

COLOUR OF MIDDLE SECTION OUTERSIDE OF PETAL
(RHS, 1995)

62B 57D

COLOUR OF MARGINAL SECTION OUTERSIDE OF PETAL
(RHS, 1995)

62B 57D

PETAL: SIZE OF BASAL SPOT OUTERSIDE OF PETAL

small large

COLOUR OF BASAL SPOT OUTERSIDE OF PETAL
(RHS, 1995)

156D 155A

OUTER STAMEN (predominant colour of filament)

white yellow

SEED VESSEL SIZE (at petal fall)

medium small

STRAWBERRY

Fragaria x ananassa

'Maroochy Blaze'

Application No: 97/257 Accepted: 7 Oct 1997.

Applicant: **The State of Queensland through its Department of Primary Industries, Brisbane, QLD.**

Characteristics (Table 41, Figure 31) Plant: habit globose, density medium, vigour medium, medium-early maturing. Leaf: colour upper-side medium green (RHS 147A, 1995), shape in transverse cross-section strongly to slightly concave, blistering absent or very weak, glossiness weak to medium. Terminal Leaflet: longer than broad (average ratio 1.09), shape of base obtuse, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules: anthocyanin absent or very weak. Stolons: number many. Inflorescence: position relative to foliage level with. Primary Flower: diameter large (average 36mm) size of calyx relative to corolla same size to slightly larger. Petal: relative position of petals overlapping, length/width ratio as long as broad to broader than long. Fruit: ratio of length to width slightly longer than broad, size large (average 27g), predominant shape wedged to conical or bi-conical, band without achenes narrow to medium, unevenness of surface absent to very weak, external colour dark red (RHS 53A, 1995) and even to slightly uneven, glossiness strong, insertion of achenes below surface, insertion of calyx above fruit, attitude of calyx segments spreading, size of calyx in relation to fruit diameter same size, adherence of calyx to fruit strong, firmness firm, colour of flesh dark red (RHS 44A, 1995), hollow centre weakly expressed, distribution of red colour of flesh marginal and central. Time of flowering and ripening medium-early. Type of bearing partially remontant.

Origin and Breeding Controlled pollination: seed parent 'Chandler' x pollen parent 'Redlands Hope'. The seed parent was characterised by terminal leaflets as long as broad, fruit much longer than broad and soft. The pollen parent was characterised by fruit external colour orange red and internal colour light red. Hybridisation took place in Cleveland, QLD, Australia in 1992. From this cross,

seedling number 93-229 was chosen from among 5000 seedlings at Redlands Research Station, Cleveland in 1993 using the following characteristics and advanced through plot selection trials in 1994, 95 and 96. Selection criteria: yield, yield distribution, earliness, fruit size, external and internal colour, resistance to bruising and abrasion, shelf-life, flavour, attractiveness of fruit, tolerance to disease, ease of harvest, truss type, runner production. Propagation: by runners since first selection. A number of mature stock plants were generated from a virus indexed plant from the evaluated clone and also through tissue culture and were found to be uniform and stable. 'Maroochy Blaze' will be commercially propagated by runners and sometimes following tissue culture from virus indexed stock plants. Breeder: M. E. Herrington, S. Prytz, and J. A. Moisander, Queensland Horticulture Institute, Department of Primary Industries, Nambour and Cleveland, QLD, Australia.

Choice of Comparators Most of the strawberry varieties of common knowledge at the time of the application were excluded on the basis of their flat or convex leaf shape in cross section, inflorescence position above foliage, size of calyx relative to corolla, high length width ratio of fruit, or fruit firmness. The pollen parent 'Redlands Hope' and the seed parent 'Chandler' were included in the comparative trial as the most similar varieties of common knowledge.

Comparative Trial Comparators: 'Redlands Hope', 'Chandler'. Location: Maroochy Research Station, Nambour, QLD (latitude 26°37' South, longitude 152°57' East, elevation 29m), Mar-Apr to Sep 1999. Conditions: trial conducted in a fumigated field, runners from commercial sources ('Chandler'), field station in QLD runner growing district (Stanthorpe), or Maroochy Res Stn Nambour ('Redlands Hope'), reflective polythene mulch, double rows on beds (40cm inter-row, 35cm intra-row and 140cm between bed centres), trickle irrigated and fertilised, pest and disease treatments applied as required. Trial design: randomised complete block design with 4 blocks and 12 plants per plot, significance tested using Duncan's Multiple Range. Measurements: from twenty plants or fruit as five individual plants or harvested fruit sampled per cultivar per block.

Prior Applications and Sales

No prior applications. First Australian sale May 1999. First overseas sale nil.

Description: **M. E. Herrington and S. Prytz, Maroochy Research Station, Nambour and J. Moisander, Redlands Research Station, Cleveland, QLD.**

'Maroochy Flame'

Application No: 97/256 Accepted: 7 Oct 1997.

Applicant: **The State of Queensland through its Department of Primary Industries, Brisbane, QLD.**

Characteristics (Table 41, Figure 32) Plant: habit globose, density medium, vigour medium, early maturing. Leaf: colour upper-side light green (RHS 147B, 1995), shape in transverse cross-section slightly concave to flat, blistering absent or very weak, glossiness weak. Terminal Leaflet: much longer than broad (average ratio 1.2), shape of base very slightly acute, shape of incisions on margin crenate. Petiole: attitude of hairs strongly outwards. Stipules: