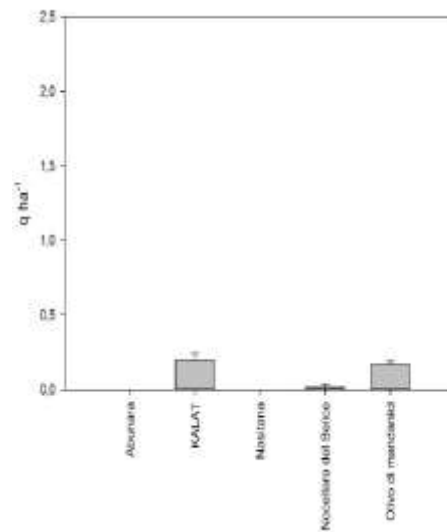
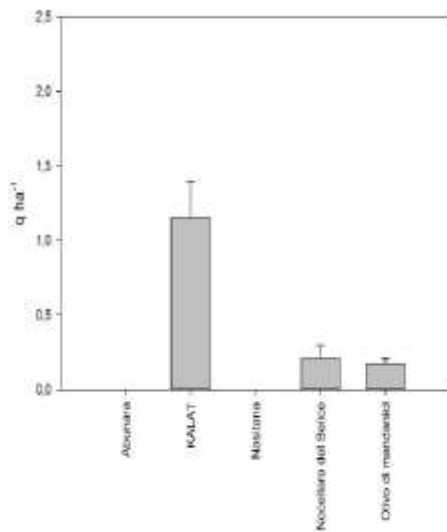
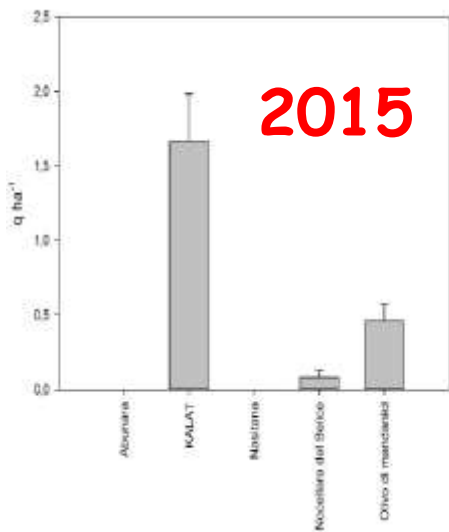
6X2 m

6X3 m

6X4 m

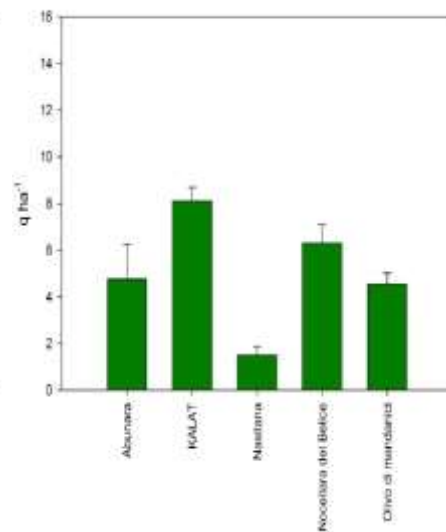
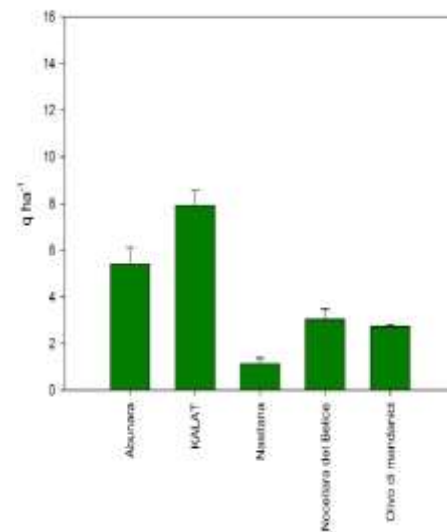
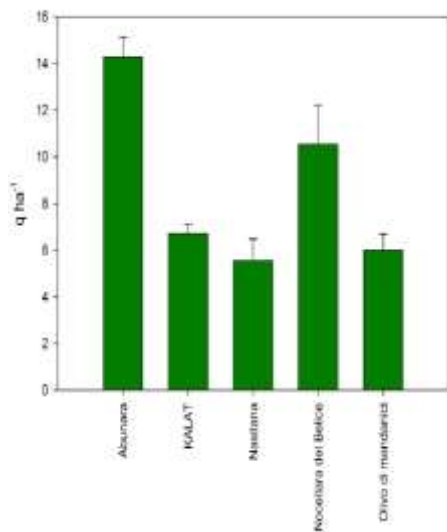
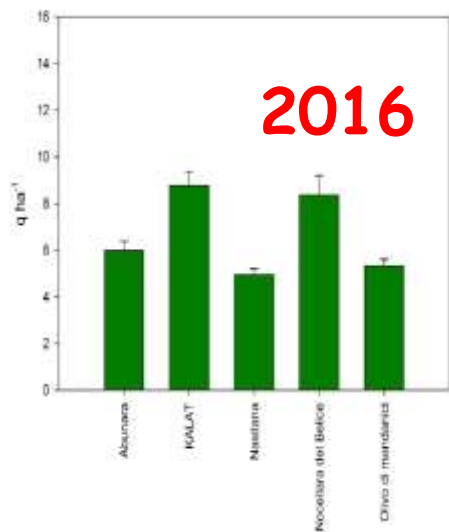
6X6 m

2015



Olio (qli/ha)

