



APPLICATIONS UNDER EXAMINATION

POTATO

POTATO (*Solanum tuberosum*)

Proposed denomination: 'AR2008-02'
Application number: 10-6973
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: T. Richard Tam, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Variety used for comparison: 'Russet Burbank'

Summary: *The general shape of the lightsprout of 'AR2008-02' is broad cylindrical while it is ovoid in 'Russet Burbank'. The intensity of anthocyanin colouration on the lightsprout of 'AR2008-02' is absent or very weak while it is medium in 'Russet Burbank'. The lightsprout base of 'AR2008-02' has sparse density of pubescence while it is medium in 'Russet Burbank'. 'AR2008-02' has many number of root tips of the lightsprout while it is medium in 'Russet Burbank'. The plants of 'AR2008-02' are upright while they are semi-upright in 'Russet Burbank'. The colour of base of the tuber eye of 'AR2008-02' is yellow while it is white in 'Russet Burbank'. The tuber flesh of 'AR2008-02' is cream while that of 'Russet Burbank' is white.*

Description:

PLANT: stem type foliage structure, upright, late time of maturity

STEM: absent or very low extent of anthocyanin colouration

LEAVES: medium outline size, closed to intermediate openness, light to medium green colour, absent or very low extent of anthocyanin colouration on midrib of upper side, absent or very weak intensity of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: medium size, narrower than long in relation to length

LEAFLETS: medium presence of secondary leaflets, absent or very low frequency of coalescence, weak waviness of margin, shallow to medium depth of veins, medium to glossy glossiness of the upper side

INFLORESCENCE: low to medium frequency, medium size

FLOWER BUD: absent to very low extent of anthocyanin colouration

COROLLA: medium size, absent or very weak intensity of anthocyanin colouration on inner side, absent or low proportion of blue in anthocyanin colouration on inner side, absent or very low extent of anthocyanin colouration on inner side

PEDUNCLE: absent or very low extent of anthocyanin colouration

TUBER: long shape, shallow depth of eyes, cream flesh

TUBER EYES: yellow eye base

TUBER SKIN: reddish brown

LIGHT SPROUT: small to medium size, broad cylindrical shape, many number of root tips, short length of lateral shoots

LIGHT SPROUT BASE: absent or very weak intensity of anthocyanin colouration, absent or low proportion of blue in anthocyanin colouration, sparse pubescence

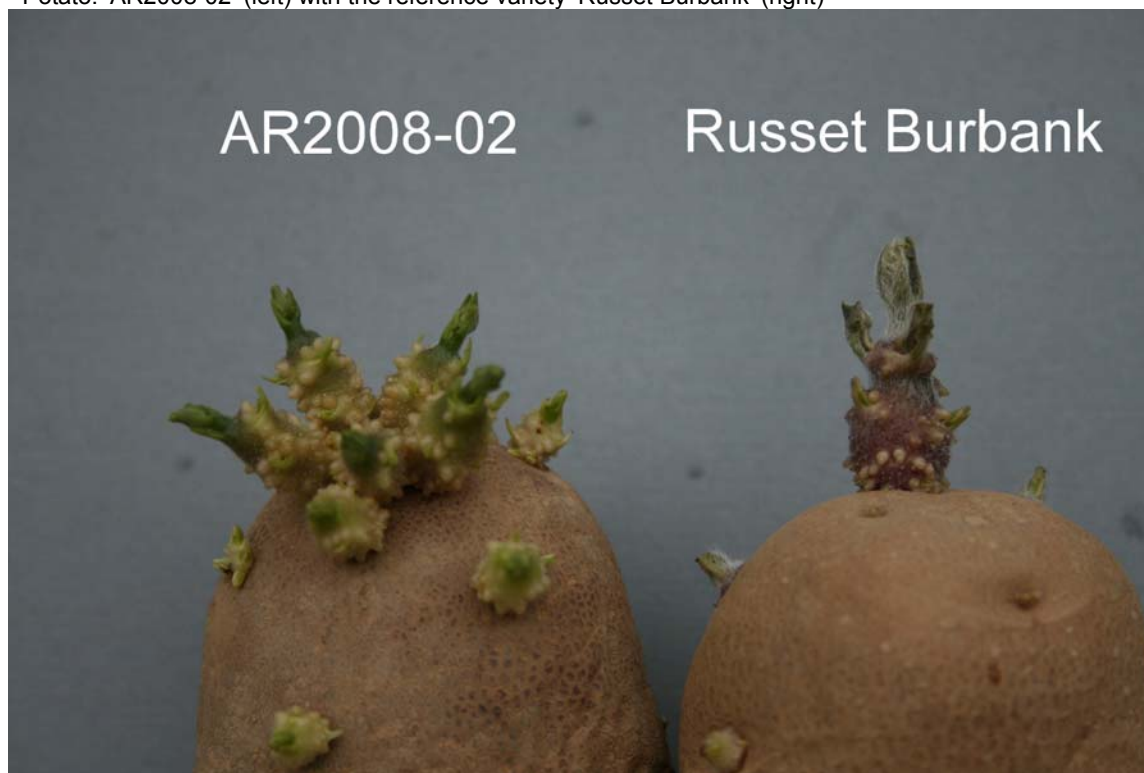
LIGHT SPROUT TIP: small size in relation to base, closed habit, absent or very weak intensity of anthocyanin colouration, medium pubescence

Origin and Breeding: 'AR2008-02' (experimental designations F03006 and 13672-12) originated from the cross of 'Coastal Russet' and 'F92028' made in 2000 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type and French fry potential.

