

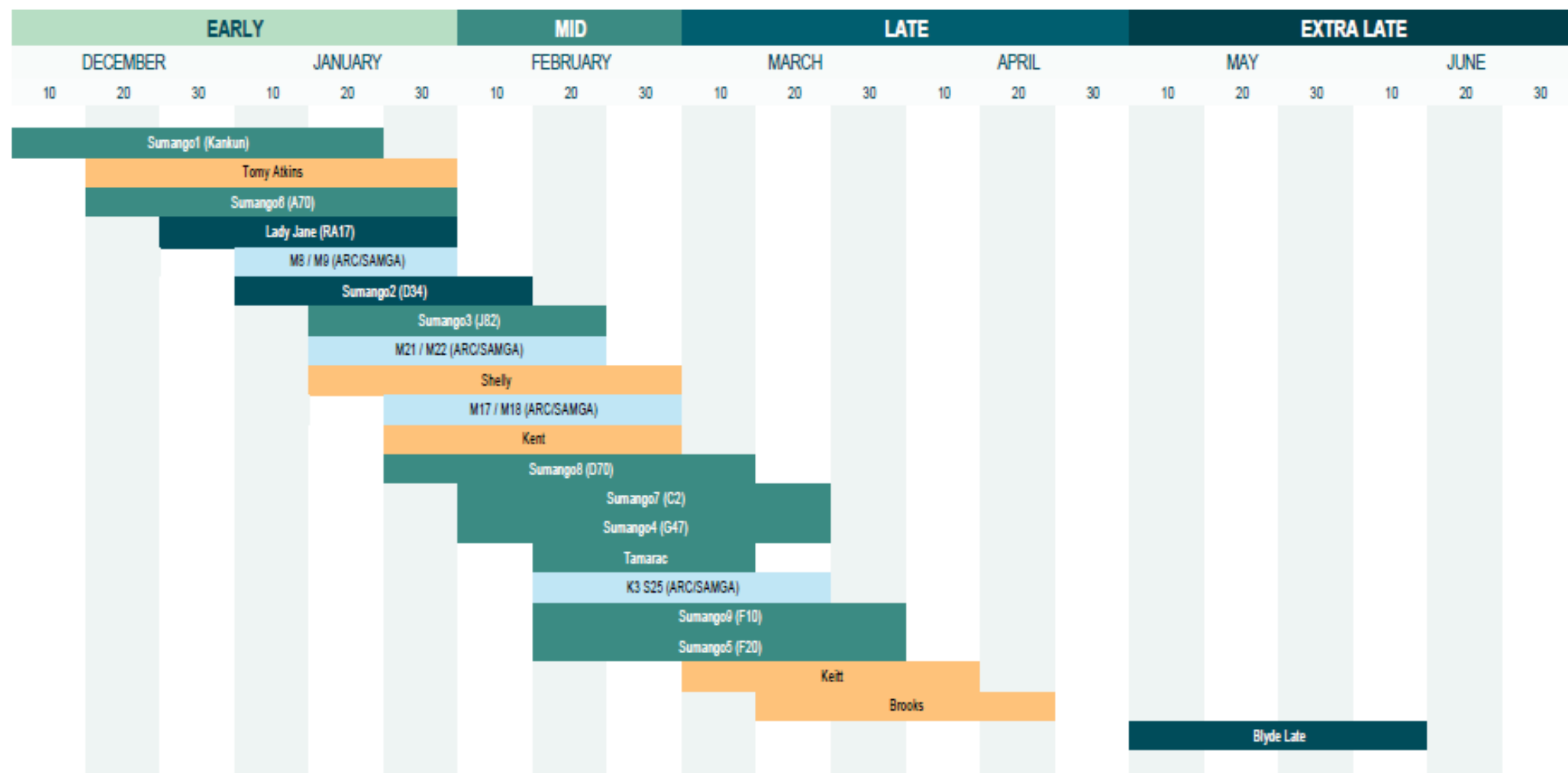
New Available Mango Cultivars – Fact sheet

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- The mango industry has relied heavily on a limited number of older cultivars for many years, with Tommy Atkins still accounting for approximately 32% of all commercial plantings. In recent years, however, several new cultivars have been released and are now available to growers.
- These new options may be worth considering, particularly where growers are looking to extend the production season and reduce pressure during peak periods on both the export and local markets. This document provides an overview of the available new cultivars, including key cultivar information and their expected seasonality.

SUN WORLD MANGO SEASONALITY



COMMERCIAL **PRE-COMMERCIAL** **REF COMMERCIAL**
 PRE-COMMERCIAL (ARC/SAMGA)

This maturity calendar shows extended maturity periods for all areas — starting 3 to 4 weeks earlier in the warmer production regions and ending 3 to 4 weeks later in the cooler production regions in South Africa.

