DRY BEAN

VARIETY FACT SHEET

2010

NEW YORK STATE

D.E. Halseth, E.R. Sandsted, W.L. Hymes, R.L. MacLaury,
J.M. Kelly, B. Rich, D. Hoy

Department of Horticulture
N.Y. State College of Agriculture and Life Sciences
Cornell University
Ithaca, New York 14853-5908
This Fact Sheet provides general information on each of the varieties and lines grown in the 2010 New York dry bean variety trials. It also provides a summary of the yield, maturity, seed size, and canning data from all the trials in which we have tested those cultivars, covering the period 1987-2010. Typically, unless otherwise noted, descriptions concerning plant type, maturity, yield and canning potential, as well as seed size and appearance, are based on observations from our trials. However, the disease resistance characteristics listed are those provided by the breeders. In addition to this Fact Sheet, the Annual Variety Trial Report is published which summarizes the data just for the 2010 season.

Two replications of each entry from our small plot trials were canned at the Food Technology Facility at the Geneva Experiment Station in January and February. In the past, the canned samples were evaluated by an individual from the canning industry shortly after everything has been canned. That individual, Rich Boyer (formerly of Furman Foods) developed the canning procedure we use on all our canned samples. Due to severe budget constraints, we have been unable to schedule Rich’s evaluations for the past several years, so our project provides the canning data presented in this report.

Each can of beans is rated for uniformity of size, uniformity of color and general appearance (type and severity of splitting). The rating scale is: 2 = premium grade, 1 = acceptable, 0 = unacceptable. The canning procedure we use is fairly harsh, so there are few samples that are scored as premium grade. Instead, the best canners usually score in the low 1.0’s. Based on the experience of the industry with the varieties we have tested, if a variety achieves an appearance score of 0.7 or above, it usually can be processed satisfactorily by the canning industry. However, they would still much prefer that a variety attain a score of 1.0 or higher.

In 2010, replicated trials were conducted at the Freeville Vegetable Research Farm (Tompkins County) and on a farm operated by the Paul Stein family (Livingston County). A total of 46 varieties and breeding lines were tested in the 3 dry bean classes grown in New York. The total number of entries in each of these classes planted at all locations and covered in this report are:

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PLEASE NOTE: To make comparison between the cultivars easier, each cultivar’s yield is compared against that of a given standard variety and is shown as a percent of the standard’s yield. Both the yield and the percent of standard are derived only from common trials in which both the particular cultivar and the standard were tested together, i.e., a “head-to-head” comparison. Because the entries change from year to year, and not every entry is grown at every location in a given year, the trials used in making the “percent of standard” calculations will often differ from cultivar to cultivar. Comparisons for maturity (days to 90% dry pods), seed size (seeds per pound), and canning are made in the same “head-to-head” manner, i.e., only maturity, seed size, and canning data from trials common between the cultivars being compared are used.

PLEASE ALSO NOTE: Tables have been inserted at the back of the report that summarize the yield, maturity, uniformity of seed size and color and canning appearance comparisons for all the varieties described in the first part of this report.

LIGHT RED KIDNEY

CELRK – 1989 release from U. Calif. (Davis).
Industry canning standard for light red kidneys.
Upright bush plant. Early maturity.
BCMV-resistant replacement for Sacramento Red Kidney.
Large seed size. Stand establishment can be a problem, so careful attention to planter calibration and seeding rates are important.
I-gene resistance to BCMV and resistant to alpha race of anthracnose.
Yrs tested: 1990-2010
  Yield (120 trials): 2397 lb/A
  Maturity (114 trials): 88 days
  Seed Size (110 trials): 764 seeds/lb
  Canning (321 samples): 1.70-1.62-0.94

Selected for anthracnose resistance out of Chinook.
Resistant to all known N. American races of that disease.
Also, has I-gene resistance to BCMV and is tolerant to halo blight.
Upright bush plant. Medium-late maturity. Good yield potential.
  Yield (26 trials): 2404 lb/A (101% of CELRK)
  Maturity (25 trials): 98 days (CELRK = 86 days)
  Seed Size (26 trials): 863 seeds/lb (CELRK = 784)
  Canning (58 samples): 1.66-1.55-0.79 (CELRK: 1.73-1.66-1.00)
Pink Panther - Asgrow breeding line. Previously tested as 0859-0462.
Upright bush plant. Medium-early maturity. Large seed size.
Good yield potential and good canner.
Has I-gene resistance to BCMV.
Years tested: 1999-2010
  Yield (26 trials): 2494 lb/A (103% of CELRK)
  Maturity (25 trials): 90 days (CELRK = 87 days)
  Seed Size (26 trials): 781 seeds/lb (CELRK = 785)
  Canning (54 samples): 1.60-1.37-1.11 (CELRK: 1.62-1.53-0.91)

Upright bush plant. Late maturity but has good yield potential. Excellent canner.
Small seed size based on seeds/pound, due to slenderness of seed.
Resistant to BCMV.
Years tested: 1990-2010
  Yield (77 trials): 2633 lb/A (109% of CELRK)
  Maturity (76 trials): 105 days (CELRK = 87 days)
  Seed Size (77 trials): 872 seeds/lb (CELRK = 753)
  Canning: (213 samples): 1.75-1.62-1.31 (CELRK: 1.79-1.73-0.96)

Wallace - Breeding line from Cornell U. (Wallace). Previously tested as 773-V98.
Upright bush plant. Medium-early maturity.
Small seed size based on seeds/pound, mostly due to slenderness of seed.
Good yield potential and very good canner.
Resistant to BCMV.
Years tested: 1999-2010
  Yield (50 trials): 2516 lb/A (103% of CELRK)
  Maturity (48 trials): 89 days (CELRK = 85 days)
  Seed Size (50 trials): 1048 seeds/lb (CELRK = 798)
  Canning (117 samples): 1.45-1.42-1.17 (CELRK: 1.55-1.43-0.93)

