

**Oregon State University North Willamette Research and Extension Center: Aurora, OR  
2020-21 Overwintering Cabbage Variety Trials**

Cabbages were grown using organic practices at the NWREC Learning Farm in Aurora, OR, with starts grown at Westwind Gardens in Forest Grove. Feather meal fertilizer rates were determined by soil tests and nutrient needs and applied as a pre-planting broadcast application. Cabbages were transplanted by hand on August 6, 2020 and spaced 18” within row and 24” between rows, each variety had 24 plants per plot. Transplants were grown in bare ground with drip irrigation until fall rains began.

Harvest evaluation of cabbages took place on 10, January 28, and March 4, focusing on the physical measurements and marketability of harvested heads. Three heads per plot were evaluated and averages of two replicates were recorded. Many farmers west of the Cascades transplant cabbage in late July.

Table 1. Harvest Evaluations from December 10, January 28 and March 4. Average of 3 plants per plot and 2 plots per variety.

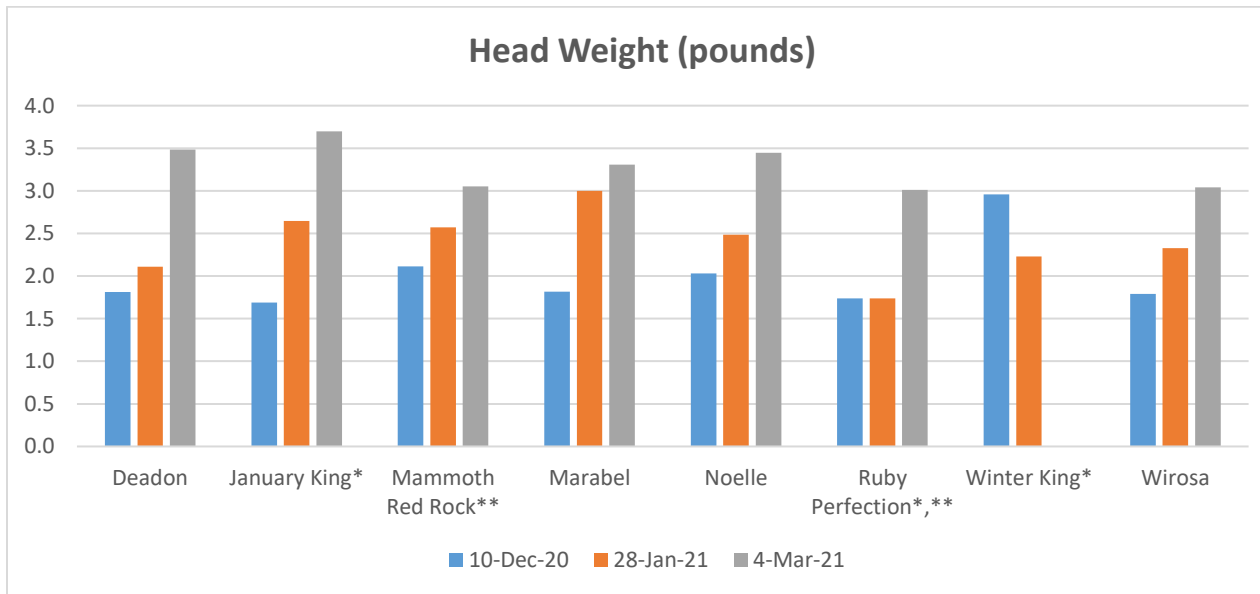
Head Weight (pounds)				
Variety name	10-Dec	28-Jan	4-Mar	Notes
Deadon	1.8	2.1	3.5	Later variety, good looking, starting to see cold injury on outer leaves in March
January King*	1.7	2.6	3.7	Looks good through mid-January, bolting and core expansion through February and March.
Mammoth Red Rock**	2.1	2.6	3.1	In 2020-21 good through January, saw cold damage leaving heads unmarketable in late January.
Marabel	1.8	3.0	3.3	Core lengthening in late January and heads still dense at that time.
Noelle	2.0	2.5	3.4	Beautiful heads in December through the end of January. Core very long in March.