Tests and Trials: Trials for 'AR2008-02' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'AR2008-02' (left) with the reference variety 'Russet Burbank' (right)



Potato: 'AR2008-02' (left) with the reference variety 'Russet Burbank' (right)

Proposed denomination: 'AR2008-03'
Application number: 10-6974
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: T. Richard Tarn, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Variety used for comparison: 'Shepody'

Summary: 'AR2008-03' has medium proportion of blue in anthocyanin colouration at the base of the lightsprout and on the inner side of the flower corolla while 'Shepody' has absent or low blue proportion. The pubescence at the base of the lightsprout is sparse in 'AR2008-03' while it is dense in 'Shepody'. Flower frequency of 'AR2008-03' is low while it is medium in 'Shepody'. 'AR2008-03' has medium to strong intensity and extent of the anthocyanin colouration on inner side of the flower corolla while intensity and extent in 'Shepody' are weak. The time of maturity of 'AR2008-03' is late to very late while it is medium to late in 'Shepody'. The tuber skin of 'AR2008-03' is yellow while it is light beige in 'Shepody'. 'AR2008-03' has a yellow colour at the base of the eye of the tuber while it is white in 'Shepody'. The tuber flesh of 'AR2008-03' is cream while it is white in 'Shepody'.

Description:

PLANT: intermediate type foliage structure, semi-upright, late to very late time of maturity

STEM: absent or very low extent of anthocyanin colouration

LEAVES: medium outline size, intermediate openness, medium to dark green colour, absent or very low intensity and extent of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: small to medium size, narrower than long in relation to length

LEAFLETS: medium presence of secondary leaflets, absent or very low frequency of coalescence, weak to medium waviness of margin, shallow depth of veins, dull to medium glossiness of the upper side

INFLORESCENCE: low frequency, small to medium size

FLOWER BUD: medium extent of anthocyanin colouration

COROLLA: medium size, medium to strong extent and intensity of anthocyanin colouration on inner side, absent or low to medium proportion of blue in anthocyanin colouration on inner side

PEDUNCLE: absent or very low extent of anthocyanin colouration

TUBER: long oval shape, shallow depth of eyes, cream flesh

TUBER EYES: yellow eye base

TUBER SKIN: yellow

LIGHT SPROUT: medium size, ovoid shape, medium number of root tips, short length of lateral shoots

LIGHT SPROUT BASE: medium intensity of anthocyanin colouration, medium proportion of blue in anthocyanin colouration, sparse pubescence

LIGHT SPROUT TIP: small size in relation to base, closed habit, absent or very weak intensity of anthocyanin colouration, medium pubescence

Origin and Breeding: 'AR2008-03' (experimental designations F03008 and 13686-05) originated from the cross of 'GT12016-17' and 'ND6993-13' made in 2000 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type and French fry or fresh market potential.

Tests and Trials: Trials for 'AR2008-03' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'AR2008-03' (left) with the reference variety 'Shepody' (right)



Potato: 'AR2008-03' (left) with the reference variety 'Shepody' (right)

Proposed denomination: 'AR2008-09'
Application number: 10-6975
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: Agnes Murphy, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Varieties used for comparison: 'Rochdale Gold-Dorée' and 'Yukon Gold'

Summary: *The general shape of the lightsprout of 'AR2008-09' is spherical while it is ovoid in 'Rochdale Gold-Dorée'. The lightsprout base of 'AR2008-09' has medium proportion of blue in anthocyanin colouration while it is absent or low in 'Yukon Gold'. The lightsprout base of 'AR2008-09' has absent or very sparse density of pubescence while it is sparse in 'Rochdale Gold-Dorée' and dense in 'Yukon Gold'. 'AR2008-09' has medium number of root tips of the lightsprout while it is few in 'Yukon Gold'. The stem of 'AR2008-09' has absent of very low extent of anthocyanin colouration while it is low in 'Yukon Gold'. The flower corolla of 'AR2008-09' has strong to very strong intensity of anthocyanin colouration on inner side while it is absent or very low in 'Rochdale Gold-Dorée' and weak to medium in 'Yukon Gold'. The flower corolla of 'AR2008-09' has high proportion of blue in anthocyanin colouration on inner side while it is absent or low in 'Rochdale Gold-Dorée' and medium in 'Yukon Gold'. The flower corolla of 'AR2008-09' has high extent of anthocyanin colouration on inner side while it is absent or very low in 'Rochdale Gold-Dorée' and medium in 'Yukon Gold'. The time of maturity of 'AR2008-09' is late while it is medium in 'Yukon Gold'. The tuber shape of 'AR2008-09' is round while it is oval in 'Yukon Gold'. 'AR2008-09' has a yellow colour at the base of the eye of the tuber while it is red in 'Yukon Gold'. The tuber flesh of 'AR2008-09' is medium yellow while it is light yellow in 'Yukon Gold'.*

Description:

PLANT: intermediate type foliage structure, upright to semi-upright, late time of maturity

STEM: absent or very low extent of anthocyanin colouration at the base only

LEAVES: medium outline size, closed to intermediate openness, medium to dark green colour, absent or very low extent of anthocyanin colouration on midrib of upper side, absent or very weak to weak intensity of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: medium to large size, narrower than long in relation to length

LEAFLETS: medium presence of secondary leaflets, absent or very low frequency of coalescence, medium to strong waviness of margin, shallow depth of veins, medium glossiness of the upper side

INFLORESCENCE: low to medium frequency, small to medium size

FLOWER BUD: high extent of anthocyanin colouration

COROLLA: medium to large size, strong to very strong intensity of anthocyanin colouration on inner side, high proportion of blue in anthocyanin colouration on inner side, high extent of anthocyanin colouration on inner side

PEDUNCLE: absent or very low extent of anthocyanin colouration

TUBER: round shape, shallow depth of eyes, medium yellow flesh

TUBER EYES: yellow eye base

TUBER SKIN: yellow

LIGHT SPROUT: small to medium size, spherical shape, medium number of root tips, short length of lateral shoots

LIGHT SPROUT BASE: medium intensity of anthocyanin colouration, medium proportion of blue in anthocyanin colouration, absent or very sparse pubescence

