

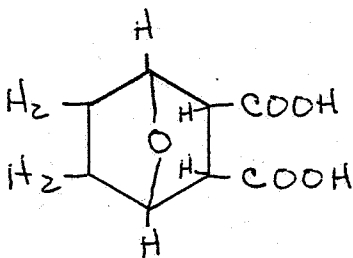
US EPA ARCHIVE DOCUMENT



## 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 aeriually 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.

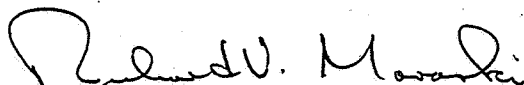
Test I (water) results show considerable drifting of material to the north (card #1) while in Test II (ULV oil) no drifting appears to occur. (See attachment).

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

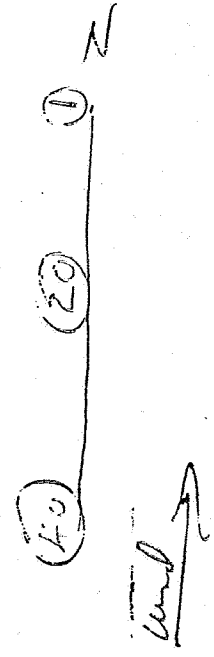
Test I Edcouch, TX → Service

1.5 pts Def Air Tractor  
1 pt Accel. 600 hp.

5 gals Water  
Wind - 15-20 MPH

Test II

1.33 pts Def  
1 pt. Accel.  
1 qt. Cotton Seed Oil  
Wind - 25-30 MPH



40 Cards spaced 2 ft. apart for each test  
Numbered 1-40 from left-Right  
on North-South. "South wind blowing"  
Card # 20 was center line in each test

Ciba-Geigy moisture sensitive paper &  
Adding Machine paper was used in each test

Test I is identified by number only 1-40

Test II is identified by number & II.

Id. is written on back of the moisture sensitive  
as well as all.