Ruby Perfection ***	1.7	1.7	3.0	Marketable head size in late January, holding well in field through March. Nice, dense heads.
Winter King*	3.0	2.2	X	Good variety through December, quality declines in January due to disease and cold injury.
Wirosa	1.8	2.3	3.0	Nice dense heads later in January and March. Cold injury on outer leaves in March.

\*1 plot per variety, not replicated

\*\* Smooth variety, not savoy

Image 1. Harvest Evaluations on December 10, January 28, and March 4. Average of 3 plants per plot and 2 plots per variety.



\*1 plot per variety, not replicated

\*\* Not a savoy type

Table 2. Core Length Evaluations on December 10, 2020, January 28, and March 4. Average of 3 plants per plot and 2 plots per variety.

Core Length (inches)			
Variety name	10-Dec	28-Jan	4-Mar
Deadon	2.3	3.1	4.0
January King*	3.8	4.5	4.2
Mammoth Red Rock**	3.1	4.6	5.3
Marabel	3.1	3.9	4.0
Noelle	3.1	3.8	4.6
Ruby Perfection ***	2.6	3.2	3.3
Winter King*	3.2	3.4	
Wirosa	2.8	3.3	3.0

\*1 plot per variety, not replicated

\*\* Smooth variety, not savoy

Image 2. Core height to head height evaluations on December 10, January 28, and March 4. Average of 3 plants per plot and 2 plots per variety.

