

# STANDARD FOR CLEARANCE, STORAGE & LOADOUT

MATURITY CLEARANCE STANDARDS

STORING CHARACTERISTIC CODES

SHIP BY RULES



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# INTRODUCTION

This section summarises all the harvest fruit standards and shipping indicators. The information is summarised by variety.

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- ⇒ Maturity Clearance Standards shall be achieved for each maturity area in order to receive a harvest clearance.
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## DEFINITIONS

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- Brix Fractile is the brix value of the third lowest fruit in a 90 fruit sample.
  - Upper Brix Fractile is the brix value of the third highest fruit in a 90 fruit sample
  - Colour Threshold is the flesh colour (hue) 90th percentile (90% of fruit less than or equal to the threshold) of the 90 fruit sample.
  - Soft Fractile is the firmness of the third softest fruit in a 90 fruit sample.
  - Gold Fractile is the flesh colour (hue) of the third lowest hue in a 90 fruit sample.
  - Dry Matter Threshold is the 70th percentile of dry matter (70% of fruit greater than or equal to the threshold) in a 90 fruit sample for Hayward Conventional, Hayward Organic, Green 14, Red19 and the 70th percentile of dry matter estimated by size from a combined 90 fruit size random and 60 fruit small size targeted sample for Gold3.
  - $\geq$  means greater than or equal to.
  - $\leq$  means less than or equal to.
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# ZESPRI VARIETY DESCRIPTOR

## VARIETY NAMES

### NOTE

- Details for trial varieties and non-Zespri varieties can be found in the Data Dictionary section of the EDI Manual.

Legal Variety Name (used on EAN label only)	Business Name	EDI Variety Code	Brand Name
ZESY002	Gold3	GA	SunGold
ZESH004	Green14	HE	Sweet Green
Hayward	Hayward	HW	Green
ZES008	Red19	RS	RubyRed

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# TASTE ZESPRI® STANDARD

## INTRODUCTION

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- Taste is measured using the “Taste Zespri Grade” (TZG).
  - TZG is calculated from the fruit dry matter. For all varieties except Gold3 TZG is calculated for the entire maturity area. For Gold3 TZG is calculated for each size in the maturity area.
  - The TZG Value for every maturity area and size (Gold3 only) must be determined by an approved, independent laboratory prior to harvest.
  - The following laboratories are approved as Zespri Accredited Independent Laboratories for TZG measurement in 2022:
    - Agfirst Consultants Nelson Limited
    - Agfirst Hawkes Bay Consultants Limited
    - Linnaeus Limited
    - Pinpoint Laboratory Services Limited
    - RJ Hill Laboratories Limited
    - Verified Laboratory Services Limited
  - For all varieties except Gold3, where more than one TZG measurement is made for one maturity area, the grower payment will be based on the highest value.
  - For Gold3 where more than one TZG by size measurement is made for one maturity area, the grower payment will be based on the highest submit weighted average TZG for the maturity area based on final gross submit for each maturity area.
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## TASTE BANDS

Fruit is categorised into taste bands based on the Dry Matter Threshold for all varieties. This ensures that fruit delivered to a customer is relatively consistent.

### TASTE BAND

	HAYWARD (HW CK)	HAYWARD ORGANIC (HW OB)	GREEN 14 (HE)	GOLD 3 (GA)	RED19 (RS)
Y	≥16.6	≥16.6	≥18.7	≥17.9	<u>N/A</u>
T	≥16.3 < 16.6	≥16.3 < 16.6	≥17.8 < 18.7	≥17.4 < 17.9	≥MTS
R	≥16.1 < 16.3	≥16.0 < 16.3	≥17.4 < 17.8	≥17.1 < 17.4	N/A
M	≥MTS < 16.1	≥MTS < 16.0	≥MTS < 17.4	≥MTS < 17.1	N/A
MTS	15.5% Dry Matter Threshold	15.5% Dry Matter Threshold	16.2% Dry Matter Threshold	16.1% Dry Matter Threshold	17.2% Dry Matter Threshold

## DEFINITIONS

- MTS = Minimum Taste Standard. The MTS for all varieties except Gold3 assessed at the maturity area level and is based on any maturity clearance sample. The MTS for Gold3 is assessed by size and is based on any maturity clearance sample.