A-36 - Breeding line from Cornell U. (Halseth).
Upright bush plant, but tends to lodge. Medium-early maturity.
Excellent yield potential but poor canner.
Years tested: 2008-2010
  Yield (8 trials): 2701 lb/A (113% of CELRK)
  Maturity (8 trials): 92 days (CELRK = 89 days)
  Seed Size (8 trials): 814 seeds/lb (CELRK = 763)
  Canning (11 samples): 1.57-1.27-0.68 (CELRK: 1.54-1.31-0.75)
A-38 - Breeding line from Cornell U. (Halseth).
Upright bush plant. Mid-season maturity.
Yield potential and canning comparable to CELRK.
Years tested: 2008-2010
  Yield (8 trials): 2375 lb/A (100% of CELRK)
  Maturity (8 trials): 95 days (CELRK = 89 days)
  Seed Size (8 trials): 850 seeds/lb (CELRK = 763)
  Canning (11 samples): 1.39-1.41-0.86 (CELRK: 1.54-1.31-0.75)

A-41 - Breeding line from Cornell U. (Halseth).
Upright bush plant. Medium early maturity.
Good yield potential. Cans as well as CELRK.
Years tested: 2008-2010
  Yield (8 trials): 2569 lb/A (108% of CELRK)
  Maturity (8 trials): 93 days (CELRK = 89 days)
  Seed Size (8 trials): 957 seeds/lb (CELRK = 763)
  Canning (11 samples): 1.36-1.09-0.77 (CELRK: 1.54-1.31-0.75)

A-45 - Breeding line from Cornell U. (Halseth).
Upright bush plant. Medium early maturity.
Yield potential comparable to CELRK and good canner.
Years tested: 2008-2010
  Yield (8 trials): 2412 lb/A (101% of CELRK)
  Maturity (8 trials): 93 days (CELRK = 89 days)
  Seed Size (8 trials): 788 seeds/lb (CELRK = 763)
  Canning (11 samples): 1.66-1.11-1.16 (CELRK: 1.54-1.31-0.75)

A-47 - Breeding line from Cornell U. (Halseth).
Upright bush plant. Medium early maturity.
Excellent yield potential and good canner. Sometimes has very large seed.
Years tested: 2008-2010
  Yield (8 trials): 2841 lb/A (119% of CELRK)
  Maturity (8 trials): 95 days (CELRK = 89 days)
  Seed Size (8 trials): 713 seeds/lb (CELRK = 763)
  Canning (11 samples): 1.45-1.25-0.91 (CELRK: 1.54-1.31-0.75)

COB 1966-99 - Breeding line from Gen-Tec. First year in trial.
Very tall, large, upright bush plant. Medium-late season maturity.
Good yield potential, very large seed size. Good canner in first year of testing.
Years tested: 2010
  Yield (1 trial): 3884 lb/A (110% of CELRK)
  Maturity (1 trial): 104 days (CELRK = 93 days)
  Seed Size (1 trial): 643 seeds/lb (CELRK = 695)
  Canning (2 samples): 1.38-1.00-0.88 (CELRK: 1.50-1.00-0.00)
COB 2092-99 – Breeding line from Gen-Tec.  First year in trial.  
Very tall, large, upright bush plant.  Medium-late season maturity.  
Good yield potential, very large seed size.  Good canner in first year of testing.  
Years tested: 2010  
  Yield (1 trial): 3859 lb/A (110% of CELRK)  
  Maturity (1 trial): 103 days (CELRK = 93 days)  
  Seed Size (1 trial): 642 seeds/lb (CELRK = 695)  
  Canning (2 samples): 1.50-1.13-0.88 (CELRK: 1.50-1.00-0.00) 

CU605 – White mold tolerant breeding line from NYSAES-Geneva (Griffiths).  
  Upright bush growth habit.  Medium late maturity.  
  Has good yield potential when white mold is prevalent.  
  Good canner in our tests.  Slightly smaller seed than CELRK.  
Years tested: 2006-2010  
  Yield (11 trials): 2183 lb/A (89% of CELRK)  
  Maturity (10 trials): 101 days (CELRK = 88 days)  
  Seed Size (11 trials): 853 seeds/lb (CELRK = 786)  
  Canning (22 samples): 1.50-1.42-0.81 (CELRK: 1.50-1.42-0.82) 

CU611 – White mold tolerant breeding line from NYSAES-Geneva (Griffiths).  Second year in trial.  
  Upright bush growth habit.  Slightly later in maturity than CELRK.  
  Good canner in our tests.  Seed size comparable to CELRK.  
Years tested: 2009-2010  
  Yield (4 trials): 1818 lb/A (77% of CELRK)  
  Maturity (3 trials): 96 days (CELRK = 91 days)  
  Seed Size (4 trials): 767 seeds/lb (CELRK = 762)  
  Canning (8 samples): 1.31-0.72-1.38 (CELRK: -1.31-0.72-0.66) 

CU612 – White mold tolerant breeding line from NYSAES-Geneva (Griffiths).  Third year in trial.  
  Upright bush growth habit.  Medium-early maturity.  
  Appears to have good yield potential when white mold is prevalent.  
  Good canner in our tests.  Smaller seed than CELRK.  
Years tested: 2008-2010  
  Yield (6 trials): 2309 lb/A (95% of CELRK)  
  Maturity (5 trials): 93 days (CELRK = 88 days)  
  Seed Size (6 trials): 860 seeds/lb (CELRK = 758)  
  Canning (10 samples): 1.30-1.03-1.05 (CELRK: 1.53-1.33-0.65) 

K06619 – Breeding line from Michigan St.  Second year in trial.  
  Upright bush plant.  Mid-season maturity.  Medium seed size.  
  Somewhat higher yield but about 7 days later than CELRK.  
Years tested: 2009-2010  
  Yield (2 trials): 2418 lb/A (106% of CELRK)  
  Maturity (2 trials): 100 days (CELRK = 93 days)  
  Seed Size (2 trials): 892 seeds/lb (CELRK = 768)  
  Canning (4 samples): 1.19-1.13-0.56 (CELRK: 1.44-1.13-0.44)
1062-V98 - Breeding line from Cornell U. (Wallace).
Upright bush plant. Midseason maturity. Large, attractive seed.
Fair yield potential and excellent canner.
Resistant to BCMV.

