Coats, G.E. (1980) Growth Regulator Effects on Cottonseed Treatment. State College, Miss.: Mississippi State University, Agricultural Experiment Station. (Mississippi Agricultural Experiment Station information sheet 935)

SUBST. CLASS = 3.

OTHER SUBJECT DESCRIPTORS:
PRIM. EFF = 1%/55

DIRECT RVX TIME = 0.5 (H) START-DATE 24 OCT 1980 END DATE 24 OCT 1980

REVIEWED BY: Robert W. Holst, Ph.D.
TITLE: Plant Physiologist
LOC/TEL: Rm 807 EM/557-0320

APPROVED BY: 
TITLE: 
ORG: 
LOC/TEL: 
SIGNATURE: 
DATE: 24 OCT 1980

2003828
Chemical: 1-Naphthaleneacetic acid

Citation: Coats, G. E. (1966) Growth Regulator Effects on Cottonseed Treatment. State College, Miss.: Mississippi State University, Agricultural Experiment Station. (Mississippi Agricultural Experiment Station information sheet 935)

Reviewer: Robert W. Holst, Ph.D., Plant Physiologist Hazard Evaluation Division/Ecological Effects Branch

Validation Date: 10/24/80

Test Title: Cotton - Germination & Growth

Conclusion: At 0.1 ppm or greater germination and growth are delayed or inhibited.

Validation: This study is scientifically sound.
Materials and Methods: Cotton (var Stoneville 213) seeds were soaked with NAA .0001 to 100 ppm for 24 hrs. Nine other varieties were tested. Plants were grown to maturity.

Results: Concentration greater than 0.1 ppm delayed or inhibited germination. At 100 ppm germination was delayed 10-14 days, the primary root became enlarged, the mature roots were branched as compared to a main taproot for the controls, and the plants were 25% taller. However there was no detrimental effect on yield/plant.