

US EPA ARCHIVE DOCUMENT

8-16-76

EEE BACK REVIEW

DATE: IN _____ OUT _____ IN _____ OUT _____ IN 8-13-76 OUT 8-16-76
FISH & WILDLIFE ENVIRONMENTAL CHEMISTRY EFFICACY

FILE OR REG. NO. 241-243

PETITION OR EXP. PERMIT NO. _____

DATE DIV. RECEIVED 7/28/76

DATE OF SUBMISSION _____

DATE SUBMISSION ACCEPTED _____

TYPE PRODUCT(S): I, D, (H) F, N, R, S Herbicide

PRODUCT MGR. NO. 25

PRODUCT NAME(S) Prowl

COMPANY NAME American Cyanamid Company

SUBMISSION PURPOSE Aerial application on soybeans

CHEMICAL & FORMULATION [N-(1-ethylpropyl)-3,4-dimethyl-2,6-dinitrobenzenamine]

43.8%
4 pounds a.i./gallon

200.0 Introduction

200.1 Uses: see attached sheets

200.2 Background information: Pro^w 4E was registered as a pre-plant incorporated treatment for soybeans 6/9/76 by ground application. This request is to add aerial application as an alternate method of applying Pro^w 4E and Pro^w 4E + Sencor 50W preplant incorporated or Pro^w 4E PPI and Sencor 50W PE on soybeans.

201.0 Data Summary ^{treatment}

201.1 Abstract of test reports: Tests were conducted in Oklahoma, Missouri, Mississippi, Arkansas, Louisiana and Indiana. Pro^w alone and tank mixed with Sencor was applied by ground and aerial spray equipment. In those experiments that could be used in the evaluation, the weeds present in the plots (those listed on the label as controlled) were adequately controlled at the label recommended rates. In all the test data submitted, no phytotoxicity was noted. Incorporation was either immediately or 1 to 10 days after application. In a few of the tests where 1/4 inches or more rainfall occurred within seven days after application, the herbicides were not mechanically incorporated. The yield of the treated plots was greater than the check in all cases where the yields were reported. The method of application (ground or air) did not appear to have any effect on the weed control or yield and appeared to be equal in most tests.

201.1.2 Data summaries: see attached tables.

202.0 Conclusions

202.1 Claims supported by data submitted: The claims for aerial application of Pro^w 4E and Pro^w 4E + Sencor 50W as pre-plant incorporated or Pro^w 4E PPI and Sencor 50W PE are supported by the data submitted.

202.2 Comments on Contents of Data submitted: Tests 75-M20K and 75-M210 could not be used in evaluating the data because each had a sequential treatment of herbicides other than recommended on the label. Tests 76-C34A and 76-C34d were of doubtful value as two cultivations had occurred before data on weed control was taken.

203.0 Recommendations

The aerial application of Pro^w1 4E and Pro^w1 4E + Sencor 50W preplant incorporated or Pro^w1 4E preplant incorporated and Sencor 50W preemergence for weed control in soybeans is acceptable.

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8/20/76



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