LEAFLET size medium medium medium frequency of coalescence low n/a n/a waviness of margin weak weak medium depth of veins medium n/a n/a anthocyanin of blade at apical rosette absent n/a absent glossiness of upperside medium medium-dull medium frequency of secondary leaflets (on terminal leaflet) medium n/a n/a frequency of secondary leaflets (on lateral leaflet) n/a low low size of secondary leaflets on laterals small n/a large INFLORESCENCE size n/a large n/a anthocyanin colouration of peduncle absent absent absent frequency of flowers high medium medium-high anthocyanin colouration of bud medium absent absentvery weak FLOWER COROLLA size medium small n/a colour of inner side purple-violet white white (RHS 155C) (RHS 82D) intensity of anthocyanin colouration of inner side in coloured flower medium very weak n/a anthocyanin colouration of outer side in white flower absent n/a absent FRUIT frequency of fruits medium medium few TUBER shape round oval round (round-oval) (round) n/a depth of eyes shallow intermediate n/a smoothness of skin smooth netted-russet flaky colour of skin yellow brown russet (light-brown) colour of base of eyes n/a yellow n/a colour of flesh white white white (white) (white)

*Note: Characteristics of 'FL 1867' are derived from the official (UPOV) South African description. The characteristics of 'Atlantic' are based on those described from Canadian comparative field trials (that included FL 1867). The characteristics of 'Smith's Astra'^(D) are derived from an Australian comparative trial report [PVJ 12 (1)48]. The data in parentheses are from the Australian comparative lightsprout trial and observation of Australian_grown tubers.

n/a

n/a

anthocyanin colouration of skin in reaction to light

absent

PUMPKIN Cucurbita maxima

'Dulong QHI'

Application No: 97/309 Accepted: 21 Nov 1997. Applicant: **The State of Queensland through its Department of Primary Industries,** Brisbane, QLD.

Characteristics (Table 34, Figure 49) Plant: growth habit trailing. Stem: colour green, mostly dark green (RHS 133A) with lighter green (RHS 146C) striped. Leaf Blade: size medium, intensity of green colour upper side medium (RHS 146A). Petiole: length medium, thickness at base medium. Female flower: length of sepal medium, sepals tend to be petalous, intensity of orange colour of pistil at opening medium (RHS 12A). Male flower: length of pedicel medium, diameter of pedicel medium, intensity of green colour of pedicel light, hairiness of pedicel weak, length of sepal medium. Fruit: main colour of pedicel green otherwise corky, size medium, length medium, diameter medium, shape in longitudinal cross section transverse elliptic, shape of stalk-end depressed, shape of apical (blossom end) depressed to flat, grooves present and slightly to moderately deep with medium distance between grooves, number of colours on skin one or two, main colour of skin grey (RHS 198A), intensity of main colour light to medium, secondary colour of skin grey (198B) distribution of secondary colour marbled, texture of surface smooth, warts absent, medium thickness of flesh, main colour of flesh orange (RHS 21A), intensity of main colour of flesh medium. Seed: size medium, shape elliptic, seed surface smooth, seed colour brownish (164C), colour of margins vellowish white (9D) weight of 1000 seeds medium (174g). (Note: all RHS colour chart numbers refer to 1995 edition).

Origin and Breeding Controlled and open pollination followed by selection at each stage: C. maxima 'Queensland Blue' (Selected Strain) was crossed with C. ecuadorensis followed by three backcrosses to 'Selected', 'Large'(Yates Seed Co), and 'Wallworks' strains of 'Queensland Blue', followed by 2 generations of self-pollination and 2 generations of open-pollination, selected separate plants crossed to 'Jarrahdale' (Yates) and to 'W19' [a selection of parentage similar to above] and the resultant progeny were intercrossed, followed by a generation of self-pollination, intercrossed resultant selections, then 1 generation of selfpollination, out-crossed to 'Jarrahdale' (New World), then 7 generations of open pollination (in which initial population included the population of the above crossed with 'Jarrahdale' (SPS), followed by two generations of selfpollination then one generation of open-pollination as combined lines 3214 and 3218. From these lines, through open pollination a uniform stable line known as 3287 was selected to become 'Dulong QHI'. The original seed parent and all commercial parents in the ancestry were characterised by susceptibility to papaya ringspot virus type w and to zucchini yellow mosaic virus and the original pollen parent was characterised by weedy vine growth and white fleshed fruit. Trials conducted at Redlands, Maroochy and Bowen Research Stations of Queensland Department of Primary Industries. Selection criteria: resistance to potyviruses (papaya ringspot virus type w, zucchini yellow mosaic virus, watermelon mosaic virus), yield, grey skinned fruit, and good flesh and consumer characteristics.