2016

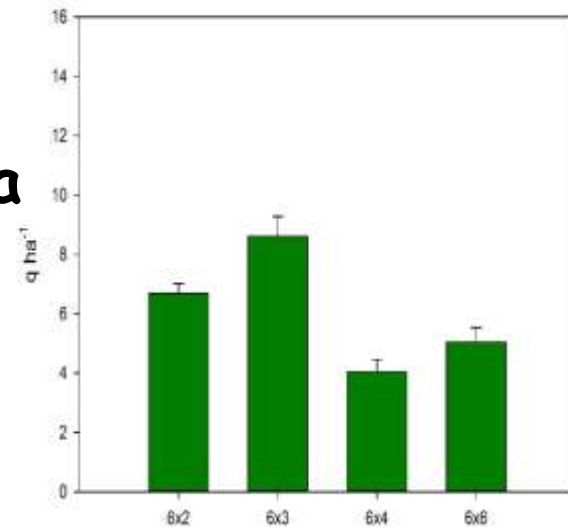
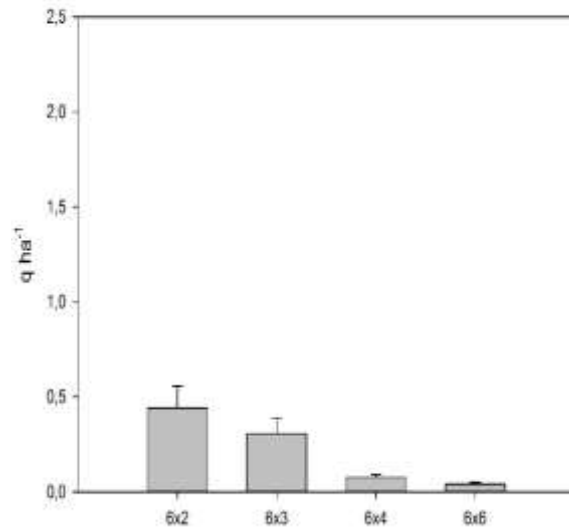


2015

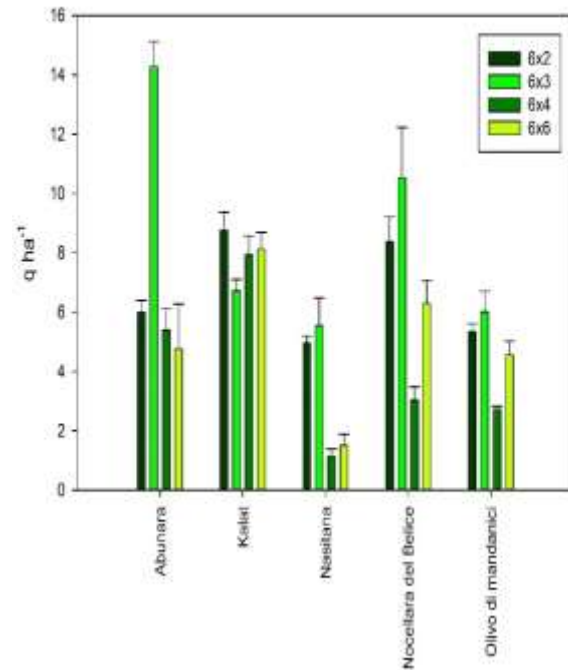
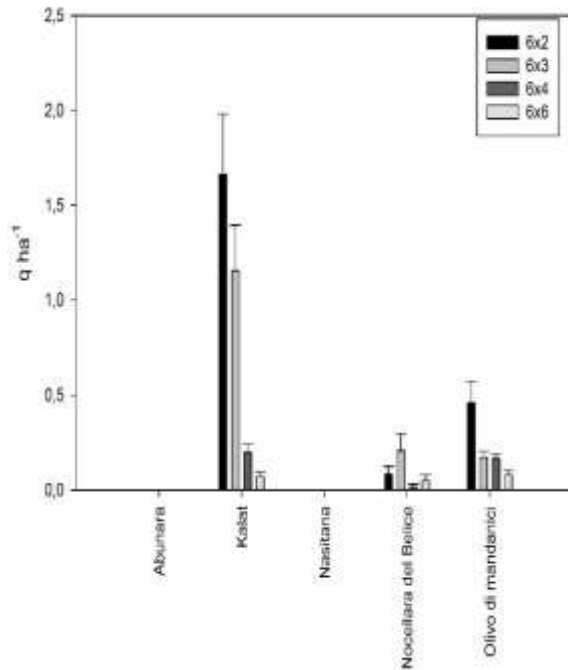
Olio: qli/ha

