



APPLICATIONS UNDER EXAMINATION

RASPBERRY

RASPBERRY (*Rubus*)

Proposed denomination: 'Joan J'
Application number: 06-5505
Application date: 2006/06/13
Applicant: Derek L. Jennings, Maidstone, Kent, United Kingdom
Agent in Canada: Mathias Dormann, Smart & Biggar, Ottawa, Ontario
Breeder: Derek L. Jennings, Maidstone, Kent, United Kingdom

Variety used for comparison: 'Joan Squire'

Summary: *Bloom on the current season's cane of 'Joan J' is medium whereas it is absent on 'Joan Squire'. The current season's canes of 'Joan J' are shorter than those of 'Joan Squire'. The leaves of 'Joan J' have equally three and five leaflets per leaf whereas 'Joan Squire' has predominantly five leaflets per leaf. The fruit of 'Joan J' is short to medium in length whereas the fruit of 'Joan Squire' is medium to long. The fruit of 'Joan J' is broad conical in lateral view whereas the fruit of 'Joan Squire' is medium conical.*

Description:

PLANT: medium number of current season's canes, fruit bearing both on current season's cane in summer and on current season's cane in autumn

VERY YOUNG SHOOT: no anthocyanin colouration at apex during rapid growth

CANE: mid-season emergence, medium bloom, absent or very weak anthocyanin colouration, short internode, short vegetative bud

SPINES: absent

LEAF: medium green, equally three and five leaflets per leaf, straight to convex profile in cross-section, weak rugosity, overlapping lateral leaflets

FLOWERING: mid-season

PEDICEL: absent or very few spines

PEDUNCLE: no anthocyanin colouration

FLOWER: medium size

FRUIT RIPENING: mid-season

FRUIT: short to medium length, medium in width, medium length/width ratio, broad conical in lateral view, medium size single drupe, medium red, weak glossiness, medium firmness, medium adherence to plug

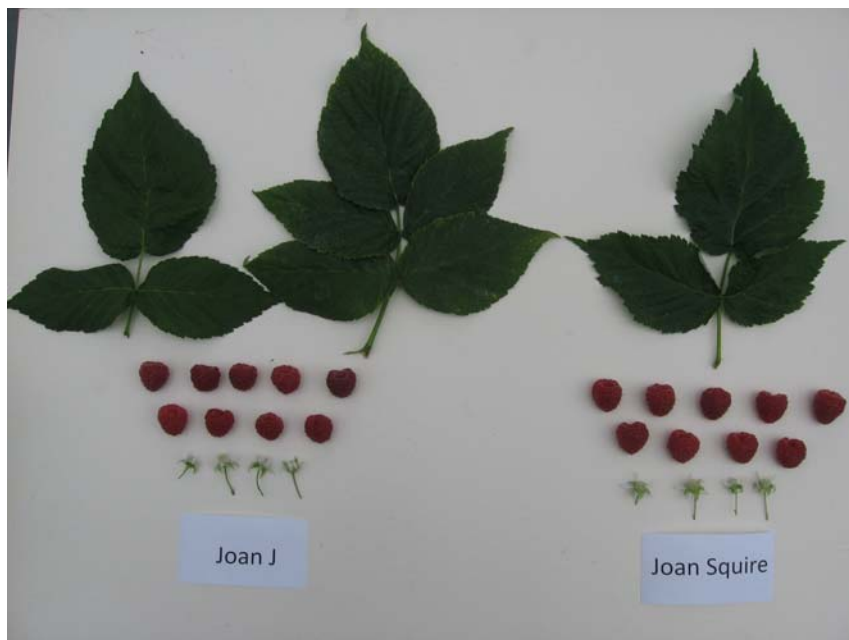
Origin and Breeding: 'Joan J' resulted from crossing 'Joan Squire' (female parent) with 'Terri-Louise' (male parent) which was made in 1993 at Medway Fruits in Maidstone, Kent, United Kingdom. 'Joan J' was first selected in 1995. Selection criteria were earliness of fruiting, fruit size and flavour, fruit productivity and plant growth habit. 'Joan J' was reproduced using vegetative propagation.

Tests and Trials: The tests and trials for 'Joan J' were planted in the spring of 2008 in 21 cm diameter pots filled with a commercial soil-less potting mix and raised in a greenhouse. There were 15 pots spaced 30 cm apart for each variety in the row and spaced one meter apart between rows. Data was collected during the 2008 and 2009 growing seasons.