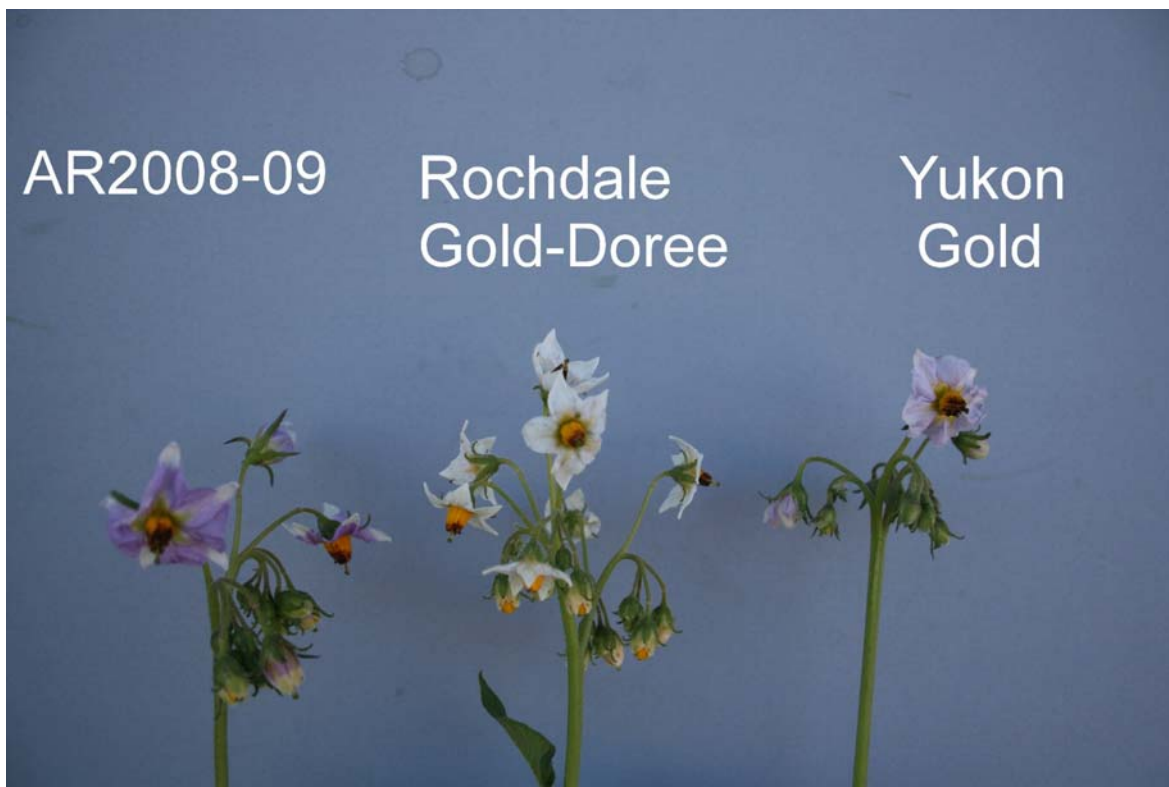
LIGHT SPROUT TIP: medium size in relation to base, intermediate habit, medium intensity of anthocyanin colouration, dense pubescence

Origin and Breeding: 'AR2008-09' (experimental designations F03032 and 13813-01) originated from the cross of 'N0634-07' and 'Rochdale Gold-Dorée' made in 2001 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type and fresh market potential.

Tests and Trials: Trials for 'AR2008-09' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'AR2008-09' (left) with reference varieties 'Rochdale Gold-Dorée' (centre) and 'Yukon Gold' (right)



Potato: 'AR2008-09' (left) with reference varieties 'Rochdale Gold-Dorée' (centre) and 'Yukon Gold' (right)

Proposed denomination: 'AR2008-10'
Application number: 10-6976
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: Agnes Murphy, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Varieties used for comparison: 'Rochdale Gold-Dorée' and 'Yukon Gold'

Summary: *The general shape of the lightsprout of 'AR2008-10' is spherical while it is ovoid in 'Rochdale Gold-Dorée'. The lightsprout base of 'AR2008-10' has medium proportion of blue in anthocyanin colouration while it is absent or low on 'Yukon Gold'. The lightsprout base of 'AR2008-10' has sparse density of pubescence while it is dense on 'Yukon Gold'. 'AR2008-10' has medium number of root tips of the lightsprout while it is few in 'Yukon Gold'. The plants of 'AR2008-10' are semi-upright while they are upright in 'Yukon Gold'. 'AR2008-10' has absent or very weak intensity and extent of anthocyanin colouration on the corolla while 'Yukon Gold' has weak to medium intensity and medium extent. The flower corolla of 'AR2008-10' has no or low proportion of blue in anthocyanin colouration on inner side while 'Yukon Gold' has a medium proportion. The tuber shape of 'AR2008-10' is short oval while it is round in 'Rochdale Gold-Dorée' and oval in 'Yukon Gold'.*

Description:

PLANT: stem type foliage structure, semi-upright, medium to late time of maturity

STEM: absent or very low extent of anthocyanin colouration

LEAVES: medium outline size, intermediate openness, medium to dark green colour, absent or very low extent of anthocyanin colouration on midrib of upper side, absent or very weak to weak intensity of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: medium to large size, narrower than long in relation to length

LEAFLETS: medium presence of secondary leaflets, absent or very low frequency of coalescence, medium waviness of margin, shallow depth of veins, medium glossiness of the upper side

INFLORESCENCE: medium frequency, medium size

FLOWER BUD: absent or very low extent of anthocyanin colouration

COROLLA: medium size, absent or very weak intensity of anthocyanin colouration on inner side, absent or low proportion of blue in anthocyanin colouration on inner side, absent or very low extent of anthocyanin colouration on inner side

PEDUNCLE: absent or very low extent of anthocyanin colouration

TUBER: short oval shape, shallow to medium depth of eyes, light yellow flesh

TUBER EYES: yellow eye base

TUBER SKIN: yellow

LIGHT SPROUT: medium size, spherical shape, medium number of root tips, medium length of lateral shoots

LIGHT SPROUT BASE: medium intensity of anthocyanin colouration, medium proportion of blue in anthocyanin colouration, sparse pubescence

LIGHT SPROUT TIP: medium size in relation to base, closed habit, weak intensity of anthocyanin colouration, dense pubescence

Origin and Breeding: 'AR2008-10' (experimental designations F03033 and 13813-02) originated from the cross of 'N0634-07' and 'Rochdale Gold-Dorée' made in 2001 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type and fresh market potential.