Yield (47 trials): 2287 lb/A (96% of CELRK)
Maturity (44 trials): 94 days (CELRK = 86 days)
Seed Size (47 trials): 835 seeds/lb (CELRK = 802)
Canning (121 samples): 1.53-1.41-1.40 (CELRK: 1.54-1.42-0.94)

NY104 - Breeding line from Cornell U. (Wallace).
Upright bush plant. Medium-early maturity.
Excellent yield potential and good canner.
Has I-gene resistance to BCMV.

Years tested: 2005-2010
Yield (13 trials): 2471 lb/A (106% of CELRK)
Maturity (12 trials): 89 days (CELRK = 87 days)
Seed Size (13 trials): 857 seeds/lb (CELRK = 803)
Canning (24 samples): 1.39-1.32-0.95 (CELRK: 1.48-1.41-0.82)

NY105 - Breeding line from Cornell U. (Wallace).
Upright bush plant. Early maturity.
Excellent yield potential and good canner.
Has I-gene resistance to BCMV.

Years tested: 2005-2010
Yield (13 trials): 2685 lb/A (115% of CELRK)
Maturity (12 trials): 87 days (CELRK = 87 days)
Seed Size (13 trials): 833 seeds/lb (CELRK = 804)
Canning (24 samples): 1.36-1.25-0.88 (CELRK: 1.48-1.41-0.82)

NY118 - Breeding line from Cornell U. (Halseth)
Upright bush plant. Mid-season maturity.
Good yield potential, with somewhat small seed size. Good canner.
Has I-gene resistance to BCMV.

Years tested: 2005-2010
Yield (11 trials): 2550 lb/A (110% of CELRK)
Maturity (10 trials): 96 days (CELRK = 88 days)
Seed Size (11 trials): 892 seeds/lb (CELRK = 785)
Canning (19 samples): 1.24-1.26-1.16 (CELRK: 1.43-1.37-0.80)
Black Velvet— Variety release from Seminis. Previously tested as 0852-0463.
Erect indeterminate plant, tall with medium length runners.
Midseason maturity.
Good yield potential. Acceptable canning quality.
Fairly plump, attractive seed; larger than Midnight.
Years in trial: 1999-2010
  Yield (22 trials): 2608 lb/A (105% of Midnight)
  Maturity (21 trials): 98 days (Midnight = 99 days)
  Seed Size (22 trials): 1993 seeds/lb (Midnight = 2312)
  Canning (43 samples): 1.55-1.32-0.85 (Midnight: 1.55-1.31-0.88)

Condor— Variety release from Michigan St. Previously tested as B001001.
Indeterminate plant with short to medium runners.
Medium maturity. Anthracnose resistant.
Yield potential similar to Midnight and very good canner.
Years in trial: 2001-2010
  Yield (19 trials): 2489 lb/A (98% of Midnight)
  Maturity (19 trials): 94 days (Midnight = 96 days)
  Seed Size (19 trials): 2257 seeds/lb (Midnight = 2310)
  Canning (38 samples): 1.50-1.47-1.30 (Midnight: 1.43-1.27-0.83)

Eclipse— Variety release from North Dakota St.
Indeterminate plant with short runners. Somewhat earlier than Midnight.
Yield comparable to Midnight and good canner.
I-gene resistance to BCMV.
Resistant to anthracnose race 7 and halo blight. Tolerant to rust and white mold.
Years in trial: 2004, 2007-2010
  Yield (9 trials): 2805 lb/A (100% of Midnight)
  Maturity (9 trials): 93 days (Midnight = 97 days)
  Seed Size (9 trials): 2422 seeds/lb (Midnight = 2326)
  Canning (18 samples): 1.29-1.24-1.04 (Midnight: 1.24-1.10-0.78)

Jaguar— Variety release by Michigan St. Previously tested as B95556.
Tall, very erect plant with very short to short runners.
Good yield potential for this maturity.
Smaller seed size, but plump. Good canner based upon freedom from splits.
Has dominant I-gene resistance to BCMV and also has the A-gene and ARE-gene for anthracnose resistance. Has some tolerance to root rot and white mold.
Years in trials: 1998, 2000-2010
  Yield (23 trials): 2419 lb/A (98% of Midnight)
  Maturity (22 trials): 92 days (Midnight = 97 days)
  Seed Size (23 trials): 2430 seeds/lb (Midnight = 2312)
  Canning (41 samples): 1.54-1.39-1.18 (Midnight: 1.52-1.30-0.83)
**Jet Black** – New variety from Idaho Bean Seed Co. Previously tested as ISBTR-9.

Upright, indeterminate plant, tall with medium runners.
Maturity similar to Midnight.
Good yield potential and good canner.
May have dominant I-gene resistance to BCMV.

