

[D] 病虫害防除試験

[D]-1 水稻主要害虫

[D]-1-1 SPRAYING PERIOD AND TIMES

FOR MAJOR INSECT PESTS ON LOWLAND RICE

Desa: Sidomulyo

Kecamatan: Talang Padang

Transplanting time: Dec. 19, '79

Harvesting time: Mar. 31, '80

Applied chemicals: Diazinon 60 EC (2 cc/l)

Applied period and dosis: (A) 15 days after transplanting (500 l/Ha)

(b) 45 days after transplanting (1000 l/Ha)

(c) 60 days after transplanting (1000 l/Ha)

Treatment: No. 1. Check (No spraying) (0)

No. 2. Spraying once, (A) (1x)

No. 3. Spraying twice, (A) and (B) (2x)

No. 4. Spraying thrice, (A), (B) and (C) (3x)

Results obtained are as follows:

variety	treatment	rice stem borer		white head (%)	yield (Kg/30m <sup>2</sup> )
		dead heart (%)			
		30 dat.*	60 dat.*		
IR 36	No. 1. (0)	2.3	1.3	4.3	21
	2. (1x)	2.1	1.1	2.4	22
	3. (2x)	1.7	1.3	2.6	19
	4. (3x)	1.5	1.0	2.5	21
Asahan	No. 1. (0)	2.6	1.1	3.4	19
	2. (1x)	2.7	1.3	2.5	19
	3. (2x)	2.0	0.7	1.7	17
	4. (3x)	1.4	1.3	1.1	18
Serayu	No. 1. (0)	3.0	2.2	3.4	22
	2. (1x)	1.5	1.2	3.7	27
	3. (2x)	1.0	1.2	2.5	24
	4. (3x)	1.1	1.2	1.5	25
Mean	No. 1. (0)	2.6	1.7	3.7	20
	2. (1x)	2.2	1.2	2.9	22
	3. (2x)	1.6	1.1	2.3	20
	4. (3x)	1.7	1.2	1.7	21

\* dat. = days after transplanting

1. The damage of the dead heart of rice stem borer (both 30 and 60 days after transplanting) was a few found, so effect of applied chemicals was not clear.
2. The occurrence of the white head of rice stem borer was a few found, but there were significant differences between above treatment in white head of rice stem borer.
3. The effect of applied chemicals to yield was not clear because the damage of rice stem borer was a few found, moreover, there was no occurrence of rice bug and plathopper.

Analysis of variance:

White head of rice stem borer	Factor	d.f.	s.s.	Variance	F-value
	Total	35	72.29		
	Block	2	6.45	3.23	
	Variety	2	4.32	2.16	
	Error I (BxV)	4	14.49	3.62	
	Treat.	3	19.59	6.52	5.32**
	V x T	6	5.38	0.90	
	Error II	18	22.08	1.23	
	{ (B x T) (B x V x T)				

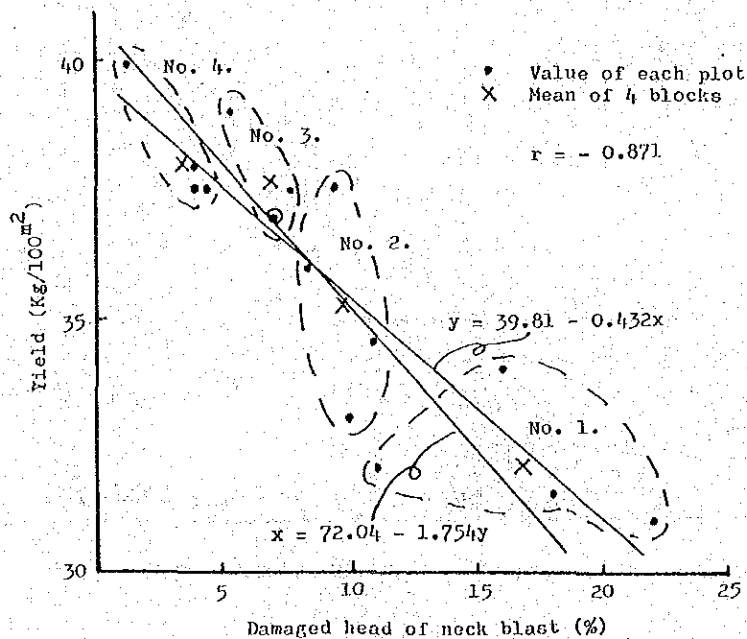
[D]-3 陸稲いもち病

[D]-3-1 SPRAYING PERIOD AND TIMES  
FOR RICE BLAST ON UPLAND RICE

Desa: Tran Budidaya Kecamatan: Ketibung  
 Sowing time: Oct. 14, '79 Variety: Bicol  
 Applied chemicals (concentration): Kitazin P (1cc/l)  
 Applied period and dosis: (A) 30 and 40 days after sowing  
 (500 l/Ha) for leaf blast  
 (B) 75 and 90 days after sowing  
 (1,000 l/Ha) for neck blast  
 Treatment: No. 1. Check (No spraying)  
 No. 2. Spraying twice, (A)  
 No. 3. Spraying twice, (B)  
 No. 4. Spraying four times, (A) and (B)