2016

Tipologia

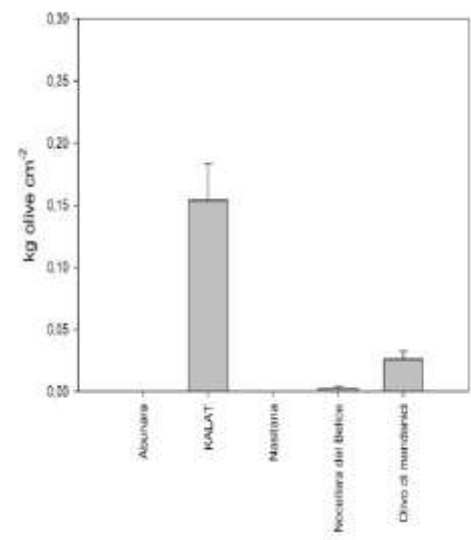


Cv

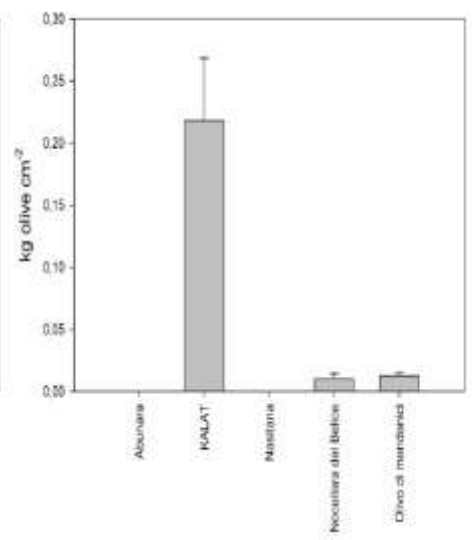


2015

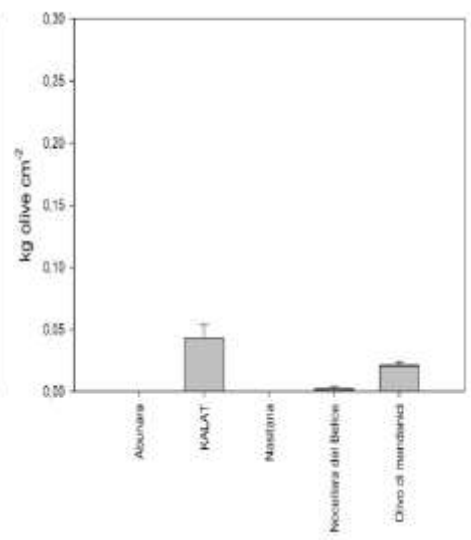
6X2m



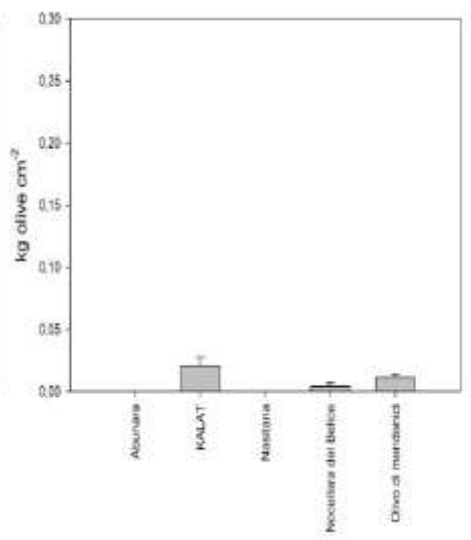
6X3m



6X4m

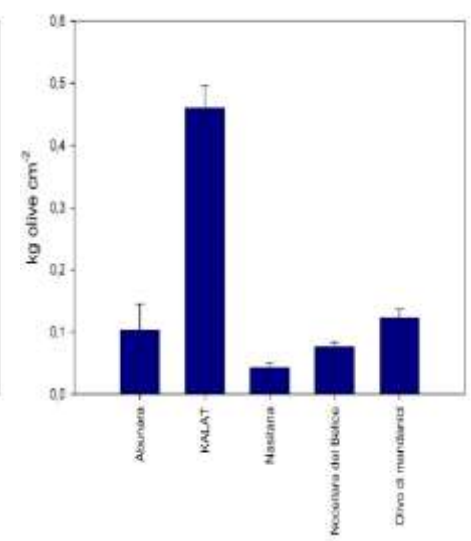
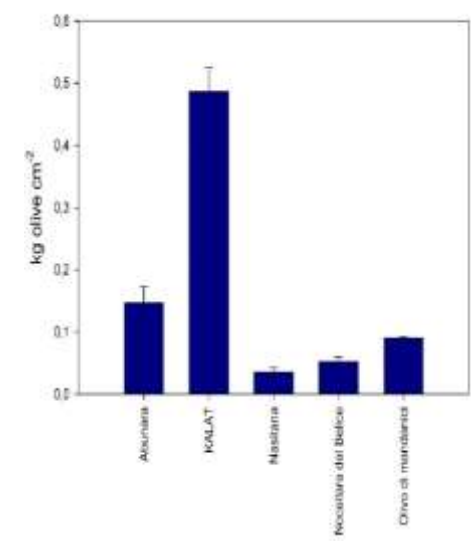
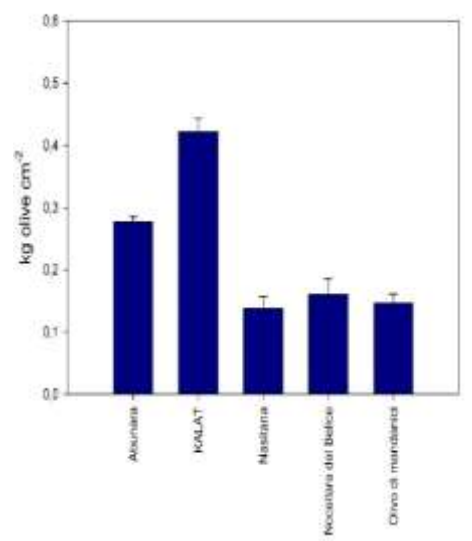
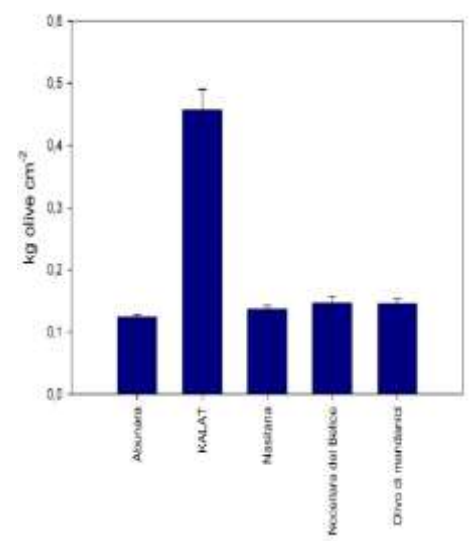


