



# GRAPE VARIETIES

Guide to seedless and seeded grapes

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## Ripening calendar for seedless grapes (italian conditions)

Variety	June	July	August	September	October
Superior Seedless			■	■	
Centennial			■	■	
Sublima		■	■		
Early Gold		■	■		
Prime o Early Sugar	■	■			
Thompson Seedless			■	■	■
Sophia Seedless			■	■	
Autumn Giant				■	■
Melissa/Princess				■	■
Regal Seedless				■	■
Flame Seedless		■	■		
Crimson Seedless			■	■	■
Scarlotta				■	■
Summer Royal		■	■		
Midnight Beauty			■	■	
Sable Seedless				■	■

## Ripening calendar for seeded grapes (italian conditions)

Variety	June	July	August	September	October
Victoria		■	■	■	
Italia				■	■
Redglobe				■	■
Black Pearl				■	■

## Superior Seedless

### FEATURES

- Low fertility. Need to prune with high number of buds per vine. Longer canes to be preferred (11-15 buds)
- Extreme temperatures and high humidity during flowering can cause excessive shattering or inadequate fruitset.
- Sensitive to water stress
- Susceptible to Botrytis
- Hard to reach adequate sugar for the market (to take in account for sizing and crop load)
- Low resistance on the vine



# Superior Seedless

## CULTURAL PRACTICES

- Susceptible to browning at harvest.
- To avoid excessive shatter it is important to have vines in balance at flowering
- GA 1ppm @ 100-110% bloom
- Girdling @ 8mm berry size
- GA (8-10ppm) has good sizing effect
- Bunch Trimming after GA

# Early Sugar - Prime

## FEATURES

- Earliest variety on the market (7-10days before Superior)
- High fertility and medium-high vigor. Spur/cane pruning
- Highly susceptible to low temperatures and high humidity during flowering and fruitset. (uneven berries).
- Sensitive to cracking during ripening (halfmoon)
- High Cultural Costs



# early sugar - prime

## CULTURAL PRACTICES

- Absolute important to keep vines with uniform stages
- Leave one bunch per shoot
- Plastic can help to improve uniformity and fruitset
- GA @ 1-1,5ppm at 110% flowering
- Reacts well to GA. Maximum 20ppm GA but prefer lower rates.
- GA sizing @ 8-10mm berry size
- GA dipping for young vines (?)

# Thompson Seedless

## FEATURES

- White grape with a cylindrical berry
- Medium-late. Picked end of August - September
- Very high cultural cost
- Highly sensitive to sunburn
- Highly sensitive to cracking and rot during ripening
- Sensitive to water berry
- Medium to high vigor. Long canes (12 buds) to have good fruitfulness
- Good storage potential (1-1,5month)



# Thompson Seedless

## CULTURAL PRACTICES

- 2 to 3 GA thinning sprays (10ppm) at flowering (from 25 to 100%)
- 3 GA sizing sprays (30 - 40 - 40) with 1st at 4-5mm. 2nd and 3rd 5-7days apart
- 1st sizing spray timing is important. Do not spray too early (uneven berries)
- Sizing girdle if bunch is loose
- Bunch trimming is extremely important
- GA reacts optimally when Thompson is growing actively. It is important to maintain a constant growth.
- Not to exceed with vigor (fine tuning)

# Sophia Seedless

## FEATURES

- White grape. Round berries
- Early-medium
- Very high fertility
- Tendency to have uneven berry size
- Good color and slight muscat flavor
- Good storage potential
- Production under licence of Sunworld International
- Easy to over-ripe on the vine.
- Sensitive to cracking



## CULTURAL PRACTICES

- Good sizing response to PGRs. Do not exceed with high GA rates, they will delay the color.
- 8-12ppm GA @ 8mm berry size
- Need pre flowering bunch removal

# Autumn Giant

## FEATURES

- White variety. Round berries
- Medium-late harvest
- Big bunches with conical shape
- Natural large berries
- High fertility
- Slightly compact bunches
- At harvest AG has pale green berries with neutral flavor (no distinctive taste)
- Good storage potential



## CULTURAL PRACTICES

- GA thinning spray at 1ppm at 100% bloom
- No need sizing with PGR

# Melissa/Princess

## FEATURES

- White variety. Cylindrical berries
- Great taste. One of the best on the market
- Medium - late harvest (as TS)
- High vigor and good fruitfulness
- Medium size bunch with a conical shape.
- Might overshatter in case of excessive vigor and low T during flavoring
- Good size potential
- Might present browning during ripening
- Princess = production under license of CTGC



# Melissa/Princess

## CULTURAL PRACTICES

- Very important to manage vigor and balance the vine
- With young vines and high vigor girdle at onset of flowering
- In case of really high vigor it is possible to re-open at girdle at sizing time
- To be harvested before starts to browning (not in all conditions)
- Responds well to GA. Do not exceed. Spray 8-12ppm GA at 7-8mm berry size