Tests and Trials: Trials for 'AR2008-10' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'AR2008-10' (left) with the reference varieties 'Rochdale Gold-Dorée' (centre) and 'Yukon Gold' (right)



Potato: 'AR2008-10' (left) with the reference varieties 'Rochdale Gold-Dorée' (centre) and 'Yukon Gold' (right)

Proposed denomination: 'AR2008-12'
Application number: 10-6977
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: Agnes Murphy, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Varieties used for comparison: 'AC Chaleur' and 'Yukon Gold'

Summary: *The lightsprout shape of 'AR2008-12' is broad cylindrical while it is spherical in 'Yukon Gold'. 'AR2008-12' has medium proportion of blue in anthocyanin colouration at the base of the lightsprout while it is absent or low in 'Yukon Gold'. The pubescence at the base of the lightsprout of 'AR2008-12' is absent or very sparse while it is medium in 'AC Chaleur' and dense in 'Yukon Gold'. The flower corolla of 'AR2008-12' has absent or very weak intensity and extent of anthocyanin colouration on inner side while 'Yukon Gold' has a weak to medium intensity and a medium extent. 'AR2008-12' has absent or very low proportion of blue in the anthocyanin colouration on the inner side of the corolla while it is medium in 'Yukon Gold'. The time of maturity of 'AR2008-12' is late to very late while it is medium to late in 'AC Chaleur' and medium in 'Yukon Gold'. The tuber of 'AR2008-12' is oval in shape while the tuber is round in 'AC Chaleur'. The tuber skin of 'AR2008-12' is light beige while it is yellow in 'Yukon Gold'. 'AR2008-12' has a white colour at the base of the eye of the tuber while it is red in 'Yukon Gold'. The tuber flesh of 'AR2008-12' is cream while it is white in 'AC Chaleur' and light yellow in 'Yukon Gold'.*

Description:

PLANT: stem type foliage structure, upright, late to very late time of maturity

STEM: absent or very low extent of anthocyanin colouration

LEAVES: small outline size, intermediate openness, dark green colour, absent or very low intensity and extent of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: medium size, narrower than long in relation to length

LEAFLETS: weak to medium presence of secondary leaflets, absent or very low frequency of coalescence, strong waviness of margin, medium depth of veins, medium to glossy glossiness of the upper side

INFLORESCENCE: medium to high frequency, medium size

FLOWER BUD: absent or very low extent of anthocyanin colouration

COROLLA: medium size, absent or very weak extent and intensity of anthocyanin colouration on inner side, absent or low proportion of blue in anthocyanin colouration on inner side

PEDUNCLE: absent or very low extent of anthocyanin colouration

TUBER: oval shape, medium depth of eyes, cream flesh

TUBER EYES: white eye base

TUBER SKIN: light beige

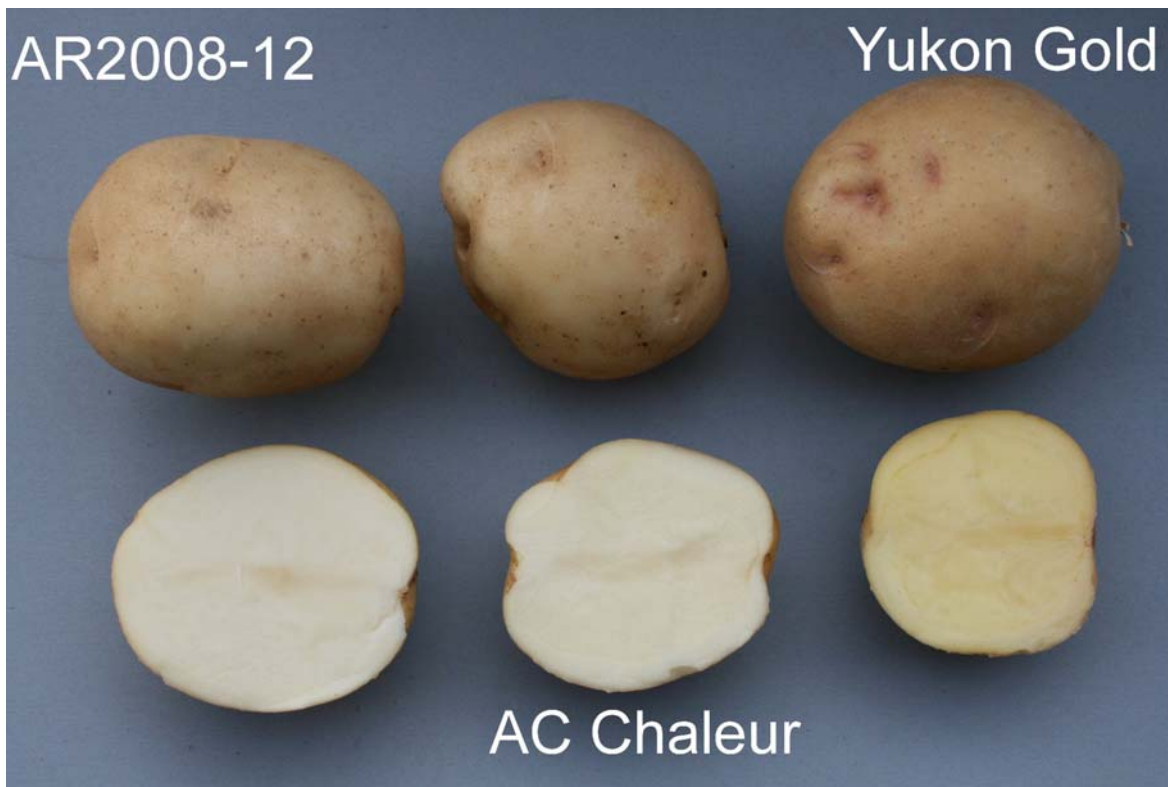
LIGHT SPROUT: medium size, broad cylindrical shape, medium to many number of root tips, short length of lateral shoots