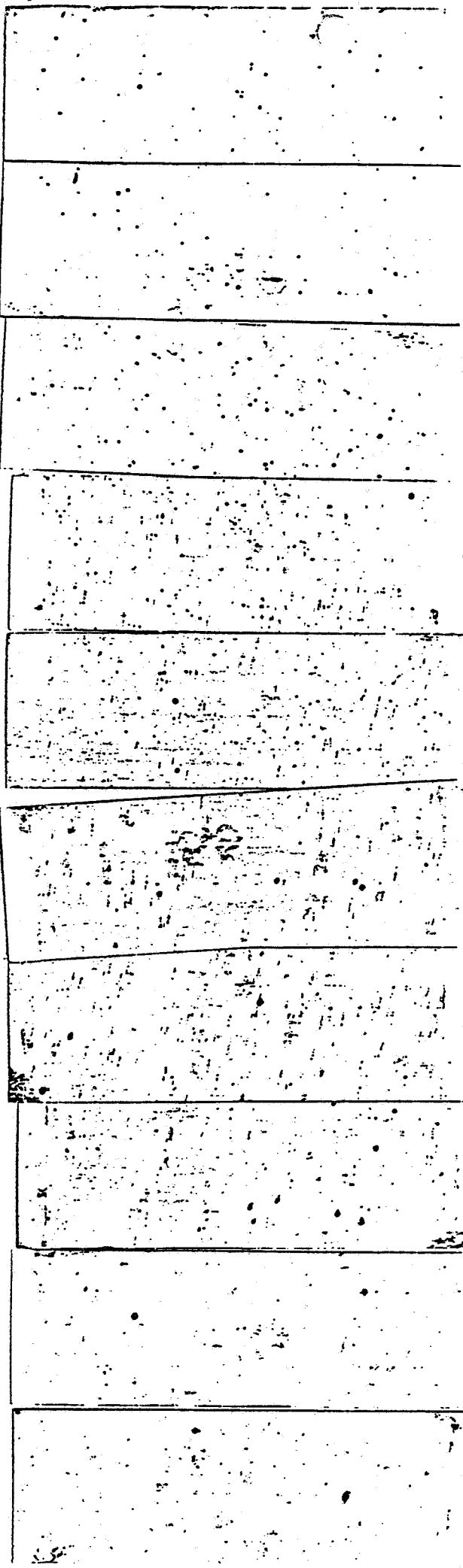
1 L 2 1 L

10 9 8 7 6 5 4 3 2 1

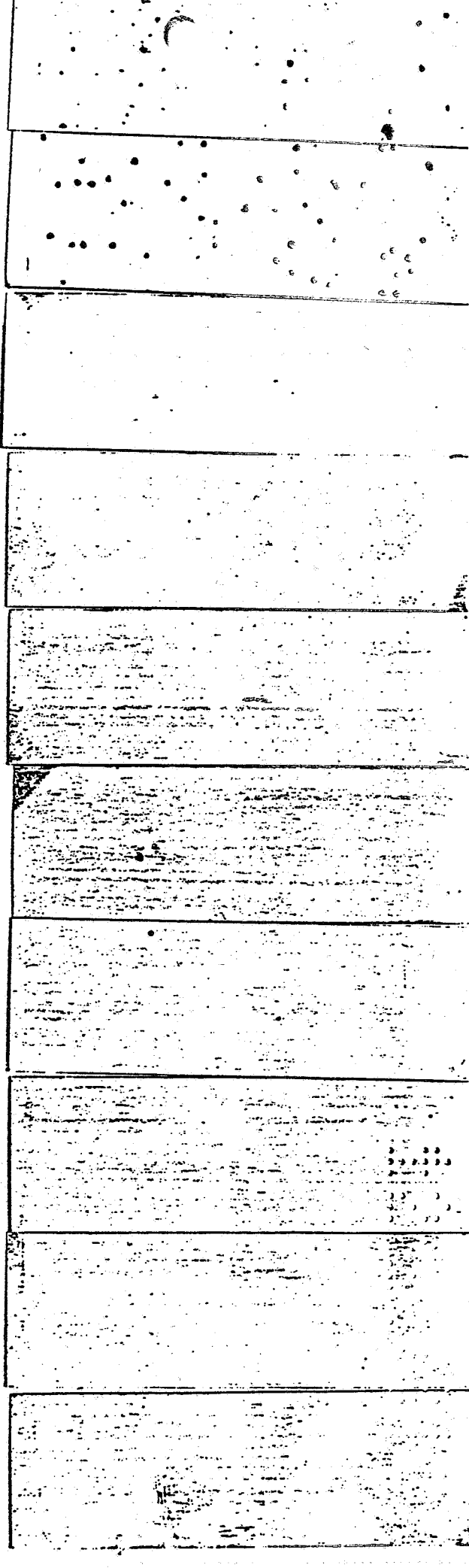
20 19 18 17 16 15 14 13 12 11

(5)