# Regal Seedless

## FEATURES

- White variety. Elongated berries
- Very high fertility and high vigor
- Very big bunches with conical shape
- Tendency to uneven fruitset or excessive shatter
- Good natural berry sizing
- In some areas Regal develops astringent taste at ripening
- Susceptible to browning at harvest time (even during



## CULTURAL PRACTICES

- Girdle at bloom start with young and vigorous vines. Tip bunches at flowering.
- Do not size girdle to avoid astringent taste. Do not spray high doses of GA
- 4-6 ppm GA + 1-2 ppm CPPU at 6-8mm berry size
- Balance vine vigor
- 1 bunch per shoot before flowering

# Flame Seedless

## FEATURES

- Red variety. Round berries
- Early harvest
- High cultural costs
- Susceptible to cracking at harvest time
- Very high fertility. It can be either spur pruned or cane pruned
- Very good taste and good storage potential



# Flame Seedless

## CULTURAL PRACTICES

- Remove leaves around bunches before flowering
- 2 thinning sprays at flowering (30% and 80%) at 6-8ppm GA
- 3 sizing sprays for berry sizing with GA.
  1. @5mm berry size. 20ppm
  2. + 5 days. 25 ppm GA
  3. + 5 days. 25 ppm GA size
- Do not spray with CPPU. Berries will have problem to color
- Do not girdle in case there are potential problems with color

# RALLI SEEDLESS



- Red variety. Round berries
- It has been propagated from a natural mutation of Superior Seedless
- Equal to Superior except for the skin color
- Seems to accumulate more sugar than Superior
- Color might be an issue in some areas

# Crimson Seedless



## FEATURES

- Red variety. Cylindrical berries
- Medium-high vigor and medium fruitfulness
- Major variety in many markets
- Very fragile canes (frequent damages during spring)
- High crop loads and big berry size can cause delay in coloring and sugar accumulation

## CULTURAL PRACTICES

- 1ppm GA @ 100-110% bloom necessary to have good fruitset
- Do not exceed with GA for sizing. 10-14ppm at 8mm GA
- CPPU at 6-8mm with 4-8ppm. Do not mix with GA. Color issues
- Do not girdle in case of high crop load and areas where there are color issues
- Consider use of coloring agent (Ethepon)

# Crimson Seedless



# Summer Royal



## FEATURES

- Black variety. Round berries.
- Early (1wk after Flame)
- Big bunches with a conical shape
- High fruitfulness
- Susceptible to cracking
- Compact bunches
- Naturally large berry size

## CULTURAL PRACTICES

- GA 1ppm thinning spray at 100%bloom
- Trim bunches
- Low GA rates. 5-8ppm at 10-12mm

# Scarlotta

## FEATURES

- Red variety. Round berries
- Very late variety.
- Very high fruitfulness.
- Big bunches. Conical shape and compact
- Naturally large berries
- Good storage potential
- Production under license of Sunworld



International

## CULTURAL PRACTICES

- GA thinning spray at bloom. 2ppm GA at 80% flowering.
- Color problems to be verified

# Midnight Beauty

## FEATURES

- Black variety. Cylindrical berries
- Early harvest
- Very high vigor and good fruitfulness
- MB bunches can overshatter at fruitset in case of excessive vigor
- Susceptible to sunburn during berry growing
- MB can crack at ripening
- Production under license of



## CULTURAL PRACTICES

- Good berry sizing response to GA. 8ppm at 8mm berry size.
- Young vines have setting problems
- Tip shoots before flowering in case of excessive vigor
- Do not size girdle if vines are not vigorous

# Sable Seedless



## CULTURAL PRACTICES

- GA thinning spray at bloom. 2 sprays at 1ppm (50 and 90%)
- It's very hard to size up the berries

## FEATURES

- Black variety. Round berries
- Cylindric bunch and very compact
- Very high vigor and good fruitfulness.
- Mid-early harvest period
- Great taste
- Small size berries
- To be harvested at high Brix (20)
- Production under license of Sunworld International

# Autumn Royal



## CULTURAL PRACTICES

- Thinning spray (GA1,5ppm) at 110% bloom is necessary for storage potential (4-5 months)
- Don't need high doses of GA for sizing. 6-8ppm @ 10-12mm berries.
- No CPPU. Green ring around the stem
- Bunches need to be trimmed

## FEATURES

- Black variety. Elongated berries
- Highly vigorous. Great lateral shoot growth
- Late harvest period
- Good fruitfulness but not constant through the years.
- big bunches with a conical shape
- Naturally large berries
- Susceptible to cracking, in particular at veraison

## What's behind the corner?

- Breeding programs in the world (California)
  - SNCF (Sheehan Genetics)
- CTGC (California Table Grape Commission)
  - International Fruit (Pandol)
    - Giumarra
    - Sunworld
  - Pristine (Delano Farms)

## Seeded grapes

- Seeded grapes in many areas are still the most economically important varieties
- For some aspects seeded grapes are easier to grow than seedless grapes
- Seeded varieties are quickly losing positions on some markets
- New varieties are only seedless