### Core height to head height percentage

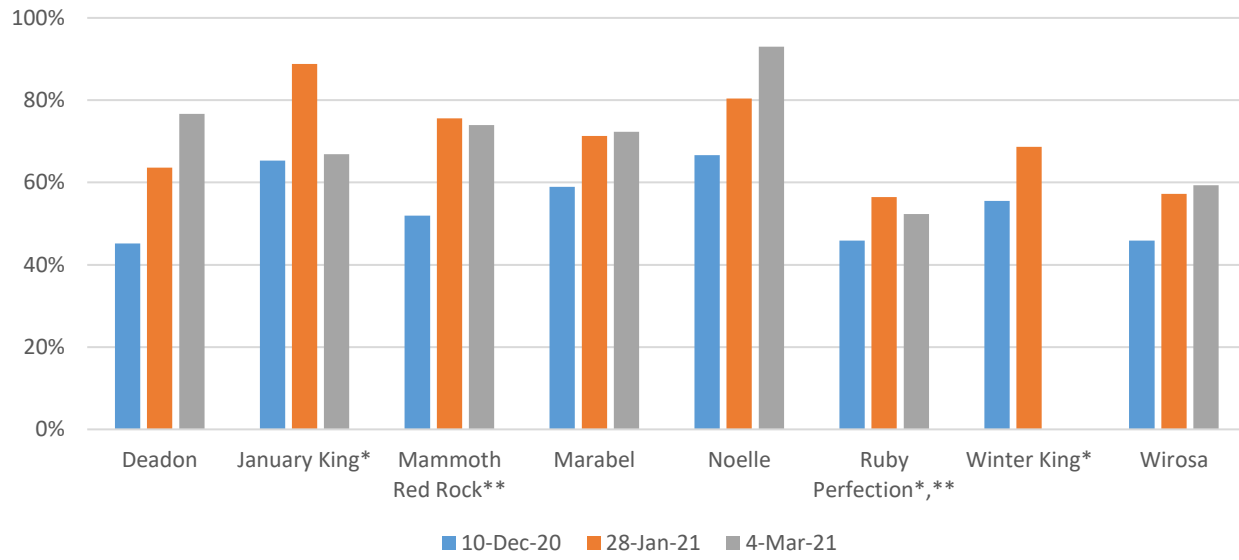
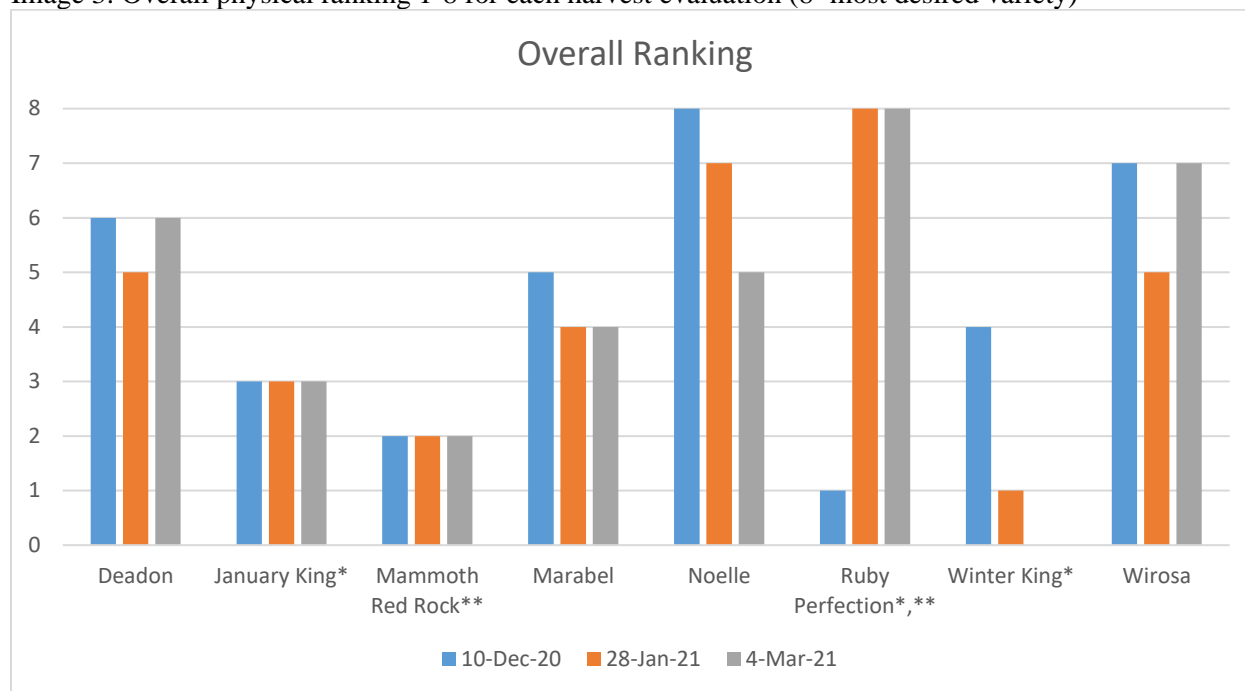


Image 3. Overall physical ranking 1-8 for each harvest evaluation (8=most desired variety)



2020-2021 Overwintering Cabbage Harvest Windows. All varieties were transplanted on August 6, 2020

Variety name	Harvest window	Notes
Wirosa	Late December-March	Jan 20 heads firming up, holding well, no cold damage
Marabel	Late November -	Jan 20 slight slug damage, holding well in field
Noelle	Late November-Mid February	Jan 20 holding well in field

Deadon	Late December-March	Jan 20 slight cold damage on outer leaves
Mammoth Red Rock	Late November-Early February	One plot holding well in field, other plot some heads okay other fungus on outer leaves
January King	Late November-mid-to-late January	January 20 nearing end of harvest window
Winter King	Late November-early January	Cold injury damage begins to show on outer leaves in late November by mid-January lots of rot and disease.
Ruby Perfection	Late December-March	Jan 20 holding well in field

Cabbage harvest photos

December 10

January 28

March 4

Wirosa



Marabel





Noelle



Deadon



Mammo  
th Red  
Rock





January  
King

Winter King



Ruby Perfection





Winter King photos from December 3, 2020

