



# Horticultural Research, 1985--Overton

**Research Center**

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SOUTHERN COOPERATIVE SNAPBEAN VARIETY AND BREEDING LINE TRIAL - 1984

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INTRODUCTION

The 1984 snapbean trials were composed of replicated and observational entries. There were 7 replicated entries and 20 observational. The cultivar Eagle was used as a check variety for both the replicated and observational trials.

METHODS AND MATERIALS

The area was disked and then bedded on 40-in. centers. The replicated plots were laid out in a randomized block design with 3 replications. Each plot was 20 ft. long with a 3-ft. alley separating plots. Each plot was planted using a Planet Jr. push type planter. All plots were sidedressed with 600 lbs 12-12-12 per acre 3 weeks after emergence. Weeds were controlled by cultivation with a Lilliston cultivator. Water was applied by sprinkler as needed.

Several ratings and measurements were taken on both the observational (Table 1) and replicated (Table 2).

RESULTS AND DISCUSSION

Of the 6 entries in the replicated trial, FM 1555 was superior over the check variety Eagle in yield and was rated number one in the trial, followed by B 2868 which was ranked second, and FM 103 third.

In the observational test, MOX 8037, FM 128, H 532-2-1, H 492-3-1, and GP 82-6414 were recommended to be advanced to the 1985 trials. Breeding lines MOX 8033, H 630-4-4, GP 82-160, GP 81-WM-173-1, Labrador, and FM 102 were recommended to be repeated in the observational test in 1985. It was recommended that the remainder of the lines be dropped.

Breeding line H 532-2-1 was rated number one in overall performance, followed by MOX 8037 second, and GP 82-6414 third.

Table 1. Observational trials of bush snapbean varieties, 1984 Southern Cooperative Vegetable trials.

Variety	Plant type rating*	Pod type rating*	Yield rating
MOX 8037	4	4	5
MOX 8033	2	3	4
AVX 9398	4	3	2
MVX 117	3	4	2
FM 128	4	4	4
H493-1-4-1	4	2	2
H491B-1-1-3-1	4	4	3
H532-2-1	4	3	5
H492-3-1	4	4	4
H630-4-4	4	4	3
83BP-5597	4	2	2
83BP-5601	4	3	2
83BR-1275	4	3	1
GP82-160	2	3	4
GP82-6414	4	4	5
GP81-206	4	4	3
GP81-WM-173-1	4	2	4
Labador	3	4	3
FM 102	4	4	3
Eagle (check)	3	3	2

\*Ratings, 1-5: 1 = poor; 5 = excellent.

Table 2. Replicated trials of bush snapbean varieties, 1984 Southern Cooperative Vegetable trials.

Variety	Growing <sup>1</sup> days	Pod <sup>2</sup> shape	Pod <sup>3</sup> length (in)	Plant <sup>4</sup> height (in)	Yield <sup>5</sup> (bu/A)
AVX 9342	59	3	4½	15	71
AVX 185	59	4	5	12	113
FM 103	59	4	5	15	161
FM 1555	59	4	5½	13	176
H496-4	59	5	5	10	119
Eagle (check)	59	5	5	15	56
G2868	59	4	5½	16	176
L.S.D. .05	-	-	-	-	43

1) Days from planting to harvest.

2) 1 = flat; 5 = round.

3) average length of 25 pods.

4) height of plants.

5) yield in 30 lb Bu/A.