6X6m

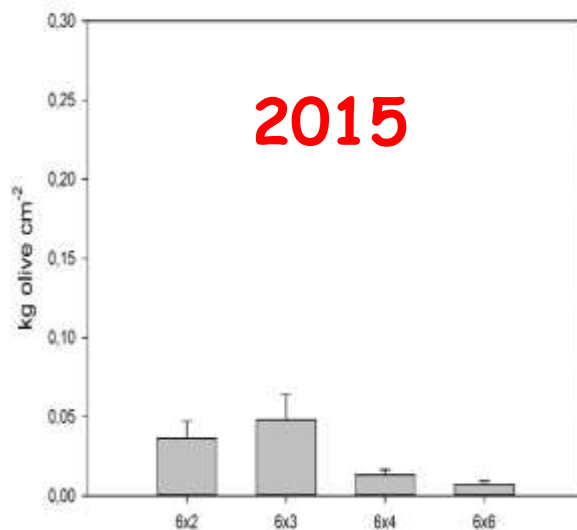


2016

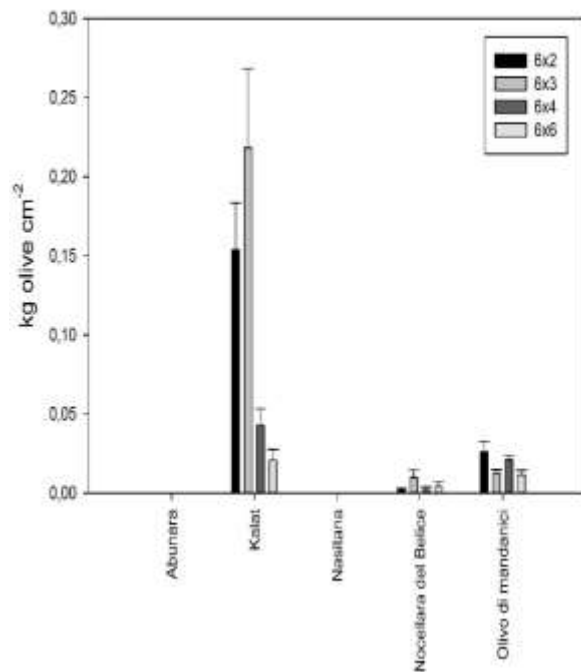
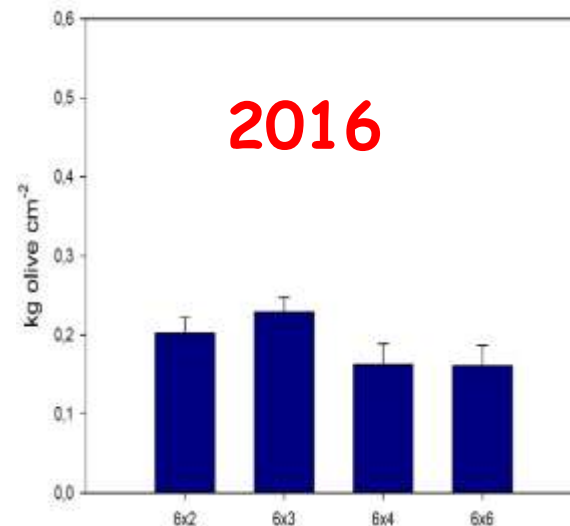
Efficienza produttiva (kg frutti/cm2)



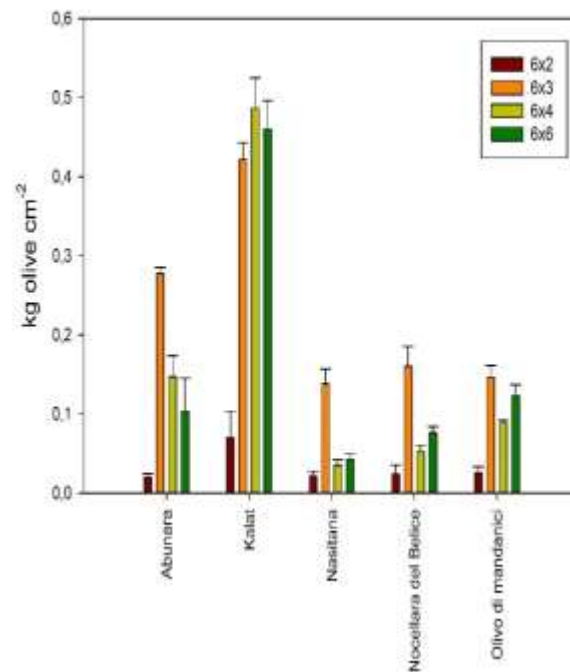
Efficienza produttiva (Kg frutti/cm²)