Comparison table for 'Joan J'

	'Joan J'	'Joan Squire'*
<i>Current season's cane length (cm)</i>		
mean	107.00	128.00
std. deviation	12.78	17.79

*reference variety



Raspberry: 'Joan J' (left) with reference variety 'Joan Squire' (right)



Raspberry: 'Joan J' (left) with reference variety 'Joan Squire' (right)

RASPBERRY
(*Rubus idaeus*)

Proposed denomination: 'Motueka'
Application number: 03-3700
Application date: 2003/06/05
Applicant: Horticultural & Food Research Institute of New Zealand Ltd., Auckland, New Zealand
Agent in Canada: Joy D. Morrow, Smart & Biggar, Ottawa, Ontario
Breeder: Harvey Hall, Horticultural & Food Research Institute of New Zealand Ltd., Auckland, New Zealand

Varieties used for comparison: 'Tulameen' and 'Meeker'

Summary: *The intensity of anthocyanin colouration on the apex of the very young shoot during rapid growth is weak on 'Motueka' whereas it is medium on 'Tulameen' and absent on 'Meeker'. The anthocyanin colouration on the current season's cane is absent or very weak on 'Motueka' and medium on 'Meeker'. 'Motueka' has no spines whereas they are sparse on 'Tulameen' and sparse to medium on 'Meeker'. 'Motueka' has predominantly three leaflets per leaf whereas 'Tulameen' has equally three and five. The terminal leaflet of 'Motueka' is longer than that of 'Meeker'. The fruit shape of 'Motueka' is conical whereas it is broad conical in 'Meeker'. The fruit of 'Motueka' has weak glossiness whereas it is strong on 'Tulameen' and medium on 'Meeker'. The fruit of 'Motueka' has medium firmness whereas it is firm to very firm in 'Tulameen'.*

Description:

PLANT: upright, medium number of current season's canes, fruit bearing only on previous year's cane in summer
VERY YOUNG SHOOT: weak anthocyanin colouration at apex during rapid growth

CANE: mid-season vegetative bud burst, weak to medium bloom, absent or very weak anthocyanin colouration, medium length internode, dormant cane greyish brown in colour
SPINES: absent

LEAF: medium green, predominantly three leaflets per leaf, convex profile in cross-section, strong rugosity, free lateral leaflets

FLOWERING: mid-season
PEDICEL: absent or very few spines
PEDUNCLE: strong anthocyanin colouration
FLOWER: medium size

FRUIT RIPENING: early to mid-season
FRUITING LATERAL: semi-erect
FRUIT: medium length, medium width, medium length/width ratio, conical in lateral view, medium to large single drupe, dark red, weak glossiness, medium firmness, medium adherence to plug

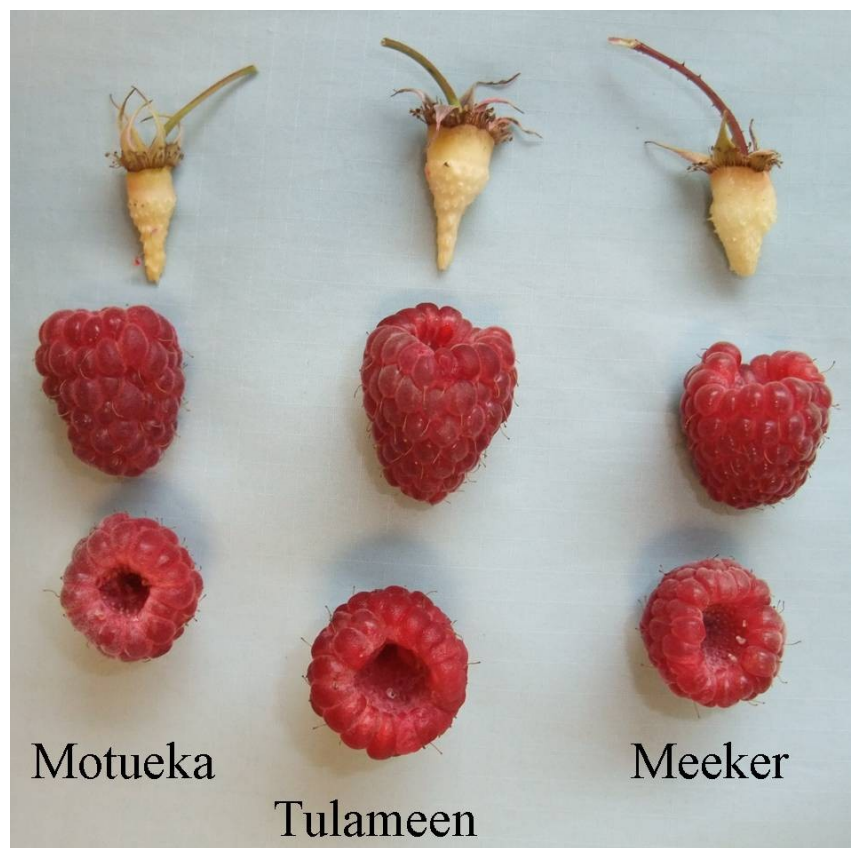
Origin and Breeding: 'Motueka' (experimental designation 'HR57') resulted from crossing 'B257' as the female parent with 'F29' as the male parent, made in September, 1988 at the HortResearch Institute in Nelson, New Zealand. Seed was harvested from the cross in December, 1988 and subsequently treated and sown between May and July, 1989. Field planting was carried out in November, 1989 with selections conducted in December, 1993. 'Motueka' was field trialled for fresh and process market potential during the 1996 to 1999 growing seasons.