LIGHT SPROUT BASE: medium intensity of anthocyanin colouration, medium proportion of blue in anthocyanin colouration, absent or very sparse pubescence

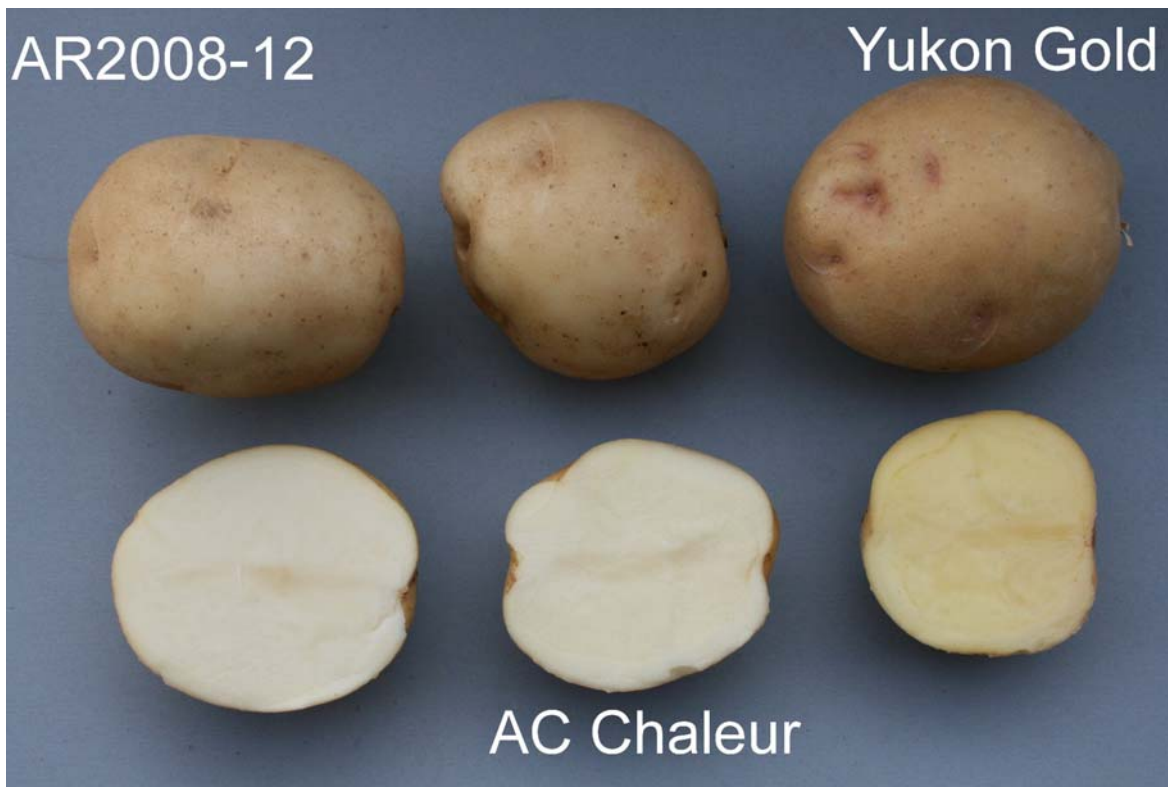
LIGHT SPROUT TIP: small size in relation to base, closed habit, absent or very weak intensity of anthocyanin colouration, absent to very sparse pubescence

Origin and Breeding: 'AR2008-12' (experimental designations F03040 and 13814-09) originated from the cross of 'N0637-6' and 'AC Chaleur' made in 2000 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type and fresh market potential.

Tests and Trials: Trials for 'AR2008-12' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'AR2008-12' (left) with the reference varieties 'AC Chaleur' (centre) and 'Yukon Gold' (right)



Potato: 'AR2008-12' (left) with the reference varieties 'AC Chaleur' (centre) and 'Yukon Gold' (right)

Proposed denomination: 'AR2008-13'
Application number: 10-6978
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: Agnes Murphy, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Varieties used for comparison: 'AC Chaleur' and 'Yukon Gold'

Summary: *The general shape of the lightsprout of 'AR2008-13' is broad cylindrical while it is conical in 'AC Chaleur' and spherical in 'Yukon Gold'. 'AR2008-13' has strong intensity of anthocyanin colouration at the base of the lightsprout while it is medium in 'Yukon Gold'. 'AR2008-13' has high proportion of blue in anthocyanin colouration at the base of the lightsprout while it is medium in 'AC Chaleur' and absent or low in 'Yukon Gold'. 'AR2008-13' has many root tips on the lightsprout while it is medium in 'AC Chaleur' and few in 'Yukon Gold'. The growth habit of 'AR2008-13' is semi-upright while it is upright in the reference varieties. The extent of anthocyanin colouration of the stem of 'AR2008-13' is medium while it is absent or very low in 'AC Chaleur' and low in 'Yukon Gold'. 'AR2008-13' has absent or very weak intensity and extent of anthocyanin colouration on inner surface of the corolla while the intensity is weak to medium and the extent is medium in 'Yukon Gold'. The time of maturity of 'AR2008-13' is late while it is medium in 'Yukon Gold'. The tuber shape of 'AR2008-13' is oval while it is round in 'AC Chaleur'. The tuber skin of 'AR2008-13' is light beige while it is yellow in 'Yukon Gold'. The tuber flesh of 'AR2008-13' is white while it is light yellow in 'Yukon Gold'.*

Description:

PLANT: leaf type foliage structure, semi-upright, late time of maturity

STEM: medium extent of anthocyanin colouration along the entire stem

LEAVES: medium outline size, open, dark green colour, low intensity and extent of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: small size, narrower than long in relation to length

LEAFLETS: weak to medium presence of secondary leaflets, absent or very low frequency of coalescence, weak waviness of margin, shallow depth of veins, medium to glossy glossiness of the upper side