Tipologia



CV



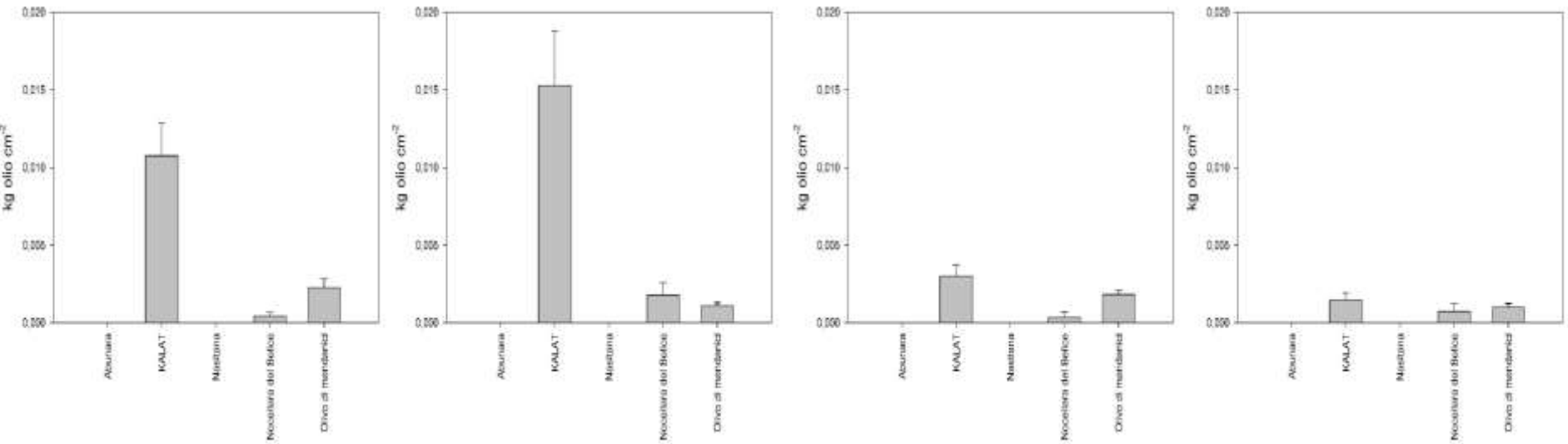
2015

6X2 m

6X3m

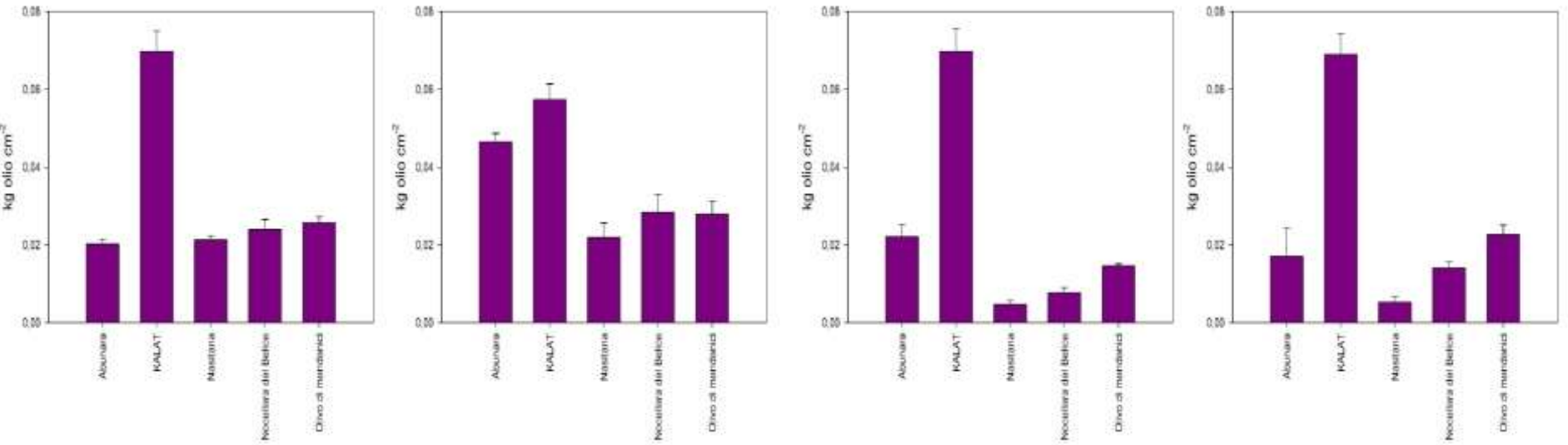
6X4m

6X6m

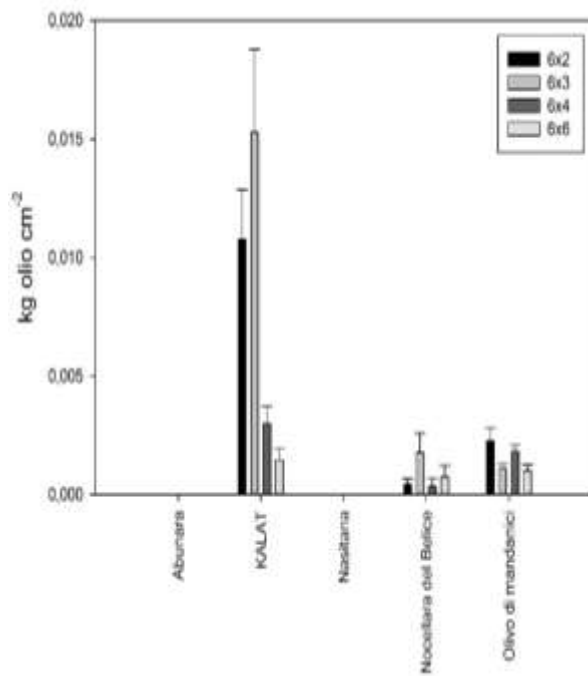
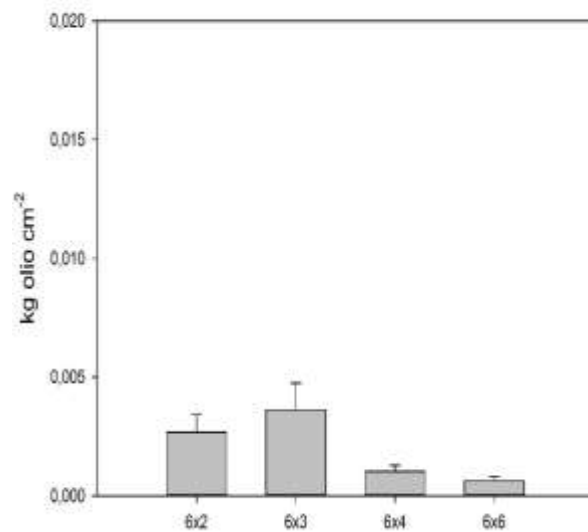


