

EarthKind™ Landscape Roses

High Elevation/Drought Tolerance
Trial Overview
Tamla Blunt

EarthKind™ Roses

- Goals of the trial:
 - Reduce pesticides
 - Reduce water use
 - Evaluate rose cultivars for the northern climes
- Cooperators:
 - Started at Texas A&M (Dr. Steve George)
 - U. of Minnesota (Dr. David Zlesak)
 - CSU
 - KSU
 - Iowa State
 - Louisiana State



Alexander Mackenzie

EarthKind™ Northern Brigade

- Alexander Mackenzie
- Carefree Beauty
- Frontenac
- George Vancouver
- John Cabot
- John Davis
- Morden Blush
- Polar Joy
- Prairie Joy
- Sunrise Sunset



Frontenac

EarthKind™ Northern Brigade

- Quadra
- Ramblin Red
- Seafoam
- William Baffin
- Brite Eyes
- Summerwind
- Yellow Submarine
- Sven
- Lena
- Ole



John Cabot

EarthKind™ Northern Brigade



John Davis



George Vancouver

EarthKind™ Northern Brigade



Carefree Beauty



Quadra

EarthKind™ Northern Brigade



EarthKind™ Northern Brigade



William Baffin

EarthKind™ Northern Brigade

Morden Blush



EarthKind™ Northern Brigade

Prairie Joy



EarthKind™ Northern Brigade

Dr. Griffith Buck Roses

Carefree Beauty



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Summerwind



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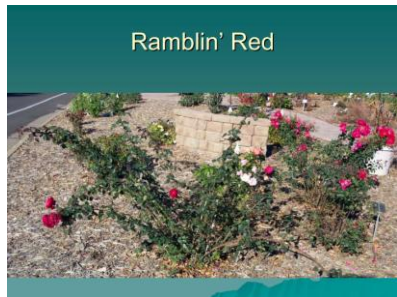
EarthKind™ Northern Brigade



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Colorado Trials 1st Year

- Located in Red Feather Lakes, CO
- About 1 hour NW of Fort Collins
- 8600 ft. elevation
- Soil amended with aged horse manure
- Planted on June 2, 2008
- Snowed on June 3rd



Amended soil before planting

Colorado Trials 1st Year

- Plot design
 - Randomized complete block
 - 4 replications of 20 cultivars
 - 6 ft. centers
 - Total sq ft=~3500



Mulched plot

- Mulched with beechwood mulch
- For the first year, some did better than others
- By the end of the first year, 69% survival

4	13	7	12	20	17	18	4	13	1
16	1	8	14	17	14	15	7	5	20
15	19	3	11	10	2	9	11	6	8
5	9	6	18	2	10	12	3	19	16
3	7	17	11	18	9	19	11	5	2
1	12	20	8	13	20	6	17	12	18
2	8	10	15	9	7	13	16	8	14
5	6	16	19	14	3	15	1	4	10

Plot Plan; numbers correspond to rose varieties

Colorado Trials 1st Year

- Probably won't have to worry about too many diseases or insects
 - Possibly aphids
- Voles, rabbits, ground squirrels and of course, deer are the main concerns
- Winter damage/kill
- Dry winter to start; moisture didn't come in until later in the winter



My "Deer" friends



Ice storm on 10.10.08

Colorado Trials 2nd Year

- Started evaluations of surviving roses
- Evaluation criteria:
 - Landscape rating (0-10; 0=dead)
 - Overall # of open flowers
 - Flower diameter to nearest ¼ inch
 - Overall % of plant covered with flowers



Colorado Trials 2nd Year

- First evaluations on 7.26.09
- 28 live roses; 35% survival rate
- Roses that did the best:
 - 'William Baffin'-4
 - 'Summerwind'-4
 - 'Quadra'-3
 - 'George Vancouver'-3
 - 'John Cabot'-3
 - 'John Davis'-3
 - 'A. Mackenzie' and 'Polar Joy'-2
 - 'Carefree Beauty', 'Brite Eyes', 'Morden Blush' and 'Sunrise Sunset'-1



Colorado Trials 2nd Year

- Second evaluations on 8.24.09
- 24 live roses; 30% survival
- Lost:
 - 'Summerwind'-2
 - 'Polar Joy'-1
 - 'Alexander Mackenzie'-1



Colorado Trials 2nd Year

- Set poles to put up electric fence
- So far, second winter snow cover was early and has been pretty consistent on the plot
- Hopefully, the roses that survived last year will survive into the third year



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**CHAMBLEE'S
ROSE NURSERY**

*Environmentally Friendly Roses for
Environmentally Responsible People*

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