Tests and Trials: Tests and trials for 'Motueka' were conducted at the Pacific Agri-Food Research Centre, Clearbrook Substation, near Abbotsford, British Columbia during the 2007 and 2008 growing seasons. Three replicates of each variety were planted in randomized complete block design with 0.9 metres between plants and 3 metres between the rows. Measured characteristics were based on a minimum of 10 measurements.

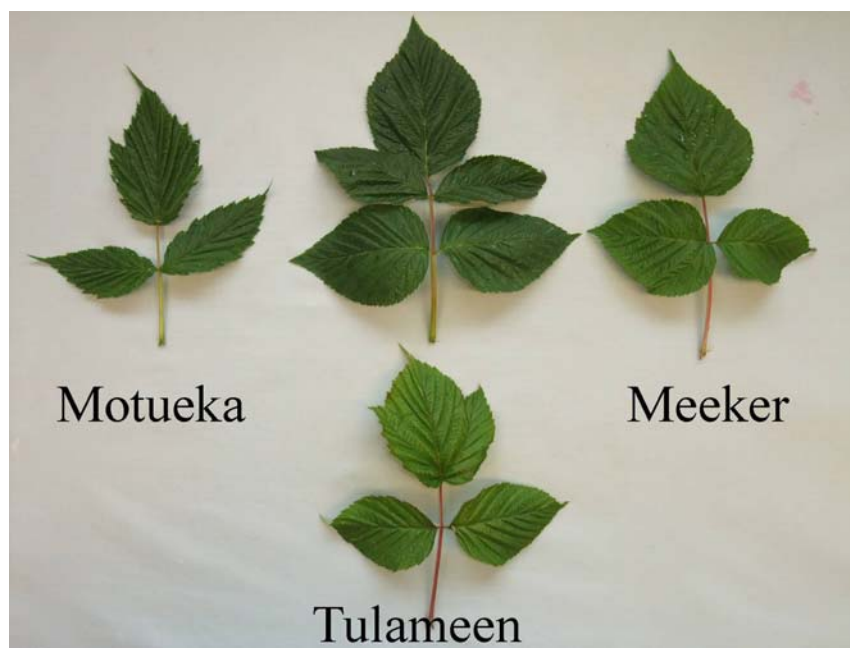
Comparison table for 'Motueka'

	'Motueka'	'Tulameen'*	'Meeker'*
<i>Dormant cane length (cm)</i>			
mean	178.92	281.00	251.00
std. deviation	5.40	17	18
<i>Terminal leaflet length (cm)</i>			
mean	12.63	11.80	10.60
std. deviation	0.70	1.07	0.93
<i>Fruiting lateral length (cm)</i>			
mean	49.16	48.11	56.87
std. deviation	7.34	11.56	12.68

*reference varieties



Raspberry: 'Motueka' (left) with reference varieties 'Tulameen' (centre) and 'Meeker' (right)



Raspberry: 'Motueka' (left) with reference varieties 'Tulameen' (centre) and 'Meeker' (right)

