Date Out EFB: 0 3 MAR 1982

To:	TS-767		•
From:	Dr. Willa Garner JL Chief, Review Section No. 1 Environmental Fate Branch		
Attach	ed please find the environmenta	l fate review of:	
Reg./F	ile No.: TX-810047		
Chemica	al: Endothall		
Type P	roduct: Herbicide		÷
Produc	t Name: Accelerate		
Compan	y Name: Penwalt		
Submis	sion Purpose: Drift data - use	on cotton in Texas - 24c	
regis	tration		
ZBB Co	de:24c	ACTION CODE: 581	• <u> </u>
Date i	n:1/28/82_	EFB # 154	
Date C	ompleted: 0 3 MAR 1982	TAIS (level II)	Days
Deferr	als To:	53	1
	Ecological Effects Branch		
	Residue Chemistry Branch		
	Toxicology Branch		

## 1.0 INTRODUCTION

The Texas Department of Agriculture has submitted drift data in support of a 24(c) registration for endothall use on cotton in Texas.

# 2.0 Accelerate: endothall 7-oxabicyclo(2.2.1)heptane-2,3-dicarboxylic acid

active ingredient: mono(N,N-dimethylaklylamine) salt of endothall

#### 3.0 DISCUSSION

Accelerate is a cotton harvest aid when used in combination with organic phosphate or sodium chlorate cotton defoliants. Accelerate speeds the leaf drop and achieves more complete defoliation.

When applying aerially using ULV oil, sodium chlorate defoliants are not to be used, only organic phosphate type. Pilots are instructed to fly as close as possible to plant tops and not to apply in excessive winds.

Drift data were obtained by performing two tests. The first test (Test I) used 5 gal of water per acre and the second (Test II) used one quart cotton seed oil. Each test also used 1.5 pt of a defoliant and 1 pt Accelerate.

Forty moisture sensitive strips were spaced 2 ft apart for each test in a north-south line with card #1 being on the north end. The wind was southerly at 25-30 mph. Card #20 was center line in each test.

Test I (water) results show considerable drifting of material to the north (card #1) while in Test II (ULV oil) no drifting appears to occur. (See attachment).

# 4.0 CONCLUSIONS

The use of ULV oil does appear to decrease drift possibilities even in winds blowing at 25-30 mph as they were during these tests. These wind speeds would be considered excessive under normal conditions.

### 5.0 RECOMMENDATION

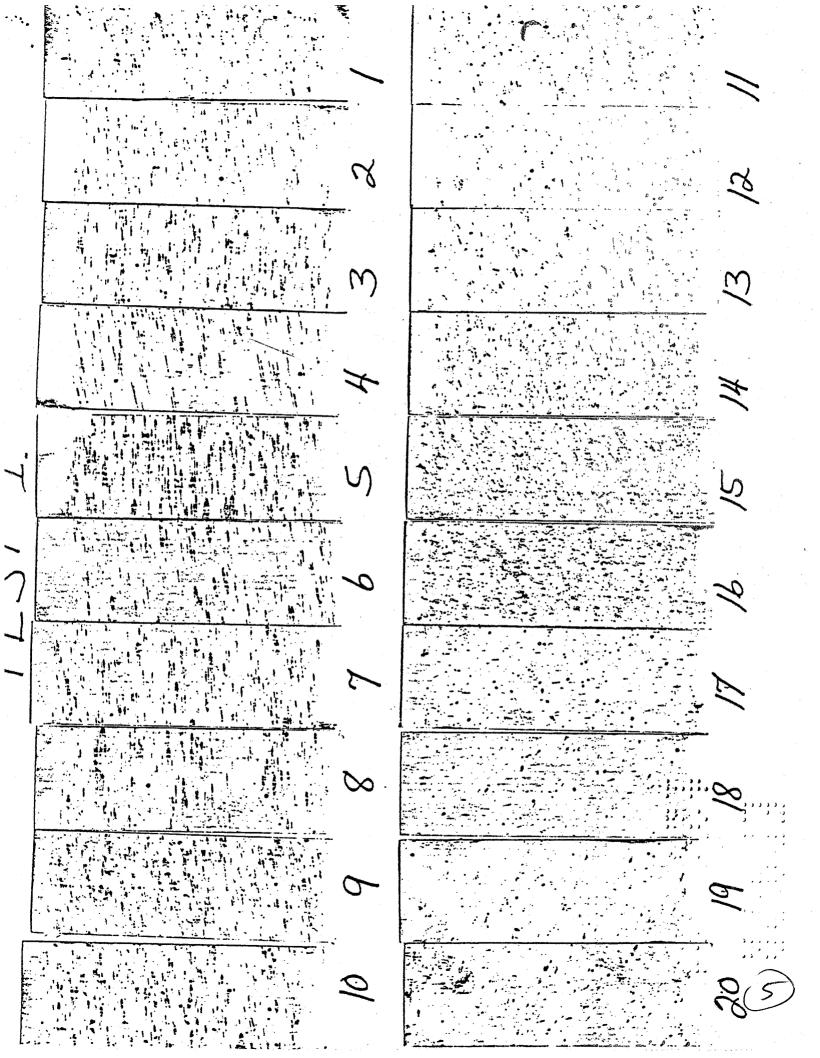
EFB concurs with the granting of this 24(c) registration to Texas for endothall use as a harvest aid for cotton.