Propagation: by seed. Breeder: M. Herrington¹, R. Wright², S. Prytz¹ and D. Persley³, Queensland Horticulture Institute, Nambour¹, Bowen², Indooroopilly³, Queensland Department of Primary Industries, QLD, Australia.

Choice of Comparators 'Jarrahdale', 'Queensland Blue', 'Eudlo QHI' and 'Redlands Trailblazer' were initially considered for the comparative trial as these are similar varieties of common knowledge. 'Queensland Blue' is an older available commercial variety and one of the early parents, however it is highly susceptible to viruses and has dark skin. Therefore it was excluded from the trial. 'Eudlo QHI' was chosen because of its similar pedigree, its high virus resistance and moderately similar fruit type, however it has variable seed colour and a low tendency to produce petalous sepals on female flowers. 'Redlands Trailblazer' was chosen for its high virus resistance, but has white seed. The ancestral parent C. ecuadorensis was not considered for the trial because C. ecuadorensis has a commercially unacceptable weedy plant growth habit, creamy flowers, and white fleshed fruit, which clearly distinguish it from 'Dulong QHI'. Although virus susceptible the most recently used parent 'Jarrahdale' (SPS) was included as a parent in the comparative trial.

Comparative Trial Comparators: 'Jarrahdale', 'Eudlo QHI' and 'Redlands Trailblazer'. Location: Maroochy Research Station, Nambour, QLD (latitude 26°37'. South, longitude 152°57' east, elevation 29m), Mar to Aug 1999. Conditions: trial conducted in field, sown in cells then transplanted to field, overhead irrigated, nutrition maintained with fertiliser applications based on soil test, pest and disease treatments applied as required. Spacings 5m between rows, 2 m between plants within rows. Trial design: randomised complete block design with 5 blocks and 4 plants per plot, with an additional plant of 'Dulong QHI' in each block. Measurements: plants or external characteristics of fruit mostly from twenty individual plants, internal fruit characteristics from mature fruit of ten plants per cultivar. One sample per plant except 2 per plant (flower) for length of sepals.

Prior Applications and Sales Nil.

Description: M. E. Herrington, Maroochy Research Station, Nambour QLD.

Table 34 Cucurbita varieties

	'Dulong' QHI'	*'Eudlo QHI'	*'Redlands' Trailblaze	*'Jarrahdale' r'				
STEM: COLOUR								
	green, dark	green, dark	green, dark	green,				
	(133A)	(133A)	(133A)	C ,				
	with lighter	with lighter	with lighter	uniform				
	(146C)	(137B)	(146C) ((146A)				
	stripes	stripes	stripes					
LEAF BLAD	E: WIDTH (mm)						
mean	307	283	244	277				
std deviation	21.97	17.50	19.95	19.26				
LSD/sig	25.4	ns	P≤0.01	P≤0.01				
LEAF BLAD	LEAF BLADE: LENGTH (mm)							
mean	197	183	167	186				
std deviation	24.20	25.03	28.38	30.30				
LSD/sig	19.7	ns	P≤0.01	ns				
LEAF BLAD	E: LENGTH	/WIDTH RA	TIO					
mean	0.640	0.649	0.682	0.673				
std deviation	0.032	0.032	0.036	0.029				
LSD/sig	0.028	ns	P≤0.01	P≤0.01				
	HICKNESS	at base mm)						
mean	14.0	13 0	124	137				
std deviation	14.9	13.0	12.4	15.7				
LSD/sig	1.59	P<0.01	P<0.01	ns				
FEMALE FL	OWER: LEN	IGTH OF SE	EPAL (mm)					
mean	15.5	12.5	7.4	20.9				
std deviation	3.85	1.95	1.37	4.52				
LSD/sig	5.3	ns	P≤0.01	P≤0.01				
FEMALE FL	OWER: LEN	IGTH OF PE	EDICEL (mn	n)				
mean	25	21	15	27				
std deviation	6.8	3.0	5.8	3.9				
LSD/sig	8	ns	P≤0.01	ns				
FEMALE FL plants with fl	FEMALE FLOWER: PETALOUSNESS OF SEPALS (number of plants with flowers)							
petalous	14	0	0	0				
nonpetalous	2	17	4	6				
	VED. I ENC		I (mm)					
MALE FLU	0 EK: LENG 10 7	10 0F SEPA	12.8	24.1				
mean	19.7	20.2	12.8	24.1				
std deviation	3.55	3.08	2.00 D<0.01	3.08 D<0.01				
LSD/sig	3.0	ns	P≤0.01	P≤0.01				
FRUIT: SIZE	E (g)							
mean	3249	3507	2071	4644				
std deviation	800	1091	460	1543				
LSD/sig	755	ns	P≤0.01	P≤0.01				
FRUIT: SIZE								
	medium	medium	small	medium to large				
FRUIT: LEN	GTH (mm)							
mean	120	142	134	148				
std deviation	9.5	21.2	13.1	19.6				
LSD/sig	17	P≤0.01	ns	P≤0.01				

FRUIT : DIA	METER (mn	n)					
mean	226	224	175	239			
std deviation	18.0	19.2	14.7	27.8			
LSD/sig	21	ns	P≤0.01	ns			
FRUIT : LENGTH/DIAMETER RATIO							
mean	0.536	0.637	0.762	0.624			
std deviation	0.042	0.097	0.061	0.072			
LSD/sig	0.064	P≤0.01	P≤0.01	P≤0.01			
FRUIT: SHA	PE IN LONG	HTUDINAL	CROSS SEC	CTION			
1110111 0111	transverse	transverse	circular	transverse			
	elliptic	elliptic	elliptic	elliptic			
	empire	empue	empue	empue			
FRUIT: SHA	PE OF STAL	K END					
	depressed	depressed	flat	depressed to			
	1	1		flat			
FRUIT: SHA	PE OF APIC	AL (blossom	n) END				
	depressed	depressed	flat	depressed			
	to flat	to flat					
EDUIT: CDO	OVES						
FROM OKU	slight to	slight to	very clight	moderate			
	singin to	singin to	very slight	moderate			
	moderate	moderate		grooves			
	grooves	grooves					
FRUIT DIST	ANCE BETV	VEEN GROO	WFS (mm)				
mean	70	73	56	72			
std deviation	10.4	0.5	9 A	12 0			
	10.4	9.5	0.4 D<0.01	15.0			
LSD/sig	9.0	ns	P≤0.01	ns			
	IBER OF CC		SKIN				
FRUIT. NUN	IBER OF CC	LOUKS OF	SKIN				
		ONE TO TWO	one	$\alpha n a \alpha n \alpha n \alpha$			
	one to two	one to two	one	one to two			
FRI IIT. MAI		OF SKIN	one	one to two			
FRUIT: MAI	N COLOUR	OF SKIN grev (198A	one) grey (198B)			
FRUIT: MAI	N COLOUR grey (198A)	OF SKIN grey (198A	one)grey (198A uniform) grey (198B)			
FRUIT: MAI	N COLOUR grey (198A)	OF SKIN grey (198A) grey (198A uniform) grey (198B)			
FRUIT: MAI	N COLOUR grey (198A)	OF SKIN grey (198A) grey (198A uniform DUR OF SKI) grey (198B)			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF I	OF SKIN grey (198A MAIN COLO) grey (198A uniform DUR OF SKI medium) grey (198B)			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF I light to medium	OF SKIN grey (198A MAIN COLO light to medium) grey (198A uniform DUR OF SKI medium to light) grey (198B) IN medium to light			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF I light to medium	OF SKIN grey (198A MAIN COLO light to medium) grey (198A uniform DUR OF SKI medium to light) grey (198B) IN medium to light			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF I light to medium	OF SKIN grey (198A MAIN COLO light to medium	one) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198B) IN medium to light			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF I light to medium ONDARY CO grey (198B)	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198A) grey (198B) IN medium to light) grey (198C)			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF I light to medium ONDARY CO grey (198B)	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198A uniform) grey (198B) IN medium to light) grey (198C)			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF M light to medium ONDARY CO grey (198B)	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C) grey (198A uniform DUR OF SK medium to light SKIN) grey (198A uniform) grey (198B) IN medium to light) grey (198C)			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF M light to medium ONDARY CC grey (198B) CKNESS OF	OF SKIN grey (198A MAIN COLC light to medium DLOUR OF grey (198C) grey (198A uniform DUR OF SK medium to light SKIN) grey (198A uniform) grey (198B) IN medium to light) grey (198C)			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF M light to medium ONDARY CC grey (198B) CKNESS OF 50	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C) FLESH (mm 47) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198A uniform) grey (198B) IN medium to light) grey (198C) 51			
FRUIT: MAI	N COLOUR grey (198A) ENSITY OF M light to medium ONDARY CC grey (198B) CKNESS OF 50 6.7	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C) FLESH (mm 47 6.4	one) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198A uniform n) 31 3.2) grey (198B) IN medium to light) grey (198C) 51 10.8			
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FRUIT: MAI	N COLOUR grey (198A) ENSITY OF M light to medium ONDARY CC grey (198B) CKNESS OF 50 6.7 9	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C) FLESH (mm 47 6.4 ns	one) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198A uniform n) 31 3.2 P≤0.01) grey (198B) IN medium to light) grey (198C) 51 10.8 ns			
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FRUIT: MAI	N COLOUR grey (198A) ENSITY OF N light to medium ONDARY CC grey (198B) CKNESS OF 50 6.7 9 N COLOUR orange (21A)	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C FLESH (mm 47 6.4 ns OF FLESH variable, yellow	one) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198A uniform n) 31 3.2 P≤0.01 orange (21A)) grey (198B) IN medium to light) grey (198C) 51 10.8 ns orange (21A)			
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FRUIT: MAI	N COLOUR grey (198A) ENSITY OF N light to medium ONDARY CC grey (198B) CKNESS OF 50 6.7 9 N COLOUR orange (21A) ENSITY OF N medium	OF SKIN grey (198A MAIN COLO light to medium DLOUR OF grey (198C FLESH (mm 47 6.4 ns OF FLESH (mm 47 6.4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	one) grey (198A uniform DUR OF SKI medium to light SKIN) grey (198A uniform n) 31 3.2 P≤0.01 orange (21A) DUR OF FLI medium) grey (198B) IN medium to light) grey (198C) 51 10.8 ns orange (21A) ESH medium to dark			
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std deviation LSD/sig	0.39 1.0	1.09 ns	0.49 P≤0.01	0.60 ns				
		DATIO						
SEED: LENGTH/WIDTH RATIO								
mean	1.57	1.55	1.33	1.61				
std deviation	0.056	0.114	0.083	0.104				
LSD/sig	0.14	ns	P≤0.01	ns				
SEED: COLOUR (RHS, 1995)								
	brownish	mixed,	whitish	yellowish				
	(164 C)	28%	(155D)	brownish				
		whitish		(165D)				
		(155D)						
		and 72%						
		vellowish						
		brownish						
		(165D)						
SEED: COLOUR OF MARGIN) (RHS 1995)								
	whitish to	whitish to	whitish	whitish to				
	vellowish	vellowish	(155D)	vellowish				
	(9D)	(10D)		(11C)				
SEED: WEIGHT OF 1000 DRY SEEDS (g)								
mean	174	206	169	227				
std deviation	38.47	40.43	15.86	43.29				
LSD/sig	55.7	ns	ns	P≤0.01				