Years in trials: 2004-2010
- Yield (14 trials): 2529 lb/A (102% of Midnight)
- Maturity (14 trials): 97 days (Midnight = 96 days)
- Seed Size (14 trials): 2133 seeds/lb (Midnight = 2330)
- Canning (14 samples): 1.35-1.21-1.07 (Midnight: 1.35-1.22-0.86)

**Jolly Roger** – Breeding line from Idaho Bean Seed Co. Previously tested as ISBTR-13.

Upright, indeterminate plant, tall with long runners.
Midseason maturity. Somewhat larger seed than Midnight.
Good yield potential and good canner.
May have dominant I-gene resistance to BCMV.

Years in trials: 2003-2010
- Yield (13 trials): 2584 lb/A (99% of Midnight)
- Maturity (13 trials): 95 days (Midnight = 97 days)
- Seed Size (13 trials): 2195 seeds/lb (Midnight = 2308)
- Canning (26 samples): 1.40-0.94-1.06 (Midnight: 1.39-1.27-0.86)

**Midnight** – Industry standard developed at Cornell U. (R. Sandsted).

Erect, indeterminate plant with very short runners. Strong tap-root.
Resistant to beta, gamma, and delta races of anthracnose. Has I-gene resistance to BCMV. Also has some tolerance to halo blight, root rot, and white mold.

Years in trials: 1983-1990, 1992-2010
- Yield (71 trials): 2793 lb/A
- Maturity (58 trials): 101 days
- Seed Size (71 trials): 2262 seeds/lb
- Canning (108 samples): 1.67-1.47-0.98

**Shania** – Breeding line from ADM. Previously tested as B201240.

Upright, indeterminate plant, medium height with short runners.
Maturity similar to Midnight. Good yield potential.

Years in trials: 2005-2010
- Yield (12 trials): 2656 lb/A (108% of Midnight)
- Maturity (12 trials): 95 days (Midnight = 96 days)
- Seed Size (12 trials): 2406 seeds/lb (Midnight = 2404)
- Canning (24 samples): 1.25-1.19-0.68 (Midnight:1.28-1.19-0.80)
T39 – Industry standard; selection out of old Black Turtle Soup variety made at U. Calif. at Davis. Fairly upright, indeterminate plant with medium to long runners. Good yield potential and good canner. Seed size same as Midnight, but more plump. Attractive, uniform seed. Disease resistance similar to Midnight, except susceptible to beta and delta races of anthracnose, in addition to resistance to the alpha race.

Years in trial: 1983-2010
- Yield (60 trials): 2652 lb/A (97% of Midnight)
- Maturity (48 trials): 98 days (Midnight = 101 days)
- Seed size (60 trials): 2238 seeds/lb (Midnight = 2262)
- Canning (90 samples): 1.69-1.40-1.21 (Midnight: 1.65-1.41-0.97)


Years in trials: 2006-2010
- Yield (10 trials): 2813 lb/A (110% of Midnight)
- Maturity (10 trials): 96 days (Midnight = 98 days)
- Seed Size (10 trials): 2326 seeds/lb (Midnight = 2408)
- Canning (22 samples): 1.28-1.27-1.18 (Midnight: 1.25-1.14-0.81)


Years in trials: 2008-2010
- Yield (4 trials): 3158 lb/A (119% of Midnight)
- Maturity (4 trials): 94 days (Midnight = 99 days)
- Seed Size (4 trials): 2238 seeds/lb (Midnight = 2321)
- Canning (8 samples): 1.22-1.28-1.06 (Midnight: 1.19-1.13-0.72)


Years in trials: 2009-2010
- Yield (2 trials): 3488 lb/A (111% of Midnight)
- Maturity (2 trials): 95 days (Midnight = 100 days)
- Seed Size (2 trials): 2344 seeds/lb (Midnight = 2363)
- Canning (4 samples): 1.25-1.25-1.06 (Midnight: 1.19-1.25-0.69)
COB 2159-00 – Breeding line from Gen-Tec Seeds, Ltd. Second year in trial.
Upright, indeterminate plant.
Earlier than Midnight. Yield potential similar to Midnight.
Somewhat larger seed and better canner than Midnight.
Years in trials: 2008, 2010
   Yield (2 trials): 3171 lb/A (99% of Midnight)
   Maturity (2 trials): 96 days (Midnight = 102 days)
   Seed Size (2 trials): 1909 seeds/lb (Midnight = 2175)
   Canning (4 samples): 1.38-1.31-1.25 (Midnight: 1.31-1.25-0.75)

CU609 – White mold tolerant breeding line from NYSAES-Geneva (Griffiths).
Larger than typical black turtle soup seed.
Long, sprawling vines. Type 3 plant habit. Late maturity.
Low yield potential and poor canner in our tests.
Years tested: 2008-2010
   Yield (5 trials): 2246 lb/A (83% of Midnight)
   Maturity (5 trials): 109 days (Midnight = 99 days)
   Seed Size (5 trials): 1812 seeds/lb (Midnight = 2344)
   Canning (10 samples): 1.33-0.88-0.43 (Midnight: 1.25-1.18-0.75)

CU610 – White mold tolerant breeding line from NYSAES-Geneva (Griffiths).
Larger than typical black turtle soup seed.
Long, sprawling vines. Type 3 plant habit. Late maturity.
Low yield potential and poor canner in our tests.
Years tested: 2008-2010
   Yield (5 trials): 2320 lb/A (86% of Midnight)
   Maturity (5 trials): 109 days (Midnight = 99 days)
   Seed Size (5 trials): 1614 seeds/lb (Midnight = 2344)
   Canning (10 samples): 1.30-1.10-0.13 (Midnight: 1.25-1.18-0.75)