INFLORESCENCE: medium frequency, medium size

FLOWER BUD: medium extent of anthocyanin colouration at the sepal base

COROLLA: medium size, absent or very weak extent and intensity of anthocyanin colouration on inner side, absent or low proportion of blue in anthocyanin colouration on inner side

PEDUNCLE: medium extent of anthocyanin colouration

TUBER: oval shape, shallow to medium depth of eyes, white flesh

TUBER EYES: yellow eye base

TUBER SKIN: light beige

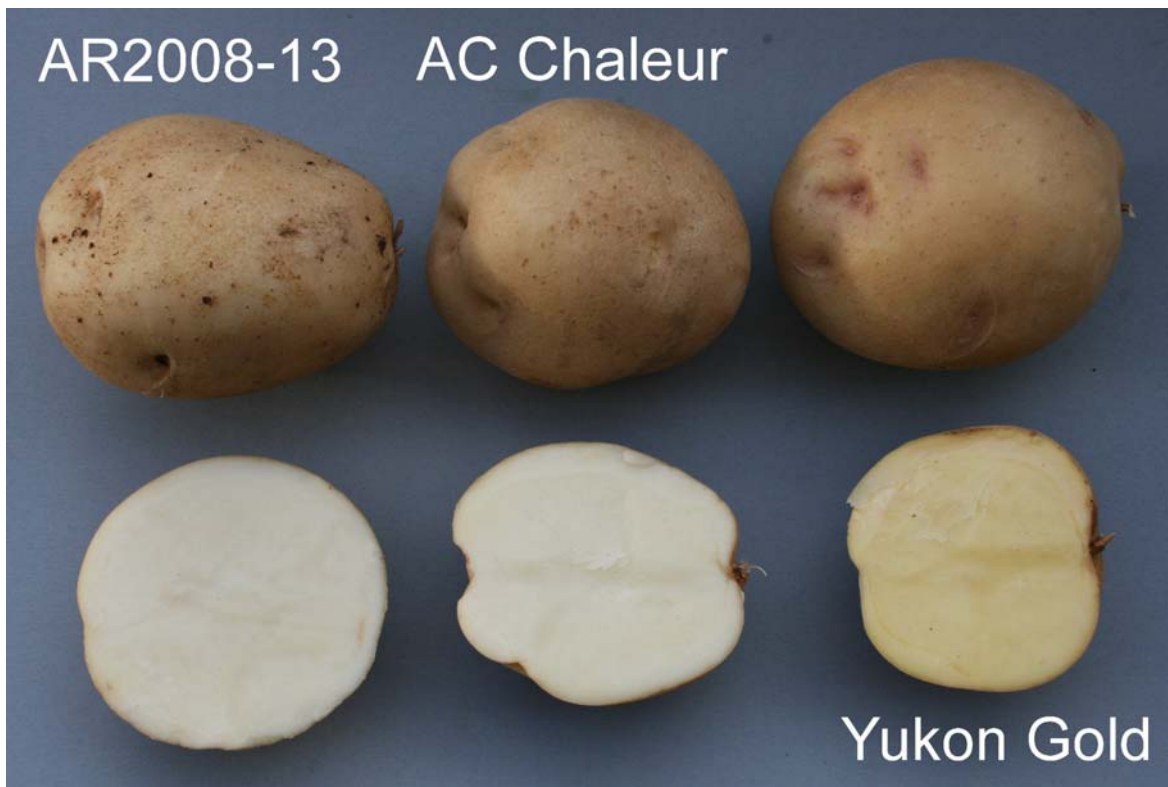
LIGHT SPROUT: medium size, broad cylindrical shape, many number of root tips, short length of lateral shoots

LIGHT SPROUT BASE: strong intensity of anthocyanin colouration, high proportion of blue in anthocyanin colouration, medium pubescence

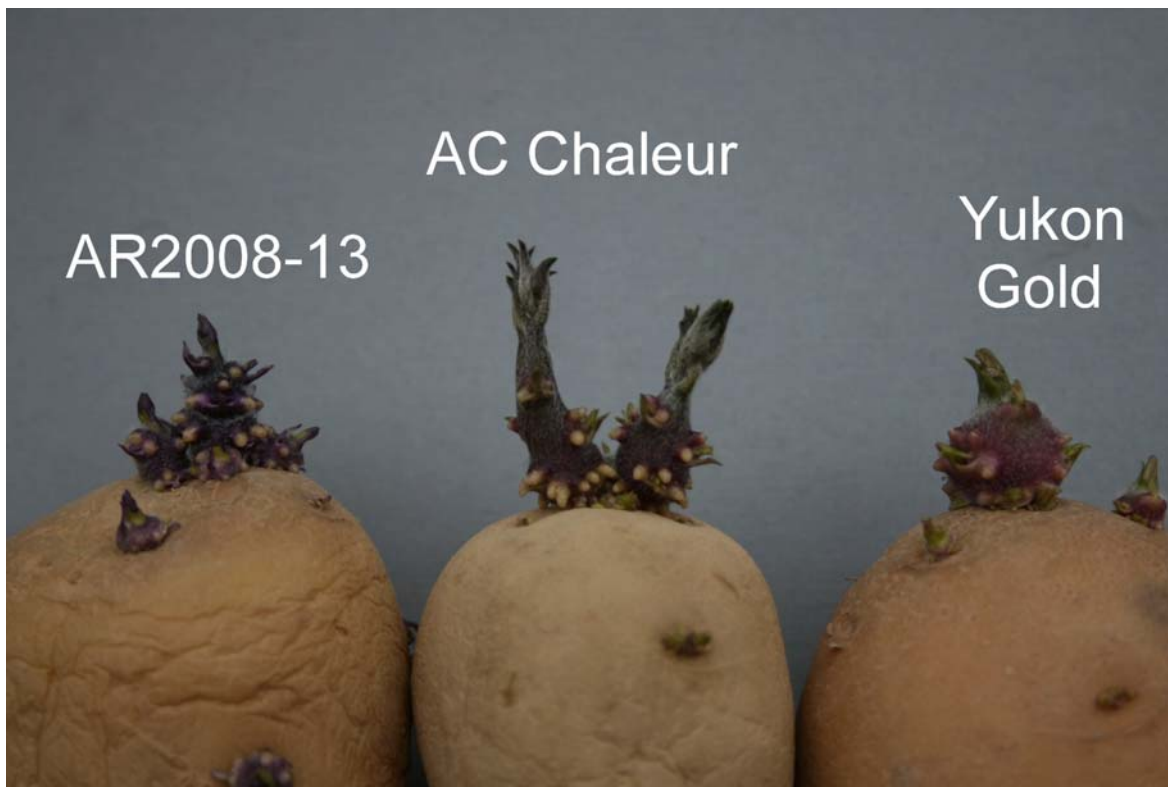
LIGHT SPROUT TIP: small size in relation to base, closed habit, strong intensity of anthocyanin colouration, medium pubescence