2016

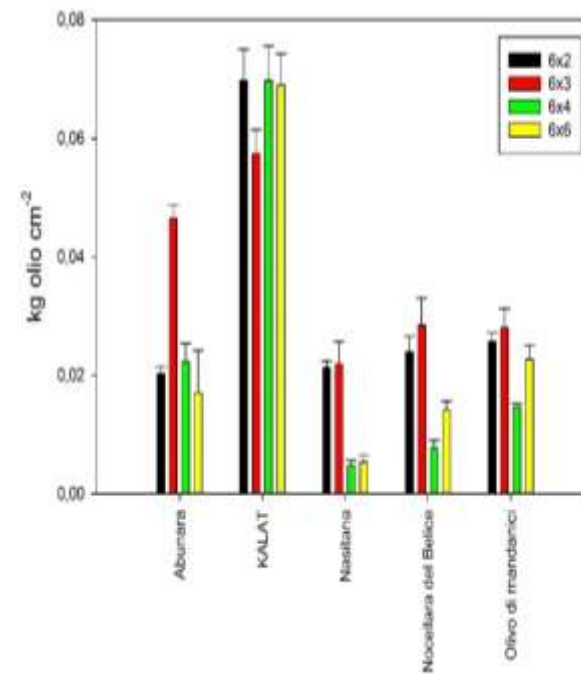
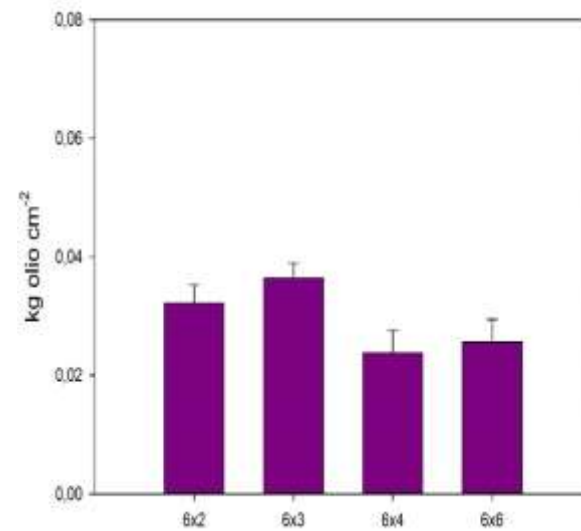
Efficienza produttiva (Kg olio/cm2)



2015

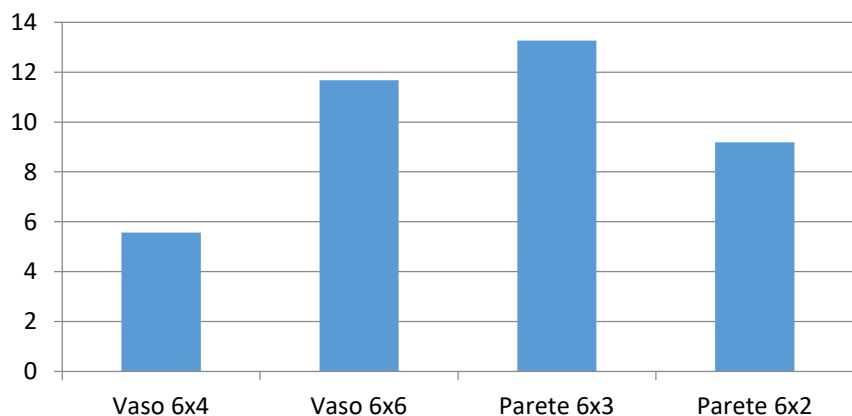


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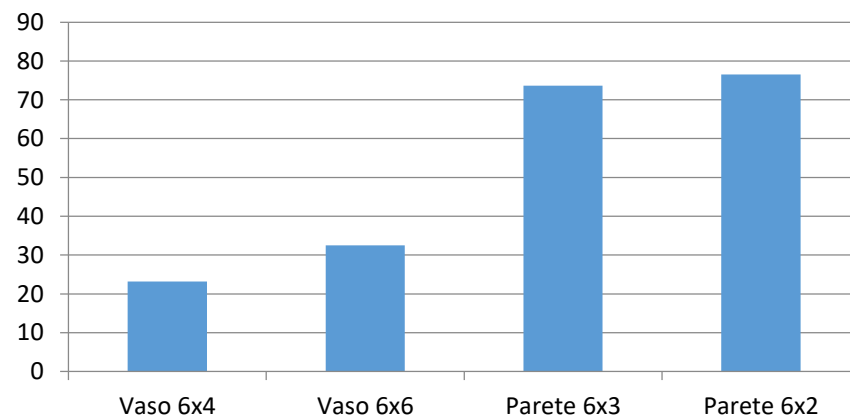


2017: Cultivar SAF ONE (Resa olio 15%)

