Selecting Varieties to Match Yield Goals. (A08-dunphy134200-Oral)

Authors:

- E.J.Dunphy* - *North Carolina State University*
- G.G.Wilkerson - *North Carolina State*
- D.T.Bowman - *North Carolina State University*
- G.S.Buol - *North Carolina State University*

Abstract:

A wide range of possible uses naturally leads to a wide range of ways to establish a yield goal. What is appropriate for a specific field or farm may be entirely inappropriate for a county or state. Although most soybean varieties released have historically been all-purpose varieties (perform similarly in most environments), more are currently staying on the market that perform noticeably better in selected situations (e.g. full-season but not double-crop). Utilizing computers and databases, we have focused on using readily available data from our soybean Official Variety Tests (O.V.T.) to evaluate variety performance based on yield environment. We now classify varieties as 'contest varieties' (varieties which tend to rank higher in higher-yielding environments), 'typical varieties' (varieties rank similarly at all yield levels), or 'stress-tolerant varieties' (varieties rank higher in lower yielding environments). We also predict how we expect the varieties to rank (within their own maturity group) in a low-, medium- or high-yielding environment. By using this classification scheme, we can refine our variety recommendations, based on a producer's yield goal(s).

Corresponding Author Information:

E. James Dunphy
N. C. State University
NCSU, Box 7620
Raleigh, NC 27695-7620

phone: 919/515-5813
fax: 919/515-5855
e-mail: jim_dunphy@ncsu.edu

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