Proposed denomination:	'Moutere'
Application number:	04-4216
Application date:	2004/06/01
Applicant:	Horticultural & Food Research Institute of New Zealand Ltd., Auckland, New Zealand
Agent in Canada:	L. Catherine Eckenswiller, Smart & Biggar, Ottawa, Ontario
Breeder:	Harvey Hall, Horticultural & Food Research Institute of New Zealand Ltd., Auckland, New Zealand

Varieties used for comparison: 'Tulameen' and 'Meeker'

Summary: *There is no anthocyanin colouration on the current season's cane of 'Moutere' whereas it is medium in intensity on 'Meeker'. The internodes on the current season's canes of 'Moutere' are long whereas they are medium in length on 'Meeker'. The dormant canes of 'Moutere' are shorter than those of both reference varieties. 'Moutere' has predominantly five leaflets per leaf whereas 'Tulameen' has equally three and five leaflets and 'Meeker' has predominantly three leaflets. The spines on the pedicel of 'Moutere' are absent to very few whereas 'Meeker' has a medium amount. The fruiting lateral of 'Moutere' is longer than that of both reference varieties. The fruit shape of 'Moutere' is trapezoidal whereas it is conical on 'Tulameen' and broad conical on 'Meeker'. The fruit of 'Moutere' has weak to medium glossiness whereas it is strong on 'Tulameen'. The fruit of 'Moutere' has strong adherence to the plug whereas it is medium in 'Tulameen' and weak in 'Meeker'. The fruit of 'Moutere' begins ripening early in the season whereas 'Tulameen' and 'Meeker' are both mid-season varieties. The fruiting period of 'Moutere' is short to medium in length whereas it is long to very long for 'Tulameen' and medium length for 'Meeker'.*

Description:

PLANT: upright, medium number of current season's canes, fruit bearing only on previous year's cane in summer
VERY YOUNG SHOOT: no anthocyanin colouration at apex during rapid growth

CANE: mid-season vegetative bud burst, weak to medium bloom, absent or very weak anthocyanin colouration, long internode, dormant cane greyish brown in colour
SPINES: sparse, small at base, short, purple

LEAF: medium green, predominantatly five leaflets per leaf, concave profile in cross-section, medium to strong rugosity, free lateral leaflets

FLOWERING: early
 PEDICEL: absent or very few spines
 PEDUNCLE: strong anthocyanin colouration
 FLOWER: medium size

FRUIT RIPENING: early
 FRUITING LATERAL: semi-erect
 FRUIT: medium to long in length, medium to broad in width, medium to large length/width ratio, trapezoidal in lateral view, medium size single drupe, dark red, weak to medium glossiness, medium firmness, strong adherence to plug
 FRUITING PERIOD: short to medium length

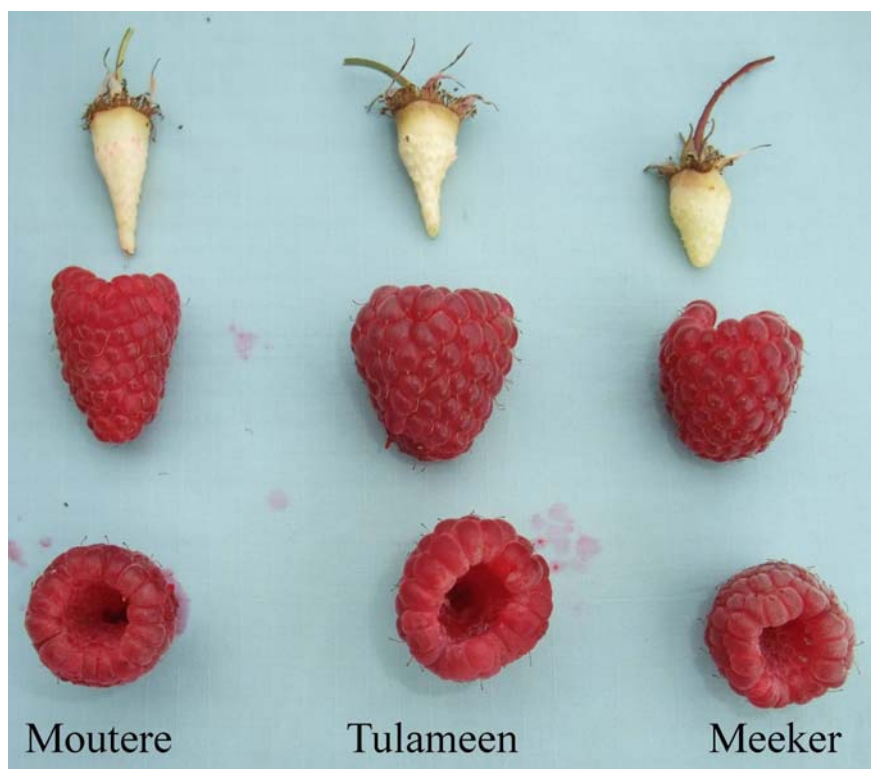
Origin and Breeding: 'Moutere' (triallyed as 'HR112') resulted from crossing 'Haida' as the female parent with 'Qualicum' as the male parent, originally made in 1987 by Agriculture Canada in British Columbia. The resulting seed was sent to HortResearch Institute in Motueka, New Zealand in 1987 and was subsequently treated and sown in July, 1987. Field planting was carried out in November, 1988 with selections conducted in December, 1990. 'Moutere' was field trialled for fresh and process market potential during the 1991 to 1995 growing seasons.