96-148 - Single plant selection out of line 88786, which was developed at Cornell U. (R. Sandsted)
Selected for larger, more plump seed type. Excellent canner.
Has had a little more erect plant than Midnight.
Excellent yield potential. Maturity similar to Midnight.
Years in trials: 1998-2010
   Yield (18 trials): 2704 lb/A (104% of Midnight)
   Maturity (18 trials): 100 days (Midnight = 101 days)
   Seed Size (18 trials): 1958 seeds/lb (Midnight = 2307)
   Canning (37 samples): 1.61-1.30-1.33 (Midnight: 1.57-1.35-0.95)
DARK RED KIDNEY  ***************************************************

Cabernet  – 1999 variety release from Seminis. Previously tested as B341.  
Upright bush plant. Has averaged 6 days earlier than Montcalm.  
Very good yield potential relative to Montcalm and similar seed size.  
Canning is comparable to Montcalm.  I-gene resistance to BCMV.  
Years in trials: 1994-2010  
Yield (33 trials): 2279 lb/A (108% of Montcalm)  
Maturity (32 trials): 92 days (Montcalm = 98 days)  
Seed Size (33 trials): 873 seeds/lb (Montcalm = 859)  
Canning (65 samples): 1.69-1.69-1.33 (Montcalm: 1.72-1.67-1.32)

Industry standard for canning.  
Upright bush plant.  Medium to medium-late maturity.  
Stems have a tendency to stay green after dry-down of pods.  
Resistant to halo blight, BCMV (I-gene), and the Alpha race and  
race 73 of anthracnose.  
Years in trials: 1987-2010  
Yield (61 trials): 2184 lb/A  
Maturity (53 trials): 98 days  
Seed Size (61 trials): 862 seeds/lb  
Canning (112 samples): 1.80-1.77-1.29

CU603  – White mold tolerant breeding line from Cornell U (Griffiths).  
Upright bush plant.  Lower yield potential but earlier than Montcalm.  
Smaller seed size than Montcalm.  
Seed coat color is not as dark as the typical dark red kidney.  
Excellent canner although the color turns brown or orange after canning.  
Years in trials: 2006-2010  
Yield (9 trials): 2095 lb/A (94% of Montcalm)  
Maturity (9 trials): 96 days (Montcalm = 100 days)  
Seed size (9 trials): 923 seeds/lb (Montcalm = 846)  
Canning (18 samples): 1.40-1.13-1.21 (Montcalm: 1.44-1.43-1.22)

CU607  – White mold tolerant breeding line from Cornell U (Griffiths).  Second year in trial.  
Upright bush plant.  Yield potential and maturity similar to Montcalm.  
Somewhat smaller seed size than Montcalm.  
Years in trials: 2009-2010  
Yield (3 trials): 2342 lb/A (105% of Montcalm)  
Maturity (3 trials): 98 days (Montcalm = 100 days)  
Seed size (3 trials): 874 seeds/lb (Montcalm = 842)  
Canning (6 samples): 1.29-1.25-0.88 (Montcalm: 1.25-1.33-1.00)
CU608 – White mold tolerant breeding line from Cornell U (Griffiths). Second year in trial.  
Upright bush plant. Good yield potential. Maturity similar to Montcalm.  
Seed size somewhat larger than Montcalm. Poor canner in first year. 
Years in trials: 2009-2010
Yield (3 trials): 2200 lb/A (99% of Montcalm)
Maturity (3 trials): 99 days (Montcalm = 100 days)
Seed size (3 trials): 869 seeds/lb (Montcalm = 842)
Canning (6 samples): 1.25-1.21-0.67 (Montcalm: 1.25-1.33-1.00)

GTS104 – Breeding line from Gen-Tec Seeds, Ltd. Previously tested as COB 2179-99. 
Upright bush plant. Excellent yield potential.  
Seed size and maturity is similar to Montcalm. 
Canning quality not as good as Montcalm. 
Years in trials: 2005-2010
Yield (11 trials): 2359 lb/A (110% of Montcalm)
Maturity (11 trials): 98 days (Montcalm = 100 days)
Seed Size (11 trials): 852 seeds/lb (Montcalm = 856)
Canning (22 samples): 1.36-1.33-0.69 (Montcalm: 1.44-1.44-1.28)

GTS106 – Breeding line from Gen-Tec Seeds, Ltd. Previously tested as COB 472-03.  
Upright bush plant. Excellent yield potential.  
Somewhat earlier than Montcalm. Seed size is similar to Montcalm.  
Canning quality not quite as good as Montcalm.  
Years in trials: 2007-2010
Yield (4 trials): 2568 lb/A (115% of Montcalm)
Maturity (4 trials): 97 days (Montcalm = 101 days)
Seed Size (4 trials): 858 seeds/lb (Montcalm = 841)
Canning (8 samples): 1.34-1.44-0.72 (Montcalm: 1.44-1.47-1.25)

K06012 - Breeding line from Michigan St. Second year in trial.  
Upright bush plant. Excellent yield potential for this maturity.  
Slightly smaller seed size and poor canner compared to Montcalm.  
Years in trials: 2009-2010
Yield (3 trials): 2449 lb/A (110% of Montcalm)
Maturity (3 trials): 91 days (Montcalm = 99 days)
Seed size (3 trials): 944 seeds/lb (Montcalm = 842)
Canning (6 samples): 1.21-1.38-0.58 (Montcalm: 1.25-1.33-1.00)

K08228 - Breeding line from Michigan St. First year in trial.  
Upright bush plant. Good yield potential for this maturity.  
Smaller seed size than Montcalm. Cans as good as Montcalm.  
Years in trials: 2010
Yield (1 trial): 3480 lb/A (107% of Montcalm)
Maturity (1 trial): 94 days (Montcalm = 98 days)
Seed size (1 trial): 826 seeds/lb (Montcalm = 728)
Canning (2 samples): 1.38-1.50-1.00 (Montcalm: 1.25-1.38-1.00)
Table 1. Light red kidney comparisons over years with CELRK (for entries in 2010 trials)