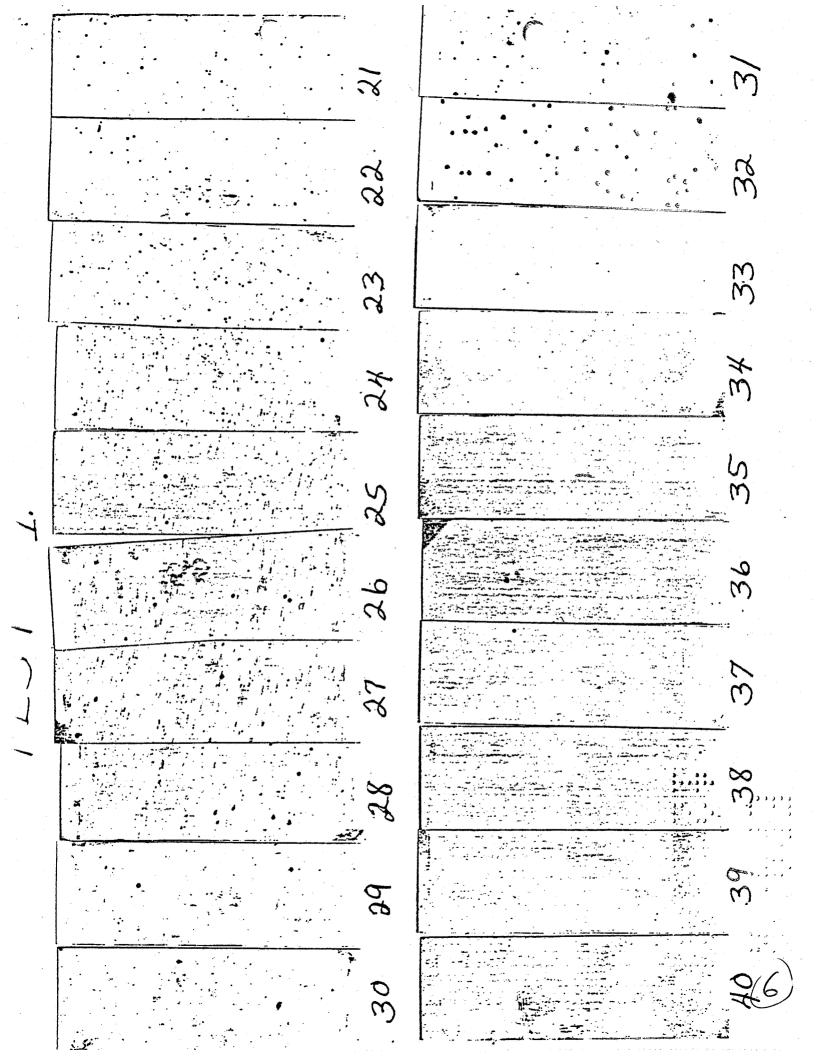
Richard V. Moraski

Review Section No. 1

Environmental Fate Branch

Test 1 Folcouch TX 1.5 pts Def Air Tractor 1 pt Accel. 600 Mp. 5 gals Water Wind-15-20 MPH Test II 1.33 pts Def 1 pt. Accel. (2) A gt. Cotton Seed Oil Wind-25-30 MPH 40 Cards spaced a ft. apart for each test Numbered 1-40 from Left-Right or North-South. "South wind blowing" Card # 20 was center Line in each test Ciba Geian Moisture sensitive paper & Adding Machine paper was used in each test Test I is identified by number only 19. (1-40) Test I is identified by number & II. Id. is written on back of the Moisture sensitive





. . . Detter Line .

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22	32
33	- 53
77	34
25	35
3%	36
27	37
38	
39	60
30	<b>X</b> 8