Tests and Trials: Tests and trials for 'Moutere' were conducted at the Pacific Agri-Food Research Centre, Clearbrook Substation, near Abbotsford, British Columbia during the 2007 and 2008 growing seasons. Three replicates of each variety were planted in randomized complete block design with 0.9 metres between plants and 3 metres between the rows. Measured characteristics were based on a minimum of 10 measurements.

Comparison table for 'Moutere'

	'Moutere'	'Tulameen'*	'Meeker'*
<i>Dormant cane length (cm)</i>			
mean	172.58	281.00	251.00
std. deviation	5.26	17	18
<i>Terminal leaflet length (cm)</i>			
mean	10.04	11.80	10.60
std. deviation	0.90	1.07	0.93
<i>Fruiting lateral length (cm)</i>			
mean	65.12	48.11	56.87
std. deviation	10.17	11.56	12.68

*reference varieties

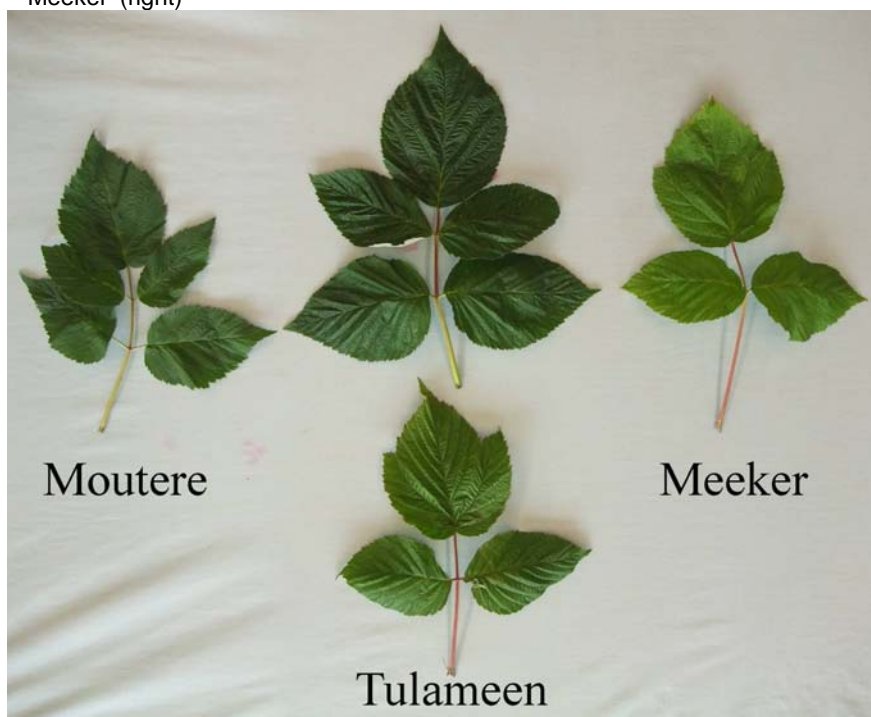


Moutere

Tulameen

Meeker

Raspberry: 'Moutere' (left) with reference varieties 'Tulameen' (centre) and 'Meeker' (right)



Moutere

Meeker

Tulameen

Raspberry: 'Moutere' (left) with reference varieties 'Tulameen' (centre) and 'Meeker' (right)