1 L U I L

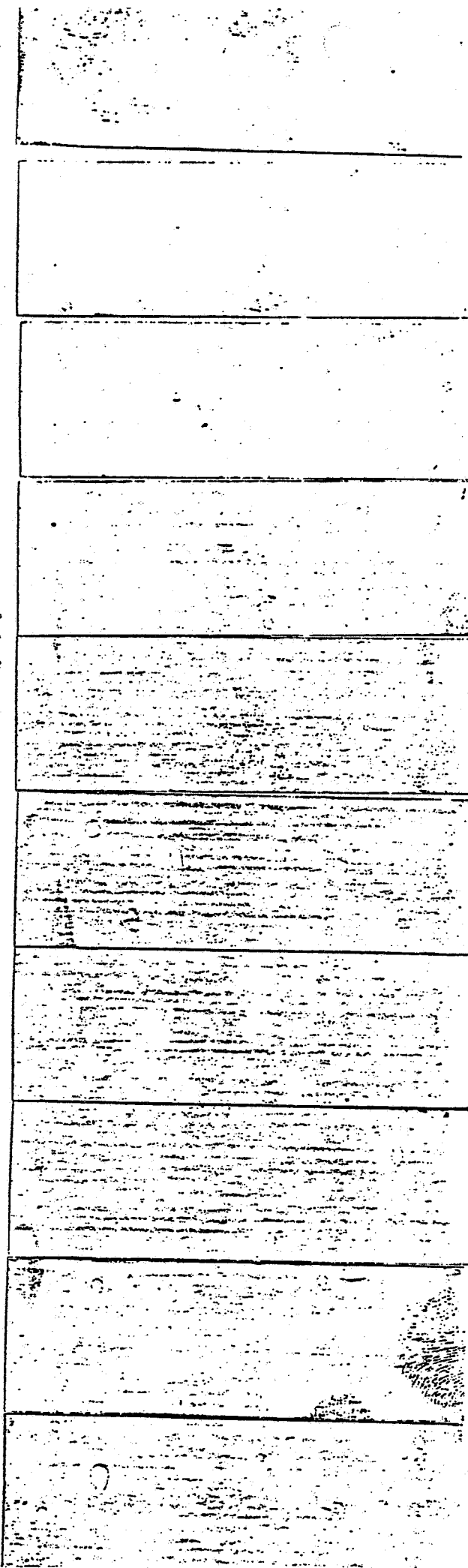


21 22 23 24 25 26 27 28 29 30

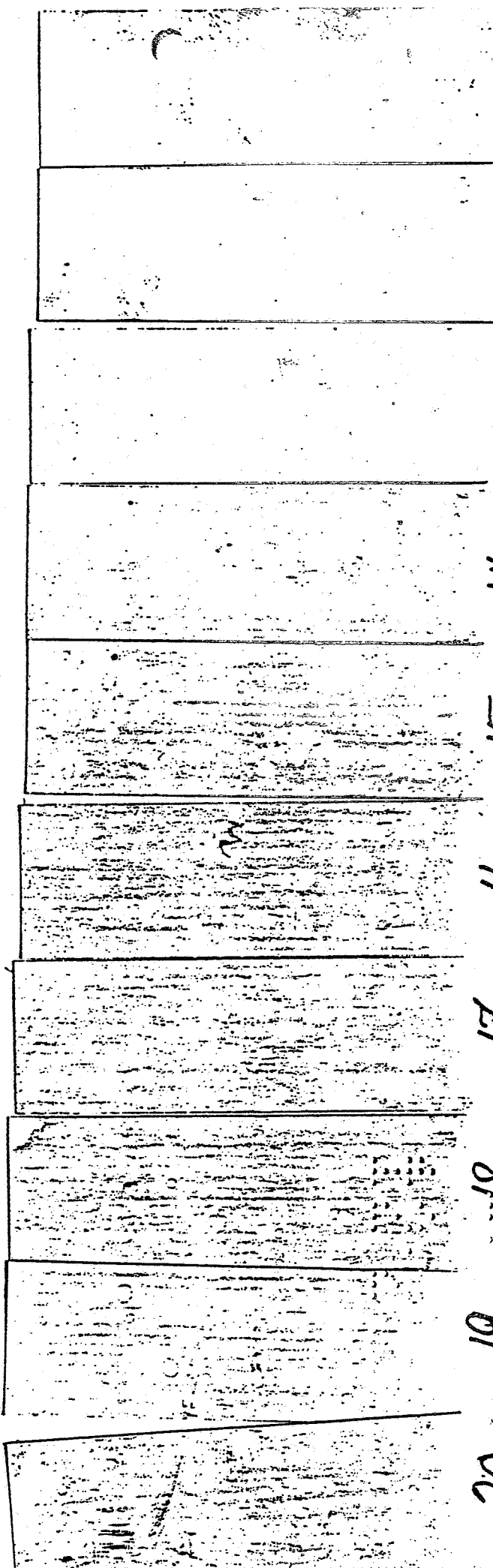


31 32 33 34 35 36 37 38 39 40  
(6)

1ES1 II.



