HILAND

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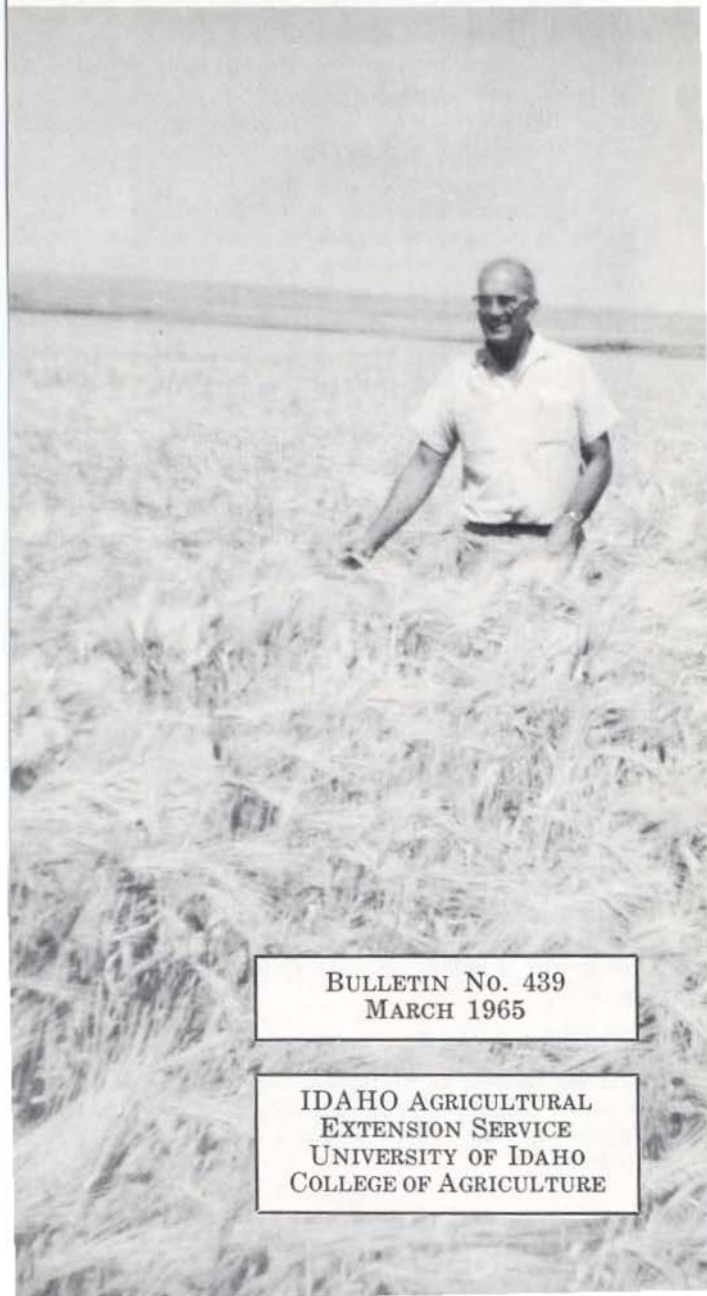

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HILAND

A Six-Rowed Feed Barley
Well Adapted for Irrigation

By H. C. McKay and H. B. Roylance

Hiland is a six-rowed feed barley with semi-smooth awns. It is early maturing, has a short, stiff straw and has shown good resistance to lodging under irrigation. It has a high degree of resistance to shattering, yet it threshes clean with little or no awn remaining on the grain. The kernel has a bluish hue.

The agronomic character of Hiland barley is compared with selected standard varieties. Only Gem shows an earlier heading date. Only Bonneville shows less lodging. All data from the Aberdeen and Tetonia Branch Stations, 1954 through 1962.

Variety	Plant Height	Heading Date	Comparative Lodging	Test Weight
	Inches		Percent	lb./bu.
Hiland	37	6/13	20	50.3
Gem	35	6/6	21	50.1
Trebi	38	6/13	44	51.0
Bonneville	38	6/19	7	49.0
Hannchen	39	6/17	54	54.0
Betzes	36	6/15	24	55.5

History

Hiland (C.I. 9530) resulted from a cross of Ezond W-3 selection x Frontier made in 1944 by D. L. Klingman at the Wyoming Experiment Station. It was released in Wyoming in 1954.

COVER PHOTO: *A field of 1964 certified Hiland barley is inspected by V. S. Cross, Extension Agricultural Agent serving Cassia, Minidoka and Twin Falls county potato programs.*

Disease Resistance

Hiland is resistant to several strains of loose smut.

Area Of Adaptation

Hiland is well adapted to growing in the irrigated areas of south Idaho. It has yielded higher in tests under irrigation at Aberdeen, Twin Falls and Newdale (Fremont County), than Trebi, Gem or Bonneville. It has not yielded as high as Gem or Betzes in tests at Tetonia and probably will not do as well on dry land as the better adapted two-rowed varieties.

Hiland barley yields compared with selected standard varieties.

	Irrigated Trials			Dry Land
Variety	Aberdeen 9 yrs.	Twin Falls 3 yrs.	Newdale 7 yrs.	Tetonia 8 yrs.
		Bushels per acre		
Hiland	125.4	115.6	80.5	28.6
Gem	119.1	—	68.3	30.6
Trebi	122.0	102.0	72.8	28.3
Bonneville	120.2	—	77.0	—
Hannchen	104.6	91.5	64.4	28.4
Betzes	119.8	—	—	31.9

THE AUTHORS: *Both men are University of Idaho faculty members. H. C. McKay is Superintendent, Tetonia Branch Experiment Station. H. B. Roylance is Extension Agronomist, Boise.*

Source Of Seed

Hiland barley was approved for certification in Idaho in 1964. It was grown for certification in seven southern counties in 1964 and seed is readily available this season.

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