

The Ohio Agricultural Research and Development Center

**NOTICE OF RELEASE OF OHIO FG4 and OHIO FG5 SOYBEAN  
TO SEED PRODUCERS**

The Ohio Agricultural Research and Development Center announces the release of two new soybean cultivars, designated 'Ohio FG4' and 'Ohio FG5', intended for production of tofu and other soy foods.

The two cultivars were developed at the Ohio Agricultural Research and Development Center. Their experimental designations were HS98-3754 (Ohio FG4) and HS98-3755 (Ohio FG5). They are F<sub>4</sub>-derived lines from the cross 'Ohio FG1' × HS89-3078. The parent HS89-3078 is from 'GR 8936' × Asgrow 'A2943'. Ohio FG4 and Ohio FG5 were derived from the same F<sub>2</sub> plant. They were evaluated in the Ohio Large-Seeded Test from 2000 to 2002 at four locations annually, and their performance is summarized below:

Entry	date mature	lodging score <sup>a</sup>	seed weight (cg)	height (in)	yield (bu/a)
Ohio FG1	9/20	1.4	22.3	27	50.1
Kottman	9/22	1.2	16.0	28	55.2
General	9/24	1.3	16.8	29	53.4
HS93-4118	9/25	1.4	15.4	28	57.0
Ohio FG4	9/25	1.5	23.0	28	52.5
Ohio FG5	9/24	1.4	23.1	28	51.7

<sup>a</sup>rated from 1 (erect) to 5 (prostrate).

The new cultivars are indeterminate and have purple flowers, gray pubescence, and brown pods. Seeds are dull yellow with yellow hila. Both cultivars carry the gene *Rps3a*, which confers race-specific resistance to *Phytophthora sojae* (Kauf. and Gerde.), the causal agent of Phytophthora root and stem rot.

Averaged across seven Ohio tests from 2000 to 2002, seed of Ohio FG4 had a protein content of 42.5% and oil content of 19.1% (dry weight basis). In the same tests, Ohio FG5 averaged 42.6% protein and 19.3% oil, while the check cultivar Ohio FG1 averaged 42.2% protein and 19.6% oil.

The two cultivars were released because of their higher yield and comparable quality in

relation to other food-type soybean cultivars. They will be released on a contract basis.

Foundation seed of the new cultivars will be produced in 2003 by Ohio Foundation Seeds, Inc. The date of release is August 1, 2003.

---

Director, Ohio Agricultural  
Research and Development Center

Date