Seed yield, maturity, and seed size - 1990-2010

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Years in Trial</th>
<th>Number of Trials</th>
<th>Seed Yield (lb/A at 18% moist.)</th>
<th>Seed Size (seeds/lb at 12% moist.)</th>
<th>Maturity (days to 90% dry pods)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>Cultivar Average</td>
<td>Pct. of CELRK</td>
<td>Cultivar Average</td>
</tr>
<tr>
<td>CELRK</td>
<td>1990-2010</td>
<td>120/114</td>
<td>2397</td>
<td>-</td>
<td>764</td>
</tr>
<tr>
<td>Chinook 2000</td>
<td>96-01, 03-10</td>
<td>26/25</td>
<td>2404</td>
<td>101</td>
<td>863</td>
</tr>
<tr>
<td>Pink Panther</td>
<td>1999-2010</td>
<td>26/25</td>
<td>2494</td>
<td>103</td>
<td>781</td>
</tr>
<tr>
<td>RedKanner</td>
<td>1990-2010</td>
<td>77/76</td>
<td>2633</td>
<td>109</td>
<td>872</td>
</tr>
<tr>
<td>Wallace (773-V98)</td>
<td>1999-2010</td>
<td>50/48</td>
<td>2516</td>
<td>103</td>
<td>1048</td>
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<tr>
<td>A-36</td>
<td>2008-2010</td>
<td>8</td>
<td>2701</td>
<td>113</td>
<td>814</td>
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<tr>
<td>A-38</td>
<td>2008-2010</td>
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<td>2375</td>
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<tr>
<td>A-41</td>
<td>2008-2010</td>
<td>8</td>
<td>2569</td>
<td>108</td>
<td>957</td>
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<td>A-45</td>
<td>2008-2010</td>
<td>8</td>
<td>2412</td>
<td>101</td>
<td>788</td>
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<td>A-47</td>
<td>2008-2010</td>
<td>8</td>
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<td>119</td>
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<td>COB 1966-99</td>
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<td>COB 2092-99</td>
<td>2010</td>
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<td>3859</td>
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<td>642</td>
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<td>CU605</td>
<td>2006-2010</td>
<td>11/10</td>
<td>2183</td>
<td>89</td>
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<td>CU611</td>
<td>2009-2010</td>
<td>4/3</td>
<td>1818</td>
<td>77</td>
<td>767</td>
</tr>
<tr>
<td>CU612</td>
<td>2008-2010</td>
<td>6/5</td>
<td>2309</td>
<td>95</td>
<td>860</td>
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<td>K06619</td>
<td>2009-2010</td>
<td>2</td>
<td>2418</td>
<td>106</td>
<td>892</td>
</tr>
<tr>
<td>1062-V98</td>
<td>99-00, 02-10</td>
<td>47/44</td>
<td>2287</td>
<td>96</td>
<td>835</td>
</tr>
<tr>
<td>NY104</td>
<td>2005-2010</td>
<td>13/12</td>
<td>2471</td>
<td>106</td>
<td>857</td>
</tr>
<tr>
<td>NY105</td>
<td>2005-2010</td>
<td>13/12</td>
<td>2685</td>
<td>115</td>
<td>833</td>
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<tr>
<td>NY118</td>
<td>2005-2010</td>
<td>11/10</td>
<td>2550</td>
<td>110</td>
<td>892</td>
</tr>
</tbody>
</table>

1 Second number, if present, indicates the number of trials in which maturity data was taken.

2 Includes data only from trials in which both CELRK and the particular cultivar to which it is being compared were tested together.
<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Years in Trial</th>
<th>Number of Trials</th>
<th>Cultivar Average</th>
<th>Pct. of Midnight</th>
<th>Cultivar Average</th>
<th>Difference from Mid.</th>
<th>Cultivar Average</th>
<th>Difference from Mid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Condor (B00101)</td>
<td>2001-2010</td>
<td>19</td>
<td>2489</td>
<td>98</td>
<td>2257</td>
<td>-53</td>
<td>94</td>
<td>-2</td>
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<tr>
<td>Eclipse</td>
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<td>2805</td>
<td>100</td>
<td>2422</td>
<td>96</td>
<td>93</td>
<td>-4</td>
</tr>
<tr>
<td>Jaguar</td>
<td>1983-2010</td>
<td>23/22</td>
<td>2419</td>
<td>98</td>
<td>2430</td>
<td>118</td>
<td>92</td>
<td>-5</td>
</tr>
<tr>
<td>Jet Black (ISBTR-9)</td>
<td>2004-2010</td>
<td>14</td>
<td>2529</td>
<td>102</td>
<td>2133</td>
<td>-197</td>
<td>97</td>
<td>1</td>
</tr>
<tr>
<td>Midnight</td>
<td>1983-2010</td>
<td>71/58</td>
<td>2793</td>
<td>-</td>
<td>2262</td>
<td>-</td>
<td>101</td>
<td>-</td>
</tr>
<tr>
<td>Shania (B201240)</td>
<td>2005-2010</td>
<td>12</td>
<td>2656</td>
<td>108</td>
<td>2406</td>
<td>2</td>
<td>95</td>
<td>-1</td>
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<tr>
<td>T39</td>
<td>1983-2010</td>
<td>60/48</td>
<td>2652</td>
<td>97</td>
<td>2238</td>
<td>-24</td>
<td>98</td>
<td>-3</td>
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<tr>
<td>Zorro (B04554)</td>
<td>2006-2010</td>
<td>10</td>
<td>2813</td>
<td>110</td>
<td>2326</td>
<td>-82</td>
<td>96</td>
<td>-2</td>
</tr>
<tr>
<td>GTS1103 (COB 214-99)</td>
<td>2008-2010</td>
<td>4</td>
<td>3158</td>
<td>119</td>
<td>2238</td>
<td>-83</td>
<td>94</td>
<td>-5</td>
</tr>
<tr>
<td>COB 223-99</td>
<td>2009-2010</td>
<td>2</td>
<td>3488</td>
<td>111</td>
<td>2344</td>
<td>-19</td>
<td>95</td>
<td>-5</td>
</tr>
<tr>
<td>COB 2159-00</td>
<td>2008, 2010</td>
<td>2</td>
<td>3171</td>
<td>99</td>
<td>1909</td>
<td>-266</td>
<td>96</td>
<td>-6</td>
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<tr>
<td>CU609</td>
<td>2008-2010</td>
<td>5</td>
<td>2246</td>
<td>83</td>
<td>1812</td>
<td>-532</td>
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<td>11</td>
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<td>86</td>
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<td>-729</td>
<td>109</td>
<td>11</td>
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<td>96-148</td>
<td>1998-2010</td>
<td>18</td>
<td>2704</td>
<td>104</td>
<td>1958</td>
<td>-349</td>
<td>100</td>
<td>-1</td>
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</tbody>
</table>

