

Cultivar	Beaumont (695) HYBRID	A4 (Australian HYBRID)	A16 (Australian HYBRID)	Nelmak 2 (N2) HYBRID	791 (Fuji) TRIPLE HYBRID	344 INTEGRIFOLIA	788 INTEGRIFOLIA	816 INTEGRIFOLIA	814 INTEGRIFOLIA	842 / 849 INTEGRIFOLIA
Leaves	 Very spiny (spikey) making pruning uncomfortable.	 Medium length, narrow, pointed tip. Spiny, similar to Nelmak 2.	 Short length, wide, slightly pointed tip. Spiny, similar to Nelmak 2	 Spiny	 Medium length and width with a slightly pointed tip.	 Short length and narrow width with a slightly pointed tip.	 Wavy edges.	 Medium length and width with a rounded tip. Lighter green, smooth edged	 Long and wide with a slightly pointed tip.	 Long, wide, rounded tip. Quite spiny.
Bearing age	 Highly precocious. Bears from Year 3.	 Highly precocious. Bears from Year 3 (slightly earlier than A16)	 Bears from Year 3. Good yields.	 Precocious. Bears from Year 4.	 Very high yields	 Bears from Year 4 - High yields, alternate bearing	 Bears from Year 4 - 5. Relatively low yields: 2 - 2,5t/h	 Bears from Year 4 - 5.	 Precocious - starts yielding early	 Bears from Year 4.
Yield	Highly precocious. Bears from Year 3.	Good yields.	Bears from Year 3. Good yields.							
Fruit visual	Highly precocious. Bears from Year 3.	Good yields.	Bears from Year 3. Good yields.							
Quality	A smaller nut. Average 33% (MPU) - 37% (KZN) TKR	Large oval kernels with thin shells. TKR avg 39 (MPU) - 46% (KZN)	Large oval kernels. Thin shells. TKR avg 35 - 40%	Generally large kernels but can be variable in some seasons. TKR avg 36% (PMU) - 40% (KZN)	Inherent kernel defects ('791 Spot') in some conditions. Up to 40% whole kernel. 31% TKR in MPU. 40% TKR on South Coast.	Flat, ridged, dull cream kernel.	Thick, dense husk. Over 45% TKR. 51% whole kernel.	Perfectly round, creamy white kernels. TKR avg 40% (MPU) - 44% (KZN). Whole kernel	High yields. Small kernels (1,8 - 2g). TKR avg 35-38% 47% whole kernel. Small nuts.	TKR over 35% in hot climate. 842 has slightly higher SKR than 849.
TKR										
Style Spread										
Flowering	 Late: Sept. Crimson flush of richly fragrant flowers.	 Late - Sept. Yellow hue flowers.	 Late: Sept/Oct. Yellow hue flowers	 Late: Sept/Oct Yellow hue flowers. Out of season flower	 Extended out of season flowering. White flowers.	 Early flowering in May/June. Main flowering in Aug / Sept. White flowers.	 Multiple throughout the season, mostly early. White flowers.	 Mid season. White flowers.	 Mid season White flowers.	 First in early July, second in August. White flowers.
Harvesting	June - Sept. Requires physical stripping or Ethapon to release nuts.			Tends to bear in alternate years.	Husk tends to adhere.	Tends to tight bunches, particularly with light flowering		15 - 20% "stick tights" (ie: need to be stripped from the tree).		
Susceptibilities	Blossom Blight. Drought - up to 50% yield decline after dry spell.	Thrips-flush. Wind.	Thrips-flush. Wind - even more so than A4.	Struggles to recover from drought.				Phytophthora. Thrips on new flush. Not tolerant of ethapon.		
Climatic preferences	Doesn't perform well within 100m of sea level. Does better in a cooler climate.	Does better in a cooler climate.	Does better in a cooler climate.	Tends to loose quality at higher altitudes. Does better in a cooler climate.			Good tolerance of salt air & drought conditions. Prefers cooler, low altitudes. Not good in heat.	Needs well-drained soils.	Tolerant to higher altitudes, delivering consistent TKR.	Yields well in heat.
Growth Habits / pruning considerations	 Easily trained. Vigorous growth. Dense canopy.	 Viney, brittle branches - tend to bend/break/lean in wind. Open canopy.	 Very viney (more than A4) and upright, brittle branches - tend to bend/break/lean in wind.	 Spreading - needs little training.	 Open - long vertical stems and horizontal branches - needs training.	 Compact, very dense tree when young. Upright growth habit.	 Open growth habit.	 Very upright. Needs deliberate training from young age to avoid small, late yields.	 Spreading. Lateral branches and wide crotch angles. Easy to train	 Open although 842 tends to be more upright.
General Characteristics or Comments.	Slightly knob-bly husk. Best root stock. Very resilient in SA conditions.	Highly recommended that you make at least one of these a part of your cultivar choices, although A16 is yet to prove itself in the lowveld.		Temperature extremes cause chlorotic-looking young leaf flushes.	Popular in far Northern Mpumalanga.	Light flowering	Easiest cultivar to graft. Different cultivar to the Nelspruit 788.	Light flowering. Needs 15-20% more nitrogen than other cultivars.	Needs 15-20% more nitrogen than other cultivars when in heavy bearing phase.	

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