The Ohio Agricultural Research and Development Center
and
The Nebraska Agricultural Experiment Station

NOTICE OF RELEASE OF 'OHIO FG1' SOYBEAN TO CERTIFIED SEED PRODUCERS

The Ohio Agricultural Research and Development Center and the Nebraska Agricultural Experiment Station announce the release of a new soybean cultivar named 'Ohio FG1'.

Ohio FG1 was developed at the Ohio Agricultural Research and Development Center as an F_4-derived line from the cross 'LS301' x HS84-6247. Experimental line HS84-6247 is from 'Zane'[3] x HW79149. The germplasm line HW79149 is a source of phytophthora resistance derived by backcrossing with A72-507 ('Amsoy' x 'Wayne') as recurrent parent. Ohio FG1 originated from the same F_2 plant as the cultivar 'Ohio FG2'.

Ohio FG1 was evaluated under the designation HS90-3508 in the Ohio Large-Seeded Test from 1991 to 1993. The three-year mean performance of Ohio FG1 is summarized below:

Entry	Date mature	Lodging (score)[1]	Seed wt.[2]	Protein %[3]	Oil %[3]	Yield (bu/a)
Conrad	9/ 9	1.5	15.7	40.1	21.2	47.7
Beeson 80	9/10	1.9	17.9	41.0	21.2	40.3
Keller	9/10	1.7	18.1	41.0	21.2	41.4
Vinton 81	9/10	2.0	22.4	43.0	20.8	42.5
Chapman	9/11	1.6	18.6	41.0	22.2	49.3
Century 84	9/12	1.4	17.8	42.9	20.5	45.0
Burlison	9/15	1.5	18.4	42.7	20.2	48.7
Ohio FG1	**9/17**	**1.7**	**23.9**	**42.0**	**21.2**	**48.1**
Ohio FG2	9/17	2.1	24.9	42.2	21.1	47.4
HS90-3515	9/17	2.2	24.0	41.4	21.4	48.3
Resnik	9/18	1.3	15.3	41.3	21.1	51.9
Thorne	9/20	1.6	18.2	41.6	21.4	51.3
LSD(0.30)		0.2	0.6	0.4	0.3	2.4

[1]rated from 1 (erect) to 5 (prostrate). [2]grams per 100 seeds.
[3]dry weight basis.

Ohio FG1 is an indeterminate maturity group III cultivar with purple flowers, gray pubescence, and brown pods. Seeds are

dull yellow with yellow hila. Ohio FG1 carries a gene, thought to be Rps3, that derives from PI 82.263-2 and confers resistance to races 1, 4, and 25 of Phytophthora sojae (Kauf. and Gerde.), the causal agent of phytophthora rot.

Seed of Ohio FG1 was evaluated for properties related to tofu production in 1992 and 1993. Ohio FG1 had a soymilk solids content similar to that of Vinton 81. Its soymilk protein content was 3% lower than that of Vinton 81.

Ohio FG1 was released because of its acceptable food quality and its high yield and large seed size in relation to current food-grade cultivars.

Foundation seed of Ohio FG1 will be produced in 1994 by Ohio Foundation Seeds, Inc. The date of release for Ohio FG1 is August 1, 1994. Plant Variety Protection, with the requirement that Ohio FG1 may not be sold except as a class of certified seed, will be applied for.

Certified seed growers located outside of Ohio may produce and sell seed of Ohio FG1 provided they agree to the terms of the royalty policy of the Ohio Agricultural Research and Development Center, The Ohio State University.

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Director, Ohio Agricultural Research and Development Center — Date

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Director, Nebraska Agricultural Experiment Station — Date