Proposed denomination: 'Waimea'
Application number: 03-3824
Application date: 2003/08/25
Applicant: Horticultural & Food Research Institute of New Zealand Ltd., Auckland, New Zealand
Agent in Canada: Mathias Dormann, Smart & Biggar, Ottawa, Ontario
Breeder: Harvey Hall, Horticultural & Food Research Institute of New Zealand Ltd., Auckland, New Zealand

Varieties used for comparison: 'Tulameen' and 'Meeker'

Summary: *The plants of 'Waimea' have few current season's canes whereas 'Meeker' has medium to many. The intensity of anthocyanin colouration during rapid growth on the very young shoots of 'Waimea' is absent to very weak whereas it is medium on 'Tulameen'. The dormant canes of 'Waimea' are shorter than those of both reference varieties. 'Waimea' has no spines whereas they are present on both reference varieties. The terminal leaflets of 'Waimea' are narrower than those of both reference varieties. The fruit shape of 'Waimea' is trapezoidal whereas it is conical on 'Tulameen' and broad conical on 'Meeker'. The fruit of 'Waimea' has weak to medium glossiness whereas it is strong on 'Tulameen'.*

Description:

PLANT: upright, few current season's canes, fruit bearing only on previous year's cane in summer
 VERY YOUNG SHOOT: absent to very weak anthocyanin colouration at apex during rapid growth

CANE: mid-season vegetative bud burst, weak to medium bloom, absent or very weak anthocyanin colouration, medium to long internode, dormant cane greyish brown in colour

SPINES: absent

LEAF: medium green, equally three and five leaflets per leaf, concave profile in cross-section, medium to strong rugosity, free lateral leaflets

FLOWERING: mid-season

PEDICEL: absent or very few spines

PEDUNCLE: medium to strong anthocyanin colouration

FLOWER: medium size

FRUIT RIPENING: mid-season

FRUITING LATERAL: semi-erect

FRUIT: medium to long in length, medium to broad in width, medium to large length/width ratio, trapezoidal in lateral view, medium size single drupe, dark red, weak to medium glossiness, medium firmness, medium adherence to plug

Origin and Breeding: 'Waimea' resulted from crossing 'SCRI795B10' as the female parent with 'SCRI82224D4' as the male parent, originally made in May, 1986 at the Scottish Crop Research Institute in Dundee, Scotland with the resulting seed being sent to HortResearch Institute in Nelson, New Zealand. Seed was harvested from the cross in December, 1988 and subsequently treated and sown between May and July, 1986. Field planting was carried out in November, 1986 with selections conducted in January, 1989. 'Waimea' was field trialled for fresh and process market potential during the 1989 to 1993 growing seasons. 'Waimea' was trialled as 'N4.4'.

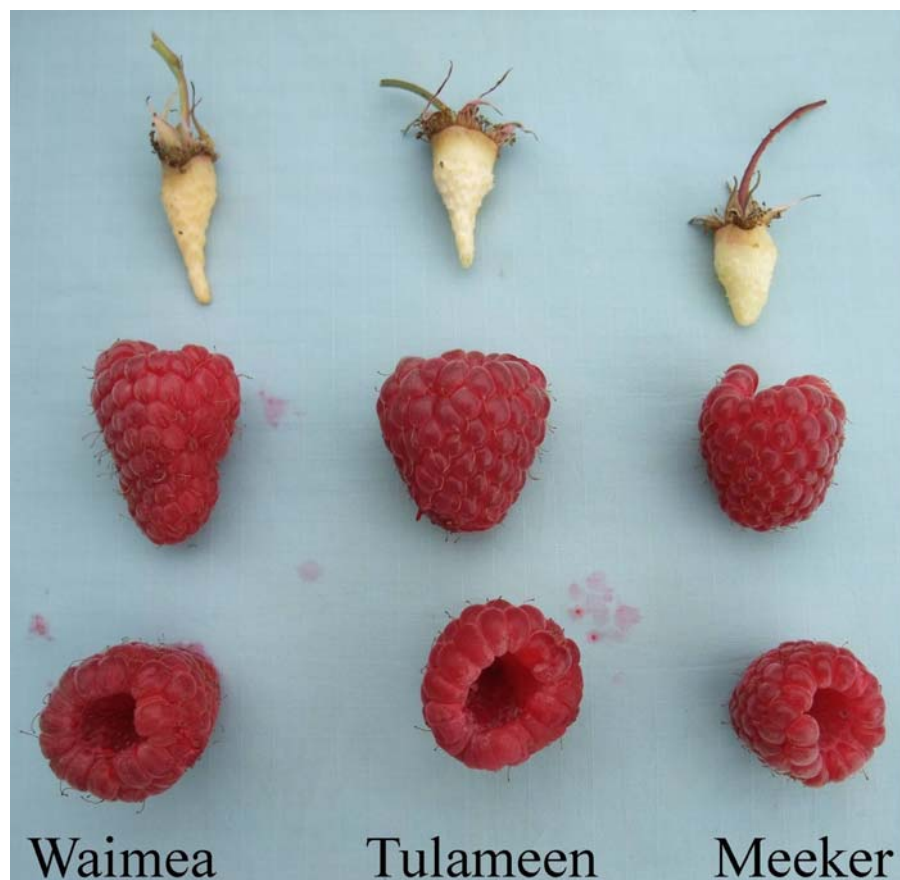
Tests and Trials: Tests and trials for 'Waimea' were conducted at the Pacific Agri-Food Research Centre, Clearbrook Substation, near Abbotsford, British Columbia during the 2007 and 2008 growing seasons. Three replicates of each variety were planted in randomized complete block design with 0.9 metres between plants and 3 metres between the rows. Measured characteristics were based on a minimum of 10 measurements.