Origin and Breeding: 'AR2008-13' (experimental designations F03048 and 13817-03) originated from the cross of 'N1700-8' and 'AC Chaleur' made in 2000 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type and fresh market potential.

Tests and Trials: Trials for 'AR2008-13' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'AR2008-13' (left) with the reference varieties 'AC Chaleur' (centre) and 'Yukon Gold' (right)



Potato: 'AR2008-13' (left) with the reference varieties 'AC Chaleur' (centre) and 'Yukon Gold' (right)

Proposed denomination: 'AR2009-10'
Application number: 10-6979
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: Agnes Murphy, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Varieties used for comparison: 'Congo' and 'Shepody'

Summary: *The general shape of the lightsprout of 'AR2009-10' is broad cylindrical while it is narrow cylindrical in 'Congo' and ovoid in 'Shepody'. 'AR2009-10' has very strong intensity of anthocyanin colouration at the base of the lightsprout while it is medium in 'Shepody'. 'AR2009-10' has high proportion of blue in anthocyanin colouration at the base of the lightsprout while it is absent or very low in 'Shepody'. The pubescence at the base of the lightsprout is sparse in 'AR2009-10' while it is absent or very sparse in 'Congo' and dense in 'Shepody'. The stem of 'AR2009-10' has high extent of anthocyanin colouration while it is absent or very low in 'Shepody'. The flower corolla of 'AR2009-10' has absent or very weak intensity of anthocyanin colouration on inner side while it is medium to strong in 'Congo' and weak in 'Shepody'. The flower corolla of 'AR2009-10' has no or low proportion of blue in anthocyanin colouration on inner side while it is high in 'Congo'. The flower corolla of 'AR2009-10' has absent or very weak extent of anthocyanin colouration on inner side while it is high in 'Congo' and low in 'Shepody'. The time of maturity of 'AR2009-10' is late to very late while it is medium to late in 'Shepody'. The tuber shape of 'AR2009-10' is long while it is long oval in 'Congo'. The tuber skin of 'AR2009-10' is blue while it is light beige in 'Shepody'. 'AR2009-10' has a purple colour at the base of the eye of the tuber while it is blue in 'Congo' and white in 'Shepody'. The tuber flesh of 'AR2009-10' is blue while it is white in 'Shepody'.*

Description:

PLANT: leaf type foliage structure, semi-upright, late to very late time of maturity

STEM: high extent of anthocyanin colouration along the entire stem

LEAVES: medium to large outline size, intermediate openness, dark green colour, high intensity and extent of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: medium size, narrower than long in relation to length

LEAFLETS: medium presence of secondary leaflets, absent or very low frequency of coalescence, weak waviness of margin, shallow to medium depth of veins, medium to glossy glossiness of the upper side

INFLORESCENCE: low to medium frequency, small size

FLOWER BUD: low extent of anthocyanin colouration

COROLLA: small to medium size, absent or very weak extent and intensity of anthocyanin colouration on inner side, absent or low proportion of blue in anthocyanin colouration on inner side

PEDUNCLE: low to medium extent of anthocyanin colouration

TUBER: long shape, medium to deep depth of eyes, blue flesh

TUBER EYES: purple eye base

TUBER SKIN: blue

LIGHT SPROUT: medium to large size, broad cylindrical shape, medium number of root tips, medium length of lateral shoots

LIGHT SPROUT BASE: very strong intensity of anthocyanin colouration, high proportion of blue in anthocyanin colouration, sparse pubescence

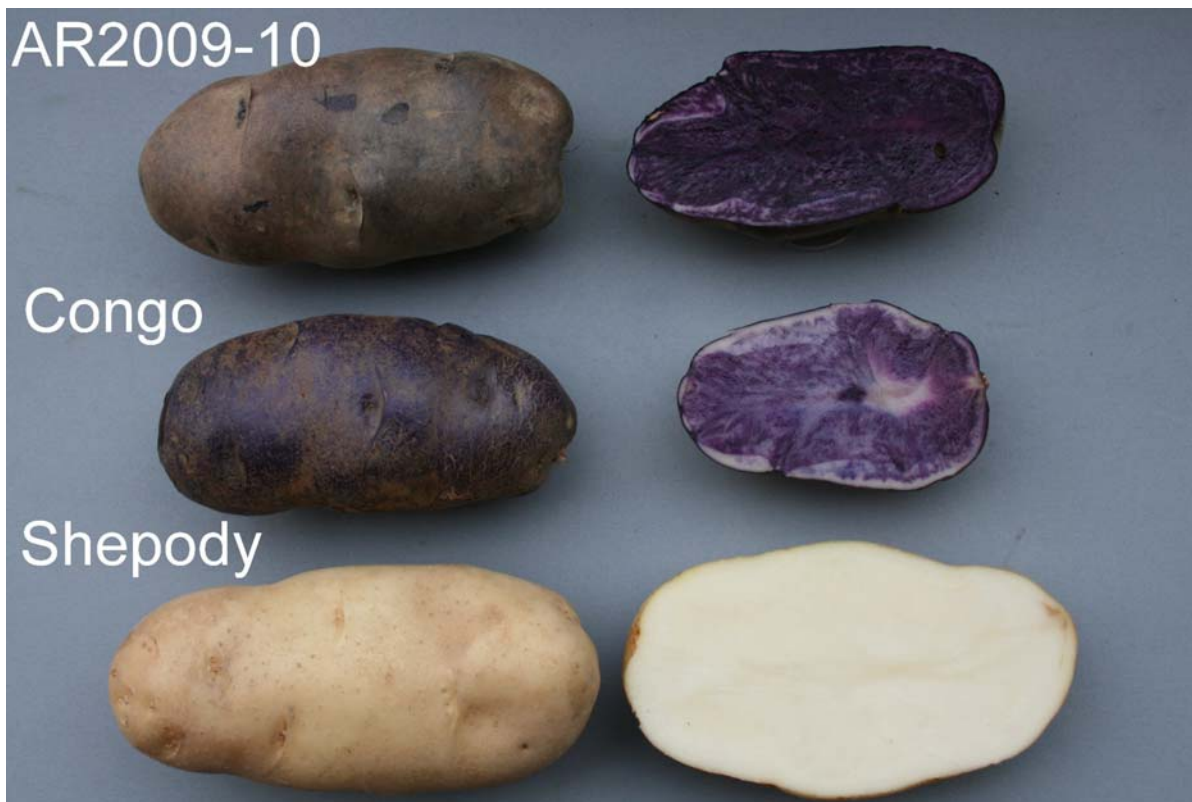
LIGHT SPROUT TIP: small size in relation to base, closed habit, very strong intensity of anthocyanin colouration, sparse pubescence

