CHEM 055002 1-Naphthaleneacetic acid

BRANCH EEB DISC 20 TOPIC 20102007

FORMULATION 00 = ACTIVE INGREDIENT

FICHE/MASTER ID 05016399 CONTENT CAT 03

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 = S.

OTHER SUBJECT DESCRIPTORS
PRI: EFF =10=55

DIRECT RVW TIME = 0.5 (MH) START-DATE 24 OCT 1980 END DATE 24 OCT 1980

REVIEWED BY: Robert W. Holst, Ph.D.
TITLE: Plant Physiologist
ORG: Sect. 1, Ecol. Eff. Br. HED OPP
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SIGNATURE: R.W. Holst DATE: 24 OCT 1980

APPROVED BY:
TITLE:
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SIGNATURE: DATE:

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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.