# Italia



## FEATURES

- White variety. Round to elongated berries
- Medium vigorous. Good fruitfulness.
- Late harvest period
- Strong Muscat taste. Good storage potential
- Big bunches with a conical shape
- Naturally large berries
- Tendency to uneven berry size. Manual berry thinning sometimes needed

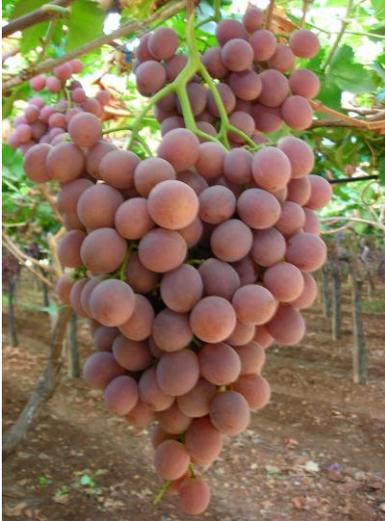
# Victoria



## FEATURES

- White variety. Elongated berries
- Low vigor. High fruitfulness.
- Early harvest period
- Neutral taste. No storage potential.
- Nice yellow color at harvest
- Big bunches with a conical shape
- Naturally large berries
- Tendency to shot berries with cold temperatures during flowering. Manual berry thinning sometimes needed

# Redglobe



## FEATURES

- Red variety. Round to elongated berries
- Successful variety. Spread all over grape growing area.
- Medium to high vigor. Good fruitfulness.
- Late harvest period
- Neutral flavor. Good storage potential
- Large bunches with a conical shape. Need to be trimmed
- Naturally large berries (>28mm)
- Responds well to GA sizing (@15mm) and also CPPU. 10-15ppm GA + 2-5ppm CPPU. Consider color problems
- Do not girdle. Very sensitive to sunburn

# Black Pearl



## FEATURES

- Black variety. Round to elongated berries
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- Medium to high vigor. Good fruitfulness.
- Late harvest period
- Neutral flavor. Very good storage potential
- Large bunches with a conical shape.
- Naturally large berries
- Very sensitive to sunburn.

# Local Varieties

أصناف العنب

أهم أصناف الكرمة المحلية المستخدمة لعنب المائدة

## أصناف العنب

## للـ تفيفيحي

صنف طاولة متأخر، عالي الإنتاجية. يمتاز بكبر عنقوده وحبوبه الحمراء، مقاوم للتوضيب وللشحن ما يجعله مرغوبًا للتصدير .  
**العنقود:** فترة النضوج أيلول، عدد العناقيد في الغصن المثمر 2 - 3، عدد الحبات قليلة (معدل 85 بالعنقود)، الحجم والوزن وسط 675 غ، الطول وسط 26 سم، الكثافة (رصة العنقود) عالية، الانتاجية 22 كلغ/الدالية.  
**النسبة:** قوة النمو عالية



## أصناف العنب

## للـ مغدوشي (الحيفاوي)

يمتاز بنضوجه المبكر، جودة مذاقه، إرتفاع نسبة العصارة والسكر بالإضافة إلى إنتاجه على إرتفاعات منخفضة.  
**العنقود:** الحجم وسط، الوزن 575 غ، الطول 22 سم، رصة العنقود وسط، عدد الحبات قليلة (معدل 100 حبة بالعنقود)، طول العنقود 8,5 سم، الانتاجية 18 كلغ/الدالية  
**النسبة:** قوة النمو متوسطة



## أصناف العنب

## العنب بيتموني

صنف متأخر، معروف في البقاع، يمتاز بإنتاجيته العالية وهو صالح للتصدير نظراً لتحمله معاملات التوضيب والشحن. ينصح بزراعته على إرتفاع بين 900 و 950 م. العنقود فترة النضوج منتصف أيلول، متوسط وزن العنقود 725 غ (كبير)، متوسط الإنتاج 40 كلغ/ الدالية  
 الحبة: كبيرة، 8 غ، لون القشرة أخضر إلى أصفر، قساوة اللب عالية، متوسط الحلاوة، مقاومتها للمعاومة جيدة جداً".  
 النسبة: متوسطة إلى قوية النمو



## أصناف العنب

## العنب بياضي

صنف معروف بشكل خاص في جبل لبنان الجنوبي. يتميز بالمقومات اللازمة لتسويقه كعنب مائدة أو عنب للتصنيع. ينصح بزراعته على إرتفاع بين 700 و 1200 م. العنقود: فترة النضوج أول أسبوع من تشرين الأول على 1100 م، متوسط إلى كبير، 500 غ، الطول أكثر من 30 سم، رصة العنقود خفيفة، عدد الحبات قليلة، طول العنق قصير جداً، الإنتاجية 18 كلغ/الدالية.  
 الحبة: متوسطة، 4،4 غ، بياضوية مستطيلة زيتونية الشكل نسبة السكر في العصير 22،2 بريكس.  
 النسبة: قوة النمو متوسطة إلى قوية





**THANKS!!!!**

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