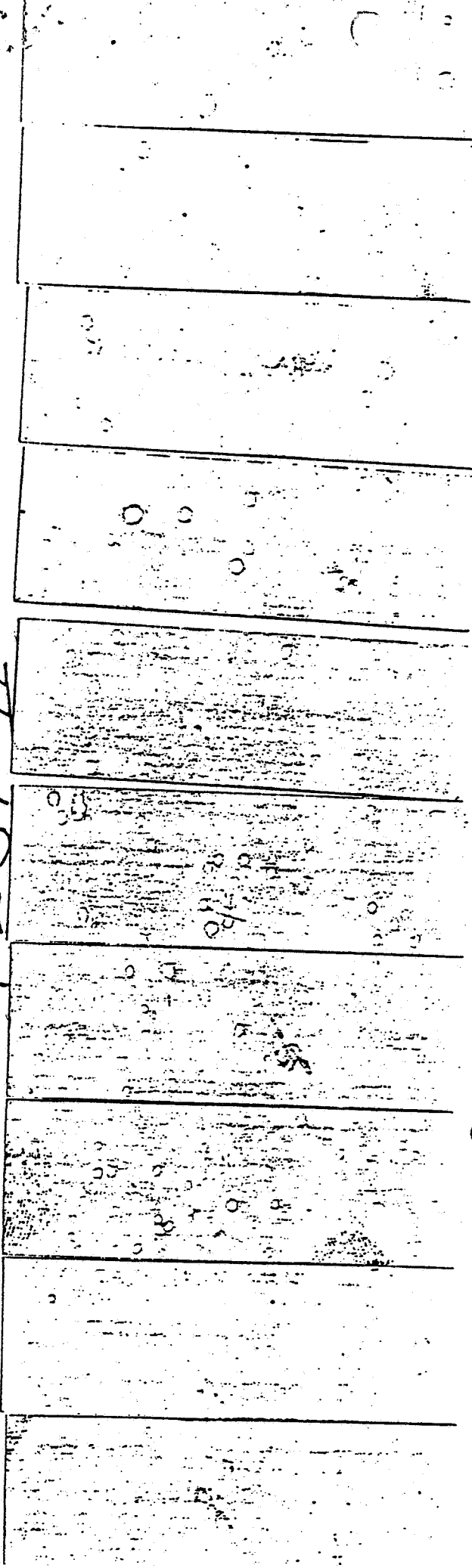
10  
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1



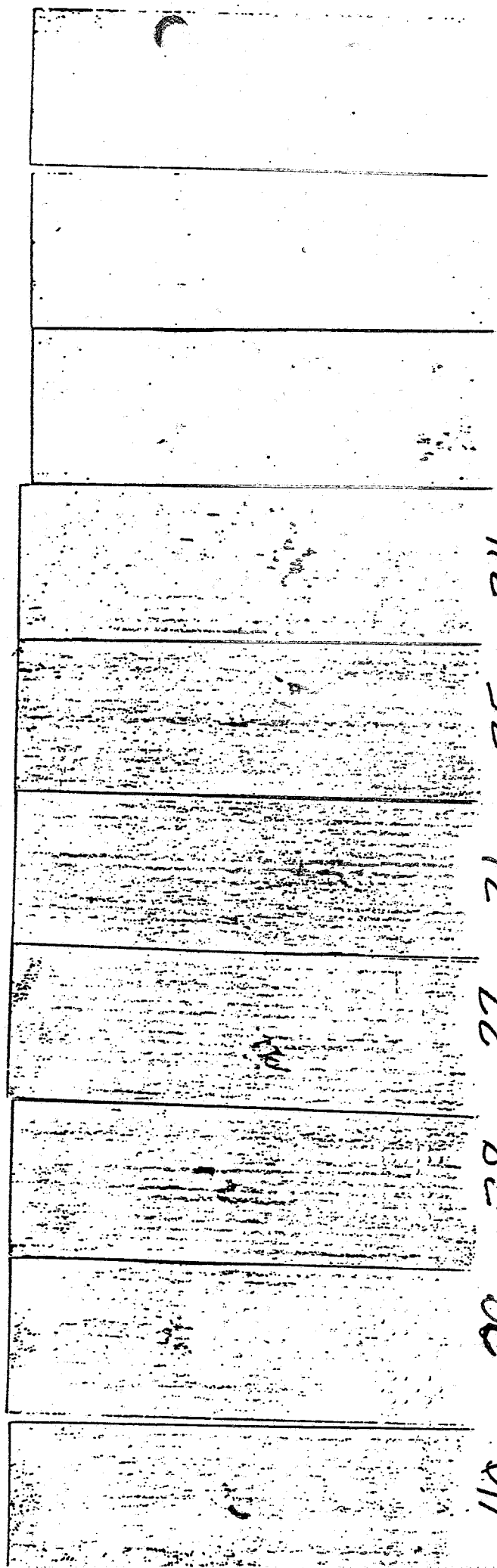
20  
19  
18  
17  
16  
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14  
13  
12  
11



TEST II



30 29 28 27 26 25 24 23 22 21



40 39 38 37 36 35 34 33 32 31