## CONVENTIONAL HAYWARD (HWCK)

MATURITY CLEARANCE STANDARD				
Maturity Criteria	Sample size	Brix °	Dry Matter Threshold <sup>(1)</sup>	% Black Seeds
Kiwistart	90 fruit	Fractile ≥ 4.7° <sup>(2)</sup>	≥ 15.9	97% <sup>(3)</sup>
Main Pack	90 fruit	Mean of 6.2° with not more than 27 fruit ≤ 5.7° <sup>(2)</sup> N/A	> MTS <sup>(4)</sup>	N/A

STORAGE AND SHIPPING			
Submit Week	Storing Characteristic Code <sup>(4)</sup>	Ship by end of week	Pallet Visual
≤ week 15	K	20	KS
week 16 - 19	H	24	<a href="#">KS</a> <a href="#">KAA</a>
-	N	-	-

- Sample size for all clearances: 90 fruit.
- Fruit not submitted to fill a supply cap or contract allocation must meet the Main Pack Maturity Criteria.
- Record days from full bloom for all samples.
- <sup>(1)</sup> A TZG measurement must be completed for all maturity areas (refer to Taste Zespri® Standard on page 5).
- <sup>(2)</sup> All Brix measured equatorially.
- <sup>(3)</sup> A manual dispensation request process is available for Hayward black seeds. Should an MA previously achieve 3 consecutive 100% black seeds sample results (while failing on other criteria) and then on a proceeding sample passes Dry Matter and Brix criteria but fails on black seeds, growers may request a dispensation. This is a request only and would be reviewed with consideration of accumulation of brix from previous sample results. All dispensation requests to be made to maturity.support@zespri.com with the details of KPIN number, maturity area and sample numbers of 3 consecutive 100% black seeds sample results.
- <sup>(4)</sup> Fruit at Main Pack maturity that is submitted under a Kiwistart cap or allocation must have a Dry Matter Threshold ≥ 15.9

### NOTE

- ⦿ <sup>(4)</sup> Facilities may elect to substitute 'N' with storage characteristic code 'S' or 'L'

## CONVENTIONAL AND ORGANIC GOLD3 (GA)

MATURITY CLEARANCE STANDARD						
Maturity Criteria	Dry Matter (70% threshold)	Colour	Brix °			Firmness
		Colour Threshold	Lower Brix Fractile	Upper Brix Fractile	Mean Brix °	Soft Fractile
Kiwistart	≥16.4	≤110.2°	Fractile ≥5.0°			
Advanced Mainpack	≥MTS	≤108.7°		>13.5°	≥8.0°	
Mainpack	≥MTS	≤106.4°			≥8.0°	

- Sample size for all clearances: Refer to Sample Selection (Gold3), Harvest Management section of the Zespri Quality Manual.
- Record days from full bloom and equatorial brix for all samples.
- A TZG measurement must be completed for all maturity areas (refer to Taste Zespri® Standard on page 5).



## STORAGE AND SHIPPING

Submit Week	Clearance Type	Storing Characteristic Code <sup>(1)</sup>	Ship by end of week	Pallet Visual
≤ week 12	Kiwistart	F	17	KS
	Advanced Mainpack			
	Mainpack			
week 13	Kiwistart	G	21	KS
	Advanced Mainpack			
	Mainpack			
≥ week 14	Kiwistart	P	24	KS
	Advanced Mainpack <sup>(2)</sup>	N	N/A	N/A
	Mainpack <sup>(2)</sup>			

## NOTES

- ⦿ <sup>(1)</sup> Facilities may elect to substitute 'N' with storage characteristic code 'S' or 'L'
- ⦿ <sup>(2)</sup> It is recommended that any fruit packed under a Supply Cap or Contract Allocation which achieves an Advanced Mainpack or Mainpack clearance is treated as priority shipping in a Supplier's load out management system

## CONVENTIONAL GREEN14 (HE)

MATURITY CLEARANCE STANDARD			
Maturity Criteria	Minimum Brix °	Dry Matter	% Black Seeds
Main Pack	Fractile $\geq 5.4^\circ$	$\geq$ MTS	$\geq 90\%$ <sup>(1)</sup>

STORAGE AND SHIPPING		
Submit Week	Storing Characteristic Code <sup>(2)</sup>	Pallet Visual
-	N	-

- Sample size for all clearances: 90 fruit.
- Record days from full bloom, softs fractile and equatorial brix for all samples.
- A TZG measurement must be completed for all maturity areas (refer to Taste Zespri® Standard on page 4).
- <sup>(1)</sup> A manual dispensation request process is available for Green14 black seeds. Should an MA previously achieve 3 consecutive 100% black seeds sample results (while failing on other criteria) and then on a proceeding sample passes Dry Matter and Brix criteria, but fails on black seeds, growers may request a dispensation. This is a request only and would be reviewed with consideration of accumulation of brix from previous sample results. All dispensation requests to be made to maturity.support@zespri.com with the details of KPIN number, maturity area and sample numbers of 3 consecutive 100% black seeds sample results.

