

Dr. Robert K. Oldemeyer, Secretary
Grower-GW Joint Research Committee
The Great Western Sugar Company
Agricultural Research Center
11939 Sugar Mill Road
Longmont, Colorado 80501

February 21, 1975

Dear Bob:

The MONO-HY Seed Department requests to enter the following varieties
in official Research Committee trials in 1975:

The "A" Area -- Colorado, Kansas, and Nebraska

MONO-HY A₁
MONO-HY A₂
MONO-HY D₂
Type A Hybrid
73 MSH 128
72 MSH 133

} Juan

The "D" Area -- Montana, Wyoming (Wheatland and Lovell)

MONO-HY D₂
72 MSH 147
73 MSH 178

} Juan

Supporting data for 73MSH 128 and 73MSH 178 is attached.

73MSH 128 gives indications of being an excellent variety with high sugar content characteristics. Six trials in Colorado, Kansas and Nebraska show it 105.6% sugar, with MONO-HY A₁ the standard at 100%. Assuming a 16.0% sugar content, this equals .9 of a percent increase in sugar content. The 1974 trials show the production of recoverable sugar per acre at 99.8% of MONO-HY A₁.

(...continued...)

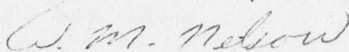
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73MSH 178 is entered in the Montana trials because 1973 results were excellent and root shape is considerably shorter than MONO-HY D2 -- an important factor in some heavy soils of Montana. 1974 trial performance was not equal to 1973; however, we are confident the variety is worth the Committee's support in official trials. Final decisions come later.

Sincerely,



William M. Nelson

General Manager

Seed Department

WMN:kjz

Attachments:

SUPPORTING DATA FOR SUBMITTING VARIETIES FOR TEST
IN THE 1975 INDEPENDENT VARIETY TEST
IN COLORADO, KANSAS, AND NEBRASKA

(Mean Performance 6 Locations ^{1/}1974 - In % of Check Mean)

	<u>REC. SUG.</u> <u>LBS/A</u>	<u>ROOT WEIGHT</u> <u>TONS/A</u>	<u>SUCROSE</u> <u>%</u>	<u>PURITY</u> <u>%</u>	<u>BOLTERS</u> ^{2/} <u>%</u>	<u>LEAF</u> ^{3/} <u>SPOT</u>
73MSH128	99.8	92.6	105.6	100.9	0	5.0
MONO-HY A ₁	100.0	100.0	100.0	100.0	0	6.0

^{1/} Locations are Longmont, Eaton, Scottsbluff, Morrill, Imperial, and Goodland.

^{2/} Bolters in Actual %.

^{3/} Readings from Ohio, 1974.

SUPPORTING DATA FOR SUBMITTING VARIETIES FOR TEST
IN THE 1975 INDEPENDENT VARIETY TEST
IN MONTANA AND WYOMING

	<u>REC. SUG.</u> <u>LBS/A</u>	<u>ROOT WEIGHT</u> <u>TONS/A</u>	<u>SUCROSE</u> <u>%</u>	<u>PURITY</u> <u>%</u>	<u>BOLTERS</u> ^{1/} <u>%</u>
72MSH178 Mean	97.3	98.2	99.4	100.8	0.3
72MSH178 - 1973	100.9	100.8	100.6	101.7	0.0
72MSH178 - 1974	93.6	95.5	98.1	99.9	0.5
MONO-HY D ₂	100.0	100.0	100.0	100.0	0.0

^{1/}
Bolters in Actual %.