Comparison table for 'Waimea'

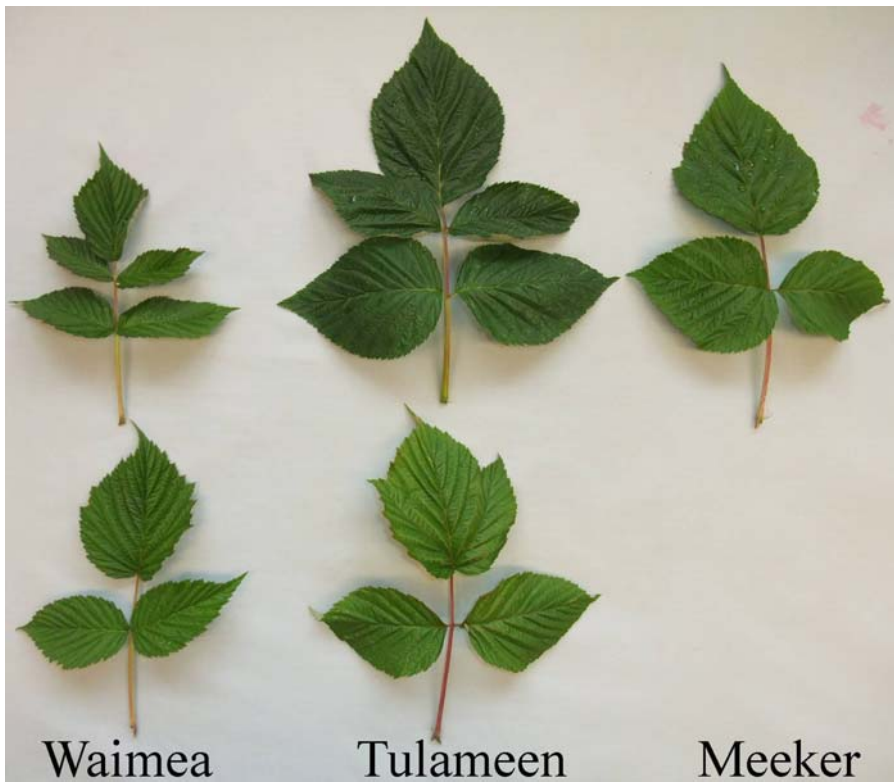
	'Waimea'	'Tulameen'*	'Meeker**
<i>Dormant cane length (cm)</i>			
mean	179.17	281	251
std. deviation	7.67	17	18

<i>Terminal leaflet length (cm)</i>			
mean	9.98	11.80	10.60
std. deviation	0.82	1.07	0.93
<i>Terminal leaflet width (cm)</i>			
mean	7.06	8.57	8.26
std. deviation	0.97	1.37	1.23
<i>Fruiting lateral length (cm)</i>			
mean	61.76	48.11	56.87
std. deviation	10.83	11.56	12.68

*reference varieties



Raspberry: 'Waimea' (left) with reference varieties 'Tulameen' (centre) and 'Meeker' (right)



Raspberry: 'Waimea' (left) with reference varieties 'Tulameen' (centre) and 'Meeker' (right)