Small Fruits at AAFC

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Berry Breeding Program (1920s – 2017)
Small Fruit Germplasm Development Program (est. 2017)
Berry Breeding at KRDC

**Strawberry**
- AAC Lila 2013 Jamieson
- Laurel 2012 Jamieson
- Valley Sunset 2009 Jamieson
- Wendy 2006 Jamieson
- Evangeline 1999 Jamieson
- Brunswick 1999 Jamieson
- Cabot 1998 Jamieson
- Sable 1998 Jamieson
- Mira 1996 Jamieson
- Cavendish 1990 Jamieson & Craig
- Cornwallis 1984 Craig
- Annapolis 1984 Craig
- Blomidon 1984 Craig
- Glouescap 1983 Craig
- Kent 1981 Craig
- Micmac 1978 Craig
- Bounty 1972 Craig
- Acadia 1964 Craig

**Highbush blueberry**
- Kenlate 1941 Eaton
- Kenealy 1950s Eaton
- Kenafter 1950s Eaton
- Kengrape 1941 Eaton

**Lowbush blueberry**
- Novablue 2006 Jamieson
- Fundy 1987 Hall & Jamieson
- Cumberland 1987 Hall & Jamieson
- Blomidon 1982 Hall & Aalders
- Chignecto 1977 Aalders & Hall
- Brunswick 1977 Aalders & Hall
- Augusta 1975 Aalders & Hall

**Elderberry**
- Kent 1960 Eaton
- Nova 1960 Eaton
- Scotia 1960 Eaton
- Victoria 1960 Eaton
- Johns 1954 Eaton

**Cranberry**
- Beaver 1956 Eaton
Germplasm Development at KRDC

How is it different from berry breeding?

- Philosophical distinction: role of government
- Cultivar selection in the hands of producers
- Program is national in scope
Germplasm Development at KRDC

The practical scheme:

- **Crossing**
- **Seedling Selection**
- **Replicated Trials**
- **Multi-Location Trials**
- **Cultivar Naming + Release**

**Objectives set by Industry**

**Process led by AAFC**

**Process led by Industry**

Some management by AAFC
Germplasm Development

Short-term targets

Strawberry (June bearing)
- Mid-late season
- Late season
- Angular Leaf Spot resistant

Raspberry
- Early-mid season floricane
- Primocane?

Blackberry
- Cold hardy thornless

KB 13-1 Blackberry (newest selections are K16-...
Germplasm Development

Ongoing considerations

• Regional adaptation
• Yield potential
• Disease resistance
• Fruit quality
  – size, shape, colour, taste & flavour

• What traits are important to you?