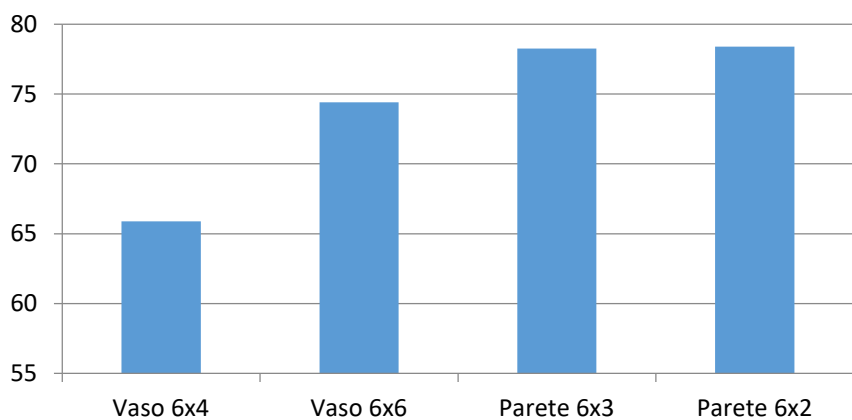
Produzione pianta (kg)



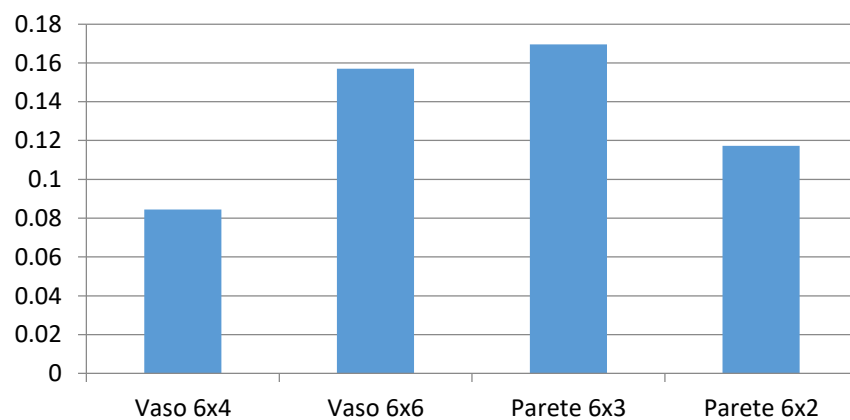
Produzione unitaria (kg/ha)



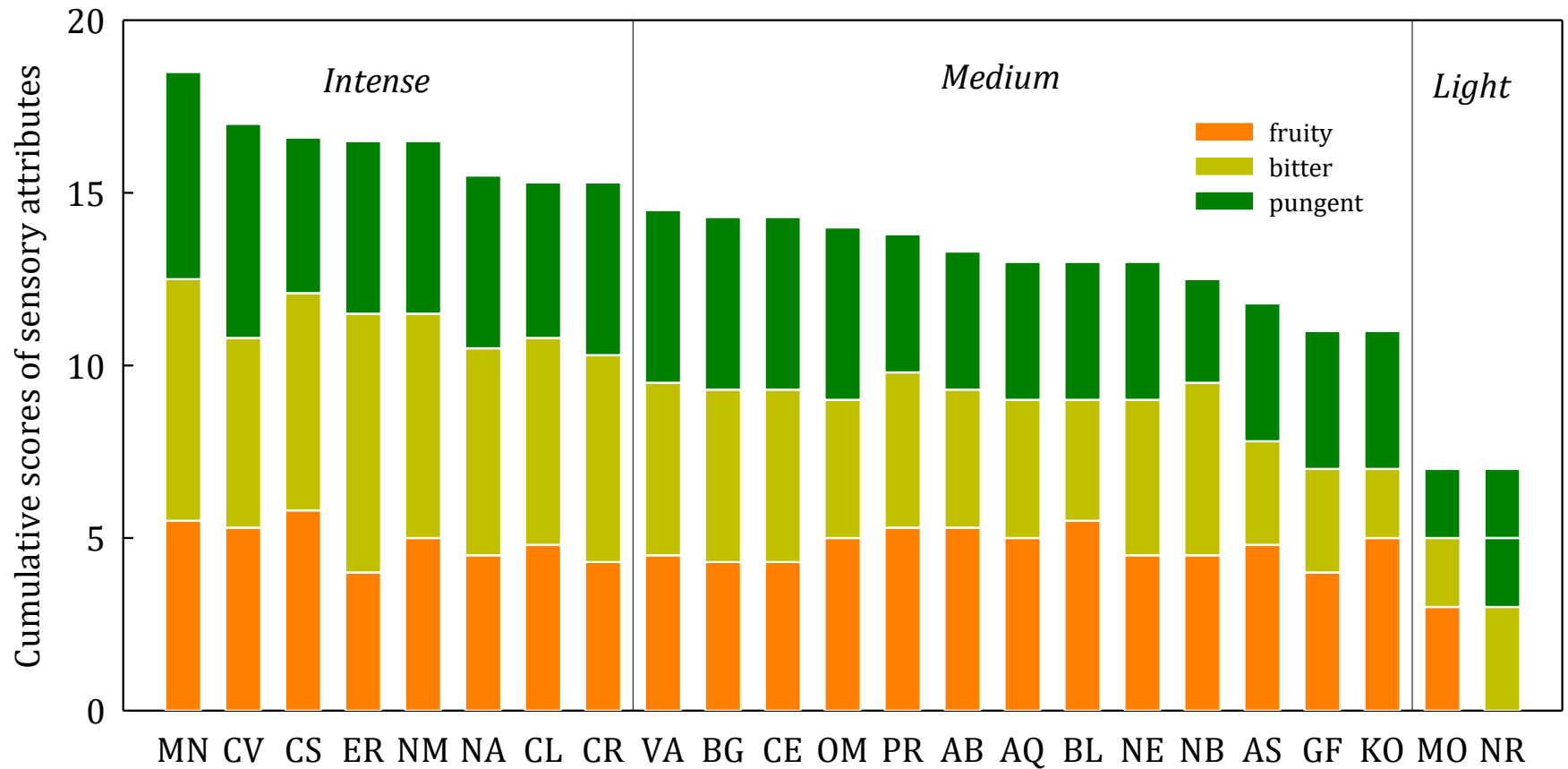
Area sezione tronco (cm²)