Bar ranges were interpreted from the screenshot and rounded to the nearest 10-day maturity interval.

ARC-MAN-089 (CH31-M17 + 18)

A seedling that originally developed from the cultivar Hood. A selection with a good yield, taste and color. Evaluation of the cultivar was conducted in four main mango production areas namely Hoedspruit, Tzaneen, Malalane and Clanwilliam. Performance was well in all four areas w.r.t. yield and fruit traits.



FRUIT TRAITS & FACTS

Ownership: ARC-Tropical and Subtropical Crops
Status: Cultivar
PBR Registration: ARC-MAN-089
Ripening Period in S.A.: End January to early February in Hoedspruit
Fruit size: Small – Medium, depending on production. Similar to Sensation
 Count 9 – 16.
Fruit shape: Ovate oblong – Similar to Tommy Atkins

Yield:	YIELD (10 TREES) - kg	YIELD (1/ha – 833 TREES)	AVERAGE YIELD (kg/tree)	YEAR
	11.8	1.2	1.5	2021
	2.7	0.2	0.3	2022
	157.2	16.4	19.7	2023
	441.0 (15 trees)	24.5	29.4	2024
	347.3	32.1	38.6	2025

Taste: Very good taste – 8/10. Sweet taste with mango flavor.

Fiber: No fiber – 7/10. Fruit have a firm texture.

External appearance: Light red and green on the tree (before ripening), turning to bright orange/red with yellow/orange. Skin has a waxy layer and almost no lenticels.

Shelf life: Very good – No cold or lenticel damage.



TS-MAN-088 - (CH31-M8 + 9)

SHONA BURST

A seedling that originally developed from the cultivar Palmer. One of the outstanding characteristics of this new cultivar is its excellent cold storage ability. Evaluation of the cultivar was conducted in four main mango production areas namely Hoedspruit, Tzaneen, Malalane and Clanwilliam. Performance was well in all four areas w.r.t. yield and fruit traits.



FRUIT TRAITS & FACTS

Ownership: ARC-Tropical and Subtropical Crops
Status: Cultivar
PBR Registration: TS-MAN-088
Ripening Period in S.A.: mid-January to early February in Hoedspruit
Fruit size: Medium to large. Count 9 – Similar to Shelly
Fruit shape: Roundish Oblique – Similar to Shelly

Yield:	YIELD (10 TREES) - kg	YIELD (1/ha – 833 TREES)	AVERAGE YIELD (kg/tree)	YEAR
	15.5	2.6	3.1	2020
	2.2	0.5	0.6	2021
	20.8	2.5	3.0	2022
	361.9	37.7	45.2	2023
	296.4	24.7	29.6	2024
	22.4	26.6	31.9	2025

Taste: Good taste – 7/10. Good sweet/sour combination with slight mango flavor.

Fiber: No fiber – 7/10. Fruit have a firm texture.

External appearance: Light pink and green on the tree (before ripening), turning to bright pink/red with yellow/orange. Skin has a waxy layer and no lenticels.

Shelf life: Excellent – No cold or lenticel damage.



TS-MAN-087 - (K3-S25)

A seedling that originally developed from a Sensation x Kensington cross. A late selection more suitable for the Tzaneen and Malalane areas. Evaluation of the cultivar was conducted in four main mango production areas namely Hoedspruit, Tzaneen, Malalane and Clanwilliam. Performance was well in some of the areas w.r.t. yield and fruit traits.



FRUIT TRAITS & FACTS

Ownership: ARC-Tropical and Subtropical Crops

Status: Cultivar

PBR Registration: TS-MAN-087

Ripening Period in S.A.: Mid-February to late February in Hoedspruit

Fruit size: Medium to large. Count 7-10 - Similar to Tommy Atkins

Fruit shape: Ovate reniform - Similar to Sensation

Yield:

YIELD (10 TREES) - kg	YIELD (t/ha - 833 TREES)	AVERAGE YIELD (kg/tree)	YEAR
142.4	11.8	14.2	2016
311.3	25.9	31.1	2017
136.3	14.2	17.0	2018
187.2	15.6	18.7	2019
324.3	27.0	32.4	2020
266.0	22.2	26.6	2021
82.0	11.4	13.7	2023
13.5	2.6	2.7	2025

Taste: Good taste - 6/10. Good taste with slight mango flavor.

Fiber: Very little fiber - 6/10. Fruit have a firm texture.

External appearance: Light pink/purple and green on the tree (before ripening), turning to dark red with yellow/orange. Skin has a waxy layer and a few lenticels are visible.

Shelf life: Good - No cold damage, slight lenticel damage.



ARC-MAN-090 (CH31-M21 + 22)

A seedling that originally developed from the cultivar Hood. An outstanding characteristic is the yield performance of this selection. Evaluation of the cultivar was conducted in four main mango production areas namely Hoedspruit, Tzaneen, Malalane and Clanwilliam. Performance was well in all four areas w.r.t. yield and fruit traits.