ROSE

Rosa

'Baby Jack'

Application No: 98/158 Accepted: 18 Sep 1999. Applicant: **Kay-D-Tee**, Silvan, VIC.

Characteristics (Table 35, Figure 1) Plant: habit miniature bushy, height medium, width narrow. Stem: anthocyanin strong, colouration reddish brown. Prickles: present, lower surface deeply concave, small thorn density absent, large thorn density medium. Leaf: size medium, colour at first flowering medium green, upper surface glossiness weak, cross section flat, margin undulation medium. Terminal leaflet: length medium (30mm-47mm), width medium (17mm-26mm), base shape rounded. Flowering shoot: number of flowers many. Flower pedicel: number of hairs many. Bud: shape of longitudinal section just before petal separation ovate. Flower: type double, number of petals medium (25-35), diameter medium (51mm-66mm), view from top irregularly round, profile; upper flat, lower flattened convex, fragrance medium. Sepal: extensions weak. Petals: size medium, inside surface colour; middle zone RHS 157B, marginal zone RHS 65D, basal spot absent, outer surface colour; middle zone RHS 157B, marginal zone RHS 157B, basal spot absent, reflex at margin weak, margin undulation medium. Stamen filament: colouration orange. Seed vessel: size at petal fall medium. Hip: pitcher shaped. Time of flowering: medium (early November). Flowering habit: almost continuous. (Note: all RHS colour chart number refers to 1995 edition.)

Origin and Breeding Spontaneous mutation: from 'Benfig'⁽⁾. The parent is characterised by its porcelain pink flowers, upright habit, and prolific flowering. Selection of the sport took place in Silvan, VIC in 1995 on the basis of