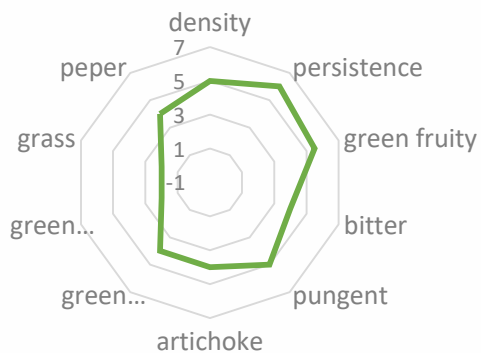
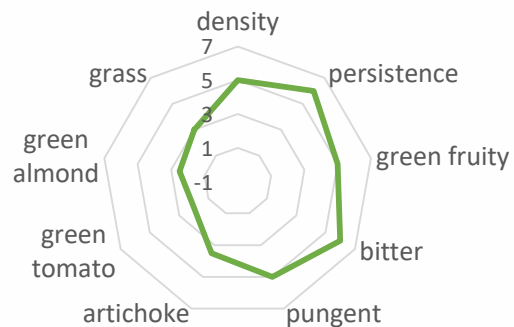
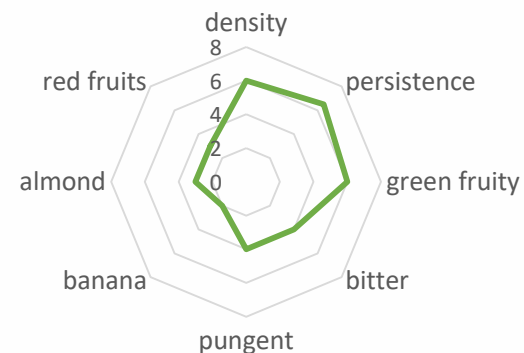
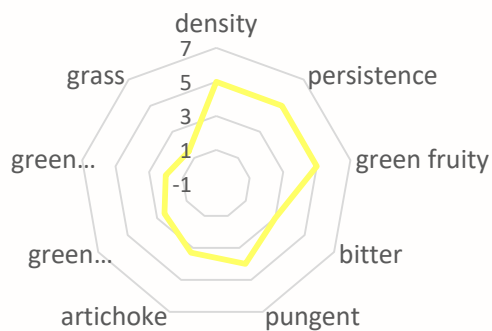
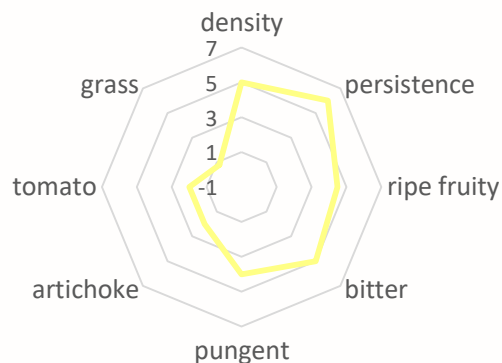
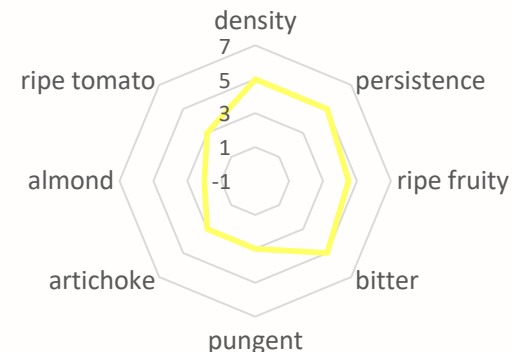
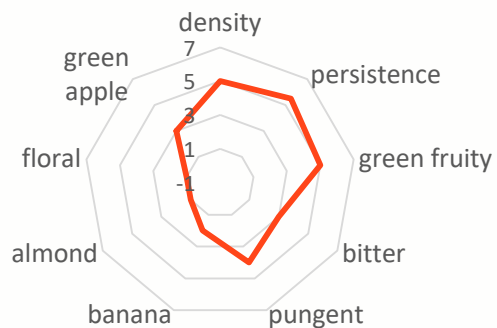
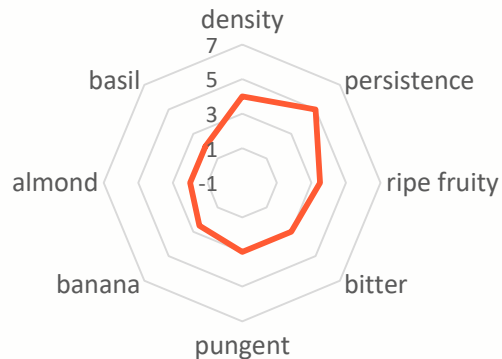
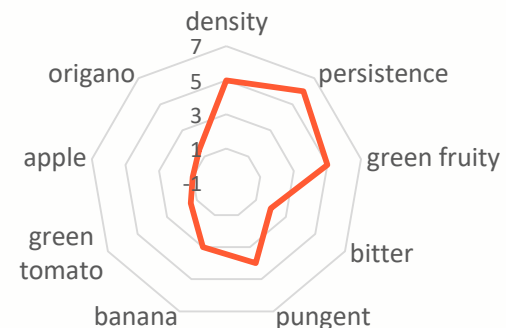


Efficienza produttiva (kg/cm²)



Considerazioni conclusive



Abunara**Calatina****Cavalieri****Biancolilla****Cerasuola****Nocellara del Belice****Arbequina****Arbosana****Koroneiki**



Tipicità/Esclusività = Qualità ?