1Second number, if present, indicates the number of trials in which maturity data was taken.

2Includes data only from trials in which both Midnight and the particular cultivar to which it is being compared were tested together.
Table 3. Dark red kidney comparisons over years with Montcalm (for entries in 2010 trials)

Seed yield, maturity, and seed size - 1987-2010

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Years in Trial</th>
<th>Number(^1) of Trials</th>
<th>Cultivar Average</th>
<th>Pct. of(^2) Montcalm</th>
<th>Seed Yield (lb/A at 18% moist.)</th>
<th>Seed Size (seeds/lb at 12% moist.)</th>
<th>Maturity (days to 90% dry pods)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cabernet</td>
<td>1993-2010</td>
<td>33/32</td>
<td>2279</td>
<td>108</td>
<td>873</td>
<td>14</td>
<td>92</td>
</tr>
<tr>
<td>Montcalm</td>
<td>1987-2010</td>
<td>61/53</td>
<td>2184</td>
<td>-</td>
<td>862</td>
<td>-</td>
<td>98</td>
</tr>
<tr>
<td>CU603</td>
<td>2006-2010</td>
<td>9</td>
<td>2095</td>
<td>94</td>
<td>923</td>
<td>77</td>
<td>96</td>
</tr>
<tr>
<td>CU607</td>
<td>2009-2010</td>
<td>3</td>
<td>2342</td>
<td>105</td>
<td>874</td>
<td>32</td>
<td>98</td>
</tr>
<tr>
<td>CU608</td>
<td>2009-2010</td>
<td>3</td>
<td>2200</td>
<td>99</td>
<td>869</td>
<td>27</td>
<td>99</td>
</tr>
<tr>
<td>GTS104 (COB 2179-99)</td>
<td>2005-2010</td>
<td>11</td>
<td>2359</td>
<td>110</td>
<td>852</td>
<td>-4</td>
<td>98</td>
</tr>
<tr>
<td>GTS106 (COB 472-03)</td>
<td>2007-2010</td>
<td>4</td>
<td>2568</td>
<td>115</td>
<td>858</td>
<td>16</td>
<td>97</td>
</tr>
<tr>
<td>K06012</td>
<td>2009-2010</td>
<td>3</td>
<td>2249</td>
<td>110</td>
<td>944</td>
<td>102</td>
<td>91</td>
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<tr>
<td>K08228</td>
<td>2010</td>
<td>1</td>
<td>3480</td>
<td>107</td>
<td>826</td>
<td>98</td>
<td>94</td>
</tr>
</tbody>
</table>

\(^1\)Second number, if present, indicates the number of trials in which maturity data was taken.

\(^2\)Includes data only from trials in which both Montcalm and the particular cultivar to which it is being compared were tested together.
Table 4. Light red kidney canning evaluations (for entries in 2010 trials)
Uniformity of size and color and general appearance - 1990-2010

