

# Vanguard Barley

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Vanguard, CI 11868, is a short-stawed, two-row spring malting barley developed for production in the higher rainfall areas of eastern Washington and northern Idaho. It is similar in appearance to Piroline and has the same plant height but is higher yielding. Test weight is the same as Piroline, as the tables show. Vanguard is somewhat superior to Piroline and much better than Heines Hanna or Hannchen in resistance to lodging and shattering.

## Disease Resistance

Vanguard is susceptible to barley yellow dwarf virus, which is not a major problem east of the Cascade Mountains. Other diseases are not a major problem on barley in eastern Washington.

## Malting Quality

Vanguard has a slightly less plump seed than Piroline or Heines Hanna. The overall malting quality of Vanguard is better, while the protein content is lower than Piroline.

## Recommended Areas

Vanguard is recommended in areas with 16 or more inches of rainfall in eastern Washington and northern Idaho.

## Managing Vanguard

Seed Vanguard at 60 pounds per acre. Treat the seed for wire worm control. Fertilize Vanguard at the same rates that have been used on other varieties of two-row malting barley.

## Development of Vanguard

Vanguard was developed by R. A. Nilan and Carl Muir, Department of Agronomy and Soils, College of Agriculture Research Center, Washington State University.

The original cross was (Betzes x Haisa) x Piroline. Section 7155 (Vanguard) from the cross was tested at Pullman for eight years and at Pomeroy, Walla Walla, and Dayton for seven years. It was also tested in Western Regional Uniform Two-Row Nurseries at Moscow and Aberdeen, Idaho; Corvallis, Oregon; and Bozeman, Montana, for the past six years. Preliminary malting tests were conducted by the National Barley and Malt Laboratory at Madison, Wisconsin, and large-scale malting and brewing trials were carried out by industry.

Vanguard is the first new two-row malting barley developed through pedigree breeding in the United States.

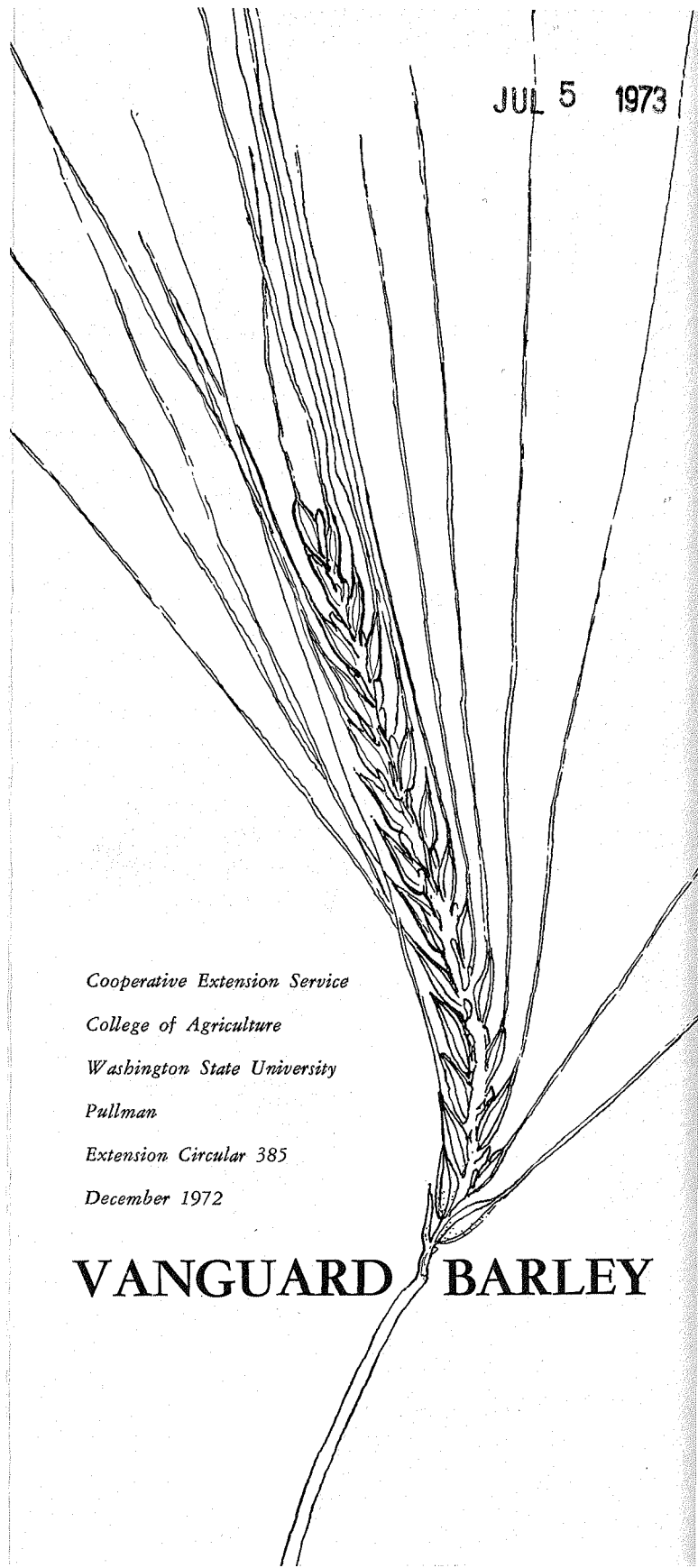
Table 1. Three-Year Average Yield and Other Characteristics of Two-Row Malting Spring Barley in the Higher Rainfall Area

	Plant Height In.	Date Headed	Lodging %	Test Weight Lb./Bu.	Plumpness %	Yield	
						Bu./A	Lb./A
Vanguard	27	6-18	17	54	87	70	3780
Piroline	27	6-18	20	54	89	65	3510
Heines Hanna	27	6-19	32	53	93	52	2756

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Table 2. Three-Year Average Yield and Other Characteristics of Two-Row Malting Spring Barley in the Lower Rainfall Areas of Washington

	Plant Height In.	Lodging %	Test Weight Lb./Bu.	Yield Bu./A	Yield Lb./A
Piroline	25	10	50	40	2000
Vanguard	25	9	50	39	1950



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