Origin and Breeding: 'AR2009-10' (experimental designations F05078 and 15068-20) originated from the cross of 'F91031' and 'Congo' made in 2003 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type, pigmented flesh and niche French fry potential.

Tests and Trials: Trials for 'AR2009-10' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'AR2009-10' (left) with the reference varieties 'Congo' (centre) and 'Shepody' (right)



Potato: 'AR2009-10' (left) with the reference varieties 'Congo' (centre) and 'Shepody' (right)



Potato: 'AR2009-10' (left) with the reference varieties 'Congo' (centre) and 'Shepody' (right)

Proposed denomination: 'Bayside Red'
Application number: 10-6972
Application date: 2010/05/03
Applicant: Agriculture & Agri-Food Canada, Fredericton, New Brunswick
Agent in Canada: Agriculture & Agri-Food Canada, Lacombe, Alberta
Breeder: T. Richard Tam, Agriculture & Agri-Food Canada, Fredericton, New Brunswick

Varieties used for comparison: 'Coastal Russet' and 'Russet Burbank'

Summary: 'Bayside Red' has an ovoid lightsprout shape while it is narrow cylindrical in 'Coastal Russet'. The intensity of anthocyanin at the base of the lightsprout of 'Bayside Red' is medium to strong while it is weak to medium in 'Coastal Russet'. 'Bayside Red' has medium proportion of blue in anthocyanin colouration at the base of the lightsprout while it is absent or low in the reference varieties. The pubescence at the base of the lightsprout of 'Bayside Red' is absent or very sparse while it is medium in 'Russet Burbank'. 'Bayside Red' has a medium to strong intensity and a high extent of the anthocyanin colouration of the inner surface of the corolla while the intensity and extent are absent to very weak in 'Russet Burbank'. 'Bayside Red' has high proportion of blue in anthocyanin colouration on inner side of the corolla while it is absent or low in 'Russet Burbank'. The tuber skin of 'Bayside Red' is red while it is tan in the reference varieties. 'Bayside Red' has a red colour at the base of the eye of the tuber while it is white in the reference varieties. The tuber flesh of 'Bayside Red' is cream while it is white in the reference varieties.

Description:

PLANT: intermediate type foliage structure, semi-upright, medium to late time of maturity

STEM: absent or very low extent of anthocyanin colouration

LEAVES: small outline size, intermediate openness, medium green colour, low extent of anthocyanin colouration on midrib of upper side, absent or very weak to weak intensity of anthocyanin colouration on midrib of upper side

SECOND PAIR OF LATERAL LEAFLETS: small to medium size, narrower than long in relation to length

LEAFLETS: weak presence of secondary leaflets, absent or very low frequency of coalescence, absent or very weak waviness of margin, shallow to medium depth of veins, dull glossiness of the upper side

INFLORESCENCE: low to medium frequency, medium to large size

FLOWER BUD: medium extent of anthocyanin colouration

COROLLA: medium size, medium to strong intensity of anthocyanin colouration on inner side, high proportion of blue in anthocyanin colouration on inner side, high extent of anthocyanin colouration on inner side

PEDUNCLE: absent or very low extent of anthocyanin colouration

TUBER: long oval shape, medium depth of eyes, cream flesh

TUBER EYES: red eye base

TUBER SKIN: red

LIGHT SPROUT: medium size, ovoid shape, medium number of root tips, short length of lateral shoots

LIGHT SPROUT BASE: medium to strong intensity of anthocyanin colouration, medium proportion of blue in anthocyanin colouration, absent or very sparse pubescence

LIGHT SPROUT TIP: large size in relation to base, closed to intermediate habit, medium intensity of anthocyanin colouration, medium pubescence

Origin and Breeding: 'Bayside Red' (experimental designations 'AR2008-01', F03004 and 13672-03) originated from the cross of 'Coastal Russet' and 'F92028' made in 2000 in Fredericton, New-Brunswick. Selection criteria were clonal selection for adaptation, tuber type and French fry potential.

Tests and Trials: Trials for 'Bayside Red' were conducted at the Potato Research Centre, Fredericton, New-Brunswick, in 2010. There were two replicates of 30 plants with a plant spacing of 25cm.



Potato: 'Bayside Red' (AR2008-01) (left) with reference varieties 'Coastal Russet' (centre) and 'Russet Burbank' (right)



Potato: 'Bayside Red' (AR2008-01) (left) with reference varieties 'Coastal Russet' (centre) and 'Russet Burbank' (right)