### NOTES

- ⦿ <sup>(2)</sup> Facilities may elect to substitute 'N' with storage characteristic code 'S' or 'L'

## ORGANIC HAYWARD (HWOB)

MATURITY CLEARANCE STANDARD				
Maturity Criteria	Sample size	Brix °	Dry Matter	% Black Seeds
Kiwistart	90 fruit	Fractile $\geq 4.7^\circ$ <sup>(1)</sup>	$\geq$ MTS	97% <sup>(2)</sup>
Main Pack	90 fruit	Mean of $6.2^\circ$ with not more than 27 fruit $\leq 5.7^\circ$	$\geq$ MTS	N/A

STORAGE AND SHIPPING			
Submit Week	Storing Characteristic Code <sup>(3)</sup>	Ship by end of week	Pallet Visual
$\leq$ week 15	K	20	KS
week 16 - 19	H	24	<a href="#">KS_KAA</a>
-	N	-	-

- ➔ Sample size for all clearances: 90 fruit.
- ➔ Fruit not submitted to fill a supply cap or contract allocation must meet the Main Pack Maturity Criteria.
- ➔ Record days from full bloom for all samples.
- ➔ A TZG measurement must be completed for all maturity areas (refer to Taste Zespri® Standard on page 5).
- ➔ <sup>(1)</sup> All Brix measured equatorially.
- ➔ <sup>(2)</sup> A manual dispensation request process is available for Hayward black seeds. Should an MA previously achieve 3 consecutive 100% black seeds sample results (while failing on other criteria) and then on a proceeding sample passes Dry Matter and Brix criteria, but fails on black seeds, growers may request a dispensation. This is a request only and would be reviewed with consideration of accumulation of brix from previous sample results. All dispensation requests to be made to maturity.support@zespri.com with the details of KPIN number, maturity area and sample numbers of 3 consecutive 100% black seeds sample results.

### NOTES

- ⦿ <sup>(3)</sup> Facilities may elect to substitute 'N' with storage characteristic code 'S' or 'L'

## CONVENTIONAL AND ORGANIC RED19 (RS)

MATURITY CLEARANCE STANDARD				
Maturity Criteria	Sample size	Brix °	Dry Matter	Firmness
Mainpack	90 fruit	Average $\geq 9.0^{\circ}$ <sup>(1)</sup>	$\geq$ MTS	Average $\geq 6.0$ kgf <sup>(2)</sup>

STORAGE AND SHIPPING			
Submit Week	Storing Characteristic Code	Ship by end of week	Pallet Visual
Week 7	0	Week 9	R0
Week 8	1	Week 10	R1
Week 9	2	Week 11	R2
Week 10	3	Week 12	R3
Week 11	4	Week 13	R4
Week 12	5	Week 14	R5
Week 13	6	Week 15	R6
Week 14	7	Week 16	R7
Week 15	8	Week 17	R8
Week 16	9	Week 18	R9

- Sample size for all clearances: 90 fruit.
- Record days from full bloom, softs fractile and equatorial brix for all samples.
- (1) All Brix measured equatorially.
- (2) If a sample has a Firmness Average  $< 6.0$  kgf no further maturity clearance samples will be able to be collected, tested or reported for the blocks relating to the maturity area. A Maturity Clearance Dispensation may be available if Firmness Average  $< 6.0$  kgf. All dispensation requests to be made to [maturity.support@zespri.com](mailto:maturity.support@zespri.com) All Maturity Clearance Dispensations must have a 100 fruit packhouse firmness assessment undertaken immediately after submit to assess the Zespri Grade Standards soft fruit standard (refer to the Grade Standards and Sampling Specifications sections of the Zespri Quality Manual). All Maturity Clearance Dispensations must also have a Post Packing Quality Inspection (PPQI) performed immediately after submit if fruit from the maturity area is destined for China (refer to Section 21 China Fruit Checking Specifications).