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Years in Trial</th>
<th>Number of Samples</th>
<th>Uniformity of Size</th>
<th>Uniformity of Color</th>
<th>General Appearance(^2)</th>
<th>CELRK Appearance(^2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CELRK</td>
<td>1990-2010</td>
<td>321</td>
<td>1.70</td>
<td>1.62</td>
<td>0.94</td>
<td>--</td>
</tr>
<tr>
<td>Chinook 2000</td>
<td>96-01, 03-10</td>
<td>58</td>
<td>1.66</td>
<td>1.55</td>
<td>0.79</td>
<td>1.00</td>
</tr>
<tr>
<td>Pink Panther</td>
<td>1999-2010</td>
<td>54</td>
<td>1.60</td>
<td>1.37</td>
<td>1.11</td>
<td>0.91</td>
</tr>
<tr>
<td>RedKanner</td>
<td>1990-2010</td>
<td>213</td>
<td>1.75</td>
<td>1.62</td>
<td>1.31</td>
<td>0.96</td>
</tr>
<tr>
<td>Wallace</td>
<td>1999-2010</td>
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<td>1.42</td>
<td>1.17</td>
<td>0.93</td>
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<tr>
<td>A-36</td>
<td>2008-2010</td>
<td>11</td>
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<td>1.27</td>
<td>0.68</td>
<td>0.75</td>
</tr>
<tr>
<td>A-38</td>
<td>2008-2010</td>
<td>11</td>
<td>1.39</td>
<td>1.41</td>
<td>0.86</td>
<td>0.75</td>
</tr>
<tr>
<td>A-41</td>
<td>2008-2010</td>
<td>11</td>
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<td>1.09</td>
<td>0.77</td>
<td>0.75</td>
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<tr>
<td>A-45</td>
<td>2008-2010</td>
<td>11</td>
<td>1.66</td>
<td>1.11</td>
<td>1.16</td>
<td>0.75</td>
</tr>
<tr>
<td>A-47</td>
<td>2008-2010</td>
<td>11</td>
<td>1.45</td>
<td>1.25</td>
<td>0.91</td>
<td>0.75</td>
</tr>
<tr>
<td>COB 1966-99</td>
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<td>1.00</td>
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<td>0.00</td>
</tr>
<tr>
<td>COB 2092-99</td>
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<td>1.13</td>
<td>0.88</td>
<td>0.00</td>
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<tr>
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<td>2006-2010</td>
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<td>1.42</td>
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<td>0.83</td>
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<tr>
<td>CU611</td>
<td>2009-2010</td>
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<td>1.31</td>
<td>0.72</td>
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<td>0.66</td>
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<tr>
<td>CU612</td>
<td>2008-2010</td>
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<td>1.30</td>
<td>1.03</td>
<td>1.05</td>
<td>0.65</td>
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<td>0.44</td>
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<tr>
<td>1062-V98</td>
<td>99-00, 02-10</td>
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<td>1.53</td>
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<td>NY104</td>
<td>2005-2010</td>
<td>24</td>
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<td>1.32</td>
<td>0.95</td>
<td>0.82</td>
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<tr>
<td>NY105</td>
<td>2005-2010</td>
<td>24</td>
<td>1.36</td>
<td>1.25</td>
<td>0.88</td>
<td>0.82</td>
</tr>
<tr>
<td>NY118</td>
<td>2005-2010</td>
<td>19</td>
<td>1.24</td>
<td>1.26</td>
<td>1.36</td>
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</tr>
</tbody>
</table>

\(^1\)Scale of 2 to 0, with 2 = premium grade, 1 = acceptable, 0 = unacceptable

\(^2\)Based upon integrity of seed coat. Includes scores only from trials in which both CELRK and the particular cultivar to which it is being compared were tested together.
Table 5. Black turtle soup canning evaluations (for entries in 2010 trials)
Uniformity of size, acceptability of color, and general appearance - 1987-2010

<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Years in Trial</th>
<th>Sample Number</th>
<th>Uniformity of Size</th>
<th>Uniformity of Color</th>
<th>General Appearance</th>
<th>Midnight Appearance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Black Velvet</td>
<td>1999-2010</td>
<td>43</td>
<td>1.55</td>
<td>1.32</td>
<td>0.85</td>
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</tr>
<tr>
<td>Condor (B00101)</td>
<td>2001-2010</td>
<td>38</td>
<td>1.50</td>
<td>1.47</td>
<td>1.30</td>
<td>0.83</td>
</tr>
<tr>
<td>Eclipse</td>
<td>2004, 2007-2010</td>
<td>18</td>
<td>1.29</td>
<td>1.24</td>
<td>1.04</td>
<td>0.78</td>
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<tr>
<td>Jaguar</td>
<td>1998, 2000-2010</td>
<td>41</td>
<td>1.54</td>
<td>1.39</td>
<td>1.18</td>
<td>0.83</td>
</tr>
<tr>
<td>Jet Black (ISBTR-9)</td>
<td>2004-2010</td>
<td>28</td>
<td>1.35</td>
<td>1.21</td>
<td>1.07</td>
<td>0.86</td>
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<tr>
<td>Jolly Roger (ISBTR-13)</td>
<td>2003-2010</td>
<td>26</td>
<td>1.40</td>
<td>0.94</td>
<td>1.06</td>
<td>0.86</td>
</tr>
<tr>
<td>Midnight</td>
<td>87-90, 92-10</td>
<td>108</td>
<td>1.67</td>
<td>1.47</td>
<td>0.98</td>
<td>-</td>
</tr>
<tr>
<td>Shania (B201240)</td>
<td>2005-2010</td>
<td>24</td>
<td>1.25</td>
<td>1.19</td>
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<td>0.80</td>
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<tr>
<td>T39</td>
<td>87-90, 92-10</td>
<td>90</td>
<td>1.69</td>
<td>1.40</td>
<td>1.21</td>
<td>0.97</td>
</tr>
<tr>
<td>Zorro (B04554)</td>
<td>2006-2010</td>
<td>22</td>
<td>1.28</td>
<td>1.27</td>
<td>1.18</td>
<td>0.81</td>
</tr>
<tr>
<td>GTS1103 (COB 214-99)</td>
<td>2008-2010</td>
<td>8</td>
<td>1.22</td>
<td>1.28</td>
<td>1.06</td>
<td>0.72</td>
</tr>
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<td>COB 223-99</td>
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<td>1.25</td>
<td>1.06</td>
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<td>COB 2159-00</td>
<td>2008, 2010</td>
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<td>1.31</td>
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<td>CU609</td>
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</table>

1Scale of 2 to 0, with 2 = premium grade, 1 = acceptable, 0 = unacceptable
2Based upon integrity of seed coat. Includes scores only from trials in which both Midnight and the particular cultivar to which it is being compared were tested together.
<table>
<thead>
<tr>
<th>Cultivar</th>
<th>Years in Sample</th>
<th>Sample Number</th>
<th>Uniformity of Size</th>
<th>Uniformity of Color</th>
<th>General Appearance</th>
<th>Montcalm Appearance</th>
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<tbody>
<tr>
<td>Cabernet</td>
<td>1994-2010</td>
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1Scale of 2 to 0, with 2 = premium grade, 1 = acceptable, 0 = unacceptable

2Based upon integrity of seed coat. Includes scores only from trials in which both Montcalm and the particular cultivar to which it is being compared were tested together.