FRUIT TRAITS & FACTS

Ownership: ARC-Tropical and Subtropical Crops

Status: Cultivar

PBR Registration: ARC-MAN-090

Ripening Period in S.A.: End January to end-February in Hoedspruit

Fruit size: Medium. Count 8 -16 - Similar to Sensation

Fruit shape: Ovate oblong - Similar to Tommy Atkins

Yield:

YIELD (10 TREES) - kg	YIELD (t/ha - 833 TREES)	AVERAGE YIELD (kg/tree)	YEAR
456.6	38.0	45.7	2019
93.5	8.7	10.3	2020
531.6	44.3	53.2	2021
0.3	0.2	0.3	2022
625.0	52.1	62.5	2023
311.0	25.9	31.1	2024
557.4	46.4	55.7	2025

Taste: Good taste - 7/10. Sweet taste with mango flavor.

Fiber: Very little fiber - 6/10. Fruit have a firm texture.

External appearance: Light pink/purple and green on the tree (before ripening), turning to bright orange with yellow/orange. Little lenticel damage is visible in the skin.

Shelf life: Very good - No cold damage, slight lenticel damage.



		Key Traits
	Sumango1 (Kankun)	• Early ripening variety (like Tommy Atkins) • Low fiber contents and good internal quality • External blush • High pack-out and good post-harvest performance • Retailer's positive preliminary feedback
	Sumango2 (D34)	• Early season variety (like Tommy Atkins) • Excellent size distribution for fresh marketing (280-500grams). Strong internal quality and nice taste • Trees are compact and precocious with high return yields. Can set crops under cold conditions with low percentage of parthenocarpic fruit • Handles cold storage for 4 weeks well
	Sumango6 (A70)	• Early season variety in Hoedspruit • Firm texture. Medium yellow flesh with good taste and aroma. • Good eating quality with a 16-17 Brix when mature. • Fruit colors up well during cold storage and can be harvested well colored (tree-ripe) before storage. • Matures at same time as Tommy Atkins.
	Sumango3 (J82)	• Early mid-season (competing with Shelly and slightly earlier than Kent) with extremely vibrant external color. Outstanding taste and good internal quality • Excellent size distribution for fresh marketing • Precocious tree with high yields. Compact growing tree • Suitable to colder sub-tropical regions
	Sumango4 (G47)	• Mid-season variety (competing and slightly later than Kent) • Medium fruit size with wide distribution for fresh marketing (320-520g). Smooth exterior with vibrant color and blush • Strong flavor and creamy internal flesh with total absence of fiber • Robust yields and large open tree

		Key Traits
	Sumango 8 (D70)	• Mid-late season variety with exceptional yield and very strong flavor • Large, open growing tree • Fruit size ideal for fresh marketing. Can be stored for at least 4 weeks after harvest • Serves a market window in South Africa lacking competitive varieties with good color attributes
	Sumango 7 (C2)	• Early to late February (mid-season) in Hoedspruit • Very sweet and tangy taste. Fruit colors up well during cold storage • Semi-circular tree with spreading growth habit • Broadly elliptic shape with a very slight beak and ventral shoulder ending in along curve • Fruit is very attractive when ripe and colors up well under cold storage conditions when harvested at mature green stage
	Sumango 9 (F10)	• Large fruited mid-late season variety (420-800g) • Attractive fruit that serves a market window competing against less-colored commercial varieties • Solid internal quality and flavor • Excellent storage performance – no storage defects detected in normal program. Possibility for fresh-cuts and drying (excellent seed-flesh ratio)
	Sumango 10 (Q54)	• Mid-late season variety • Smaller fruit serving a market window that mainly has big-fruited varieties available (280-500g) • More fruit for pre-pack marketing • Very attractive exterior and excellent eating qualities. High internal quality with strong storage performance
	Sumango 5 (F20)	• Late season high-yielding variety (similar season to Keitt) • Attractive fruit serving market window where most commercial varieties are more green and yellow • Smaller fruit size than Keitt in same season (280-450g). Very high yield and low level of alternate bearing under commercial production program • Strong storage performance, extending the season of colored fruit.

		Key Traits
	RA17 (Lady Jane) Phase 5	• Early season variety (like Tommy Atkins). Outstanding taste, fiber-less and good internal quality and external color. • Excellent size distribution for fresh marketing (280-500grams). • Trees are vigorous. Tropical climate needed to set crops. • Handles cold storage
	Blyde Late Phase 5	• Extremely late maturing (at least 6 weeks later than any other known variety in South Africa) • Opportunity in local markets for growers and marketers in all production areas • Despite late season, fruit has low alternate bearing so far with high return yields • Excellent fruit size and appearance with high sugar content at fully maturity • Unique tangy taste very popular in Asian markets