Results obtained are as follows:

No.	spraying period (days after sowing)	leaf blast (%)	neck blast damaged head(%)	yield (Kg/100m <sup>2</sup> )
1.	-- -- -- --	5.5	16.8	32.1
2.	30, 40 -- --	1.1	9.7	35.4
3.	-- -- 75, 90	3.8	6.9	37.6
4.	30, 40, 75, 90	0.5	3.4	38.0



1. There were significant differences between treatment in above three items observed.

leaf blast: Spraying group (Nos. 2 and 4) < Non spraying group  
(Nos. 1 and 3)

neck blast: No. 1 > Nos. 2, 3 and 4  
No. 2 > No. 4

yield : No. 4 > No. 2 and 1, No. 3 > No. 1

2. There was a high minus correlation between the damaged head of rice blast and yield, and the coefficient of correlation was -0.871.
3. Then the fungicide application was very effective, especially the yield at the plot of four times' application increased 600 Kg/Ha more than at the check plot.
4. The place of this trial was very windy, then the occurrence of blast disease was a few found, especially leaf blast occurred only a few.
5. In only a few occurrence of leaf blast, it seems that the fungicide application on 75 and 90 days after sowing against neck blast was more effective than the application on 30 and 40 days after sowing against leaf blast.

Analysis of variance

leaf blast

Factor	d.f.	s.s.	Variance	F-value
Total	15	68.22		
Block	3	0.56	0.10	
Treat.	3	64.70	21.57	65.36**
Between groups (spray: non-spray)				
	1	58.14	176.18	533.88**
Within group				
	2	3.28	1.64	4.96
Error	9	2.96	0.35	

neck blast

Total	15	466.02		
Block	3	18.98	6.32	
Treat.	3	389.71	129.71	20.17**
Error	9	57.89	6.43	

1sd. = 5.81 (1%)

yield

Total	15	114.86		
Block	3	17.42	5.81	10.56**
Treat.	3	92.47	30.68	55.78**
Error	9	4.97	0.55	

1sd. = 1.70 (1%)

[D]-3-2 SPRAYING PERIOD AND TIMES  
FOR RICE BLAST ON UPLAND RICE

Desa: Tanjung Jaya                      Kecamatan: Bangung Rejo  
Sowing time: Nov. 5, '79                Variety: Bicol  
Applied chemicals (concentration): Kitazin P (1 cc/l)  
Applied period and dosis: (A) 30 and 40 days after sowing  
(500 l/Ha) for leaf blast  
(B) 75 and 90 days after sowing  
(1000 l/Ha) for neck blast  
Treatment: No. 1. Check (No spraying)  
No. 2. Spraying twice, (A)  
No. 3. Spraying twice, (B)  
No. 4. Spraying four times, (A) and (B)

Results obtained are as follows:

No.	spraying period (days after sowing)	neck blast damaged head (%)	yield (Kg/100m <sup>2</sup> )
1.	-- -- -- --	12.9	29.9
2.	30, 40 -- --	11.0	34.4
3.	-- -- 75, 90	11.4	30.0
4.	30, 40, 75, 90	9.7	33.1

1. There were significant differences among check, spraying twice and four times groups in percentages of the damaged head of neck blast.
2. In this trial, leaf blast was not observed and there were no significant differences between treatments in yield. And it was no correlation between neck blast and yield. So it was difficult to analyze the effect of the fungicide spraying. It requires further examination.

Analysis of variance:

Damaged head of neck blast	Factor	d.f.	s.s.	Variance	F-value
	Total	15	38.72		
	Block	3	12.30	4.10	6.61*
	Treat.	3	20.83	6.94	11.20**
	Between groups (Check: twice; four times)	2	20.51	10.25	16.53**
	Within group (twice group)	1	0.32	0.32	
	Error	9	5.59	0.62	





[D]-4 大豆害虫

[D]-4-1 SPRAYING PERIOD AND TIMES  
FOR INJURIOUS INSECTS ON SOYBEAN

Desa: Asahan Kecamatan: Jabung  
Sowing time: Oct. 12 '79 Variety: Local one  
Applied chemicals: Diazinon 60 EC  
Concentration and dosis: 2 cc/l, 500 l/Ha  
Applied period: (A) 30 days after sowing, for leaf eating insects  
(B) 55 days after sowing, for lima-bean pod borer  
(C) 65 and 80 days after sowing, for bugs and etc.  
Treatment: No. 1. Check (No spraying)  
No. 2. Spraying once, (B)  
No. 3. Spraying thrice, (B) and (C)  
No. 4. Spraying four times, (A), (B) and (C)

Results obtained are as follows:

No.	Spraying period (days after sowing)	lima-bean pod borer damaged pod (%)	yield (Kg/100m <sup>2</sup> )
1.	-- -- -- --	23.2	1.1
2.	-- 55 -- --	11.5	1.1
3.	-- 55 65 80	10.8	1.4
4.	30 55 65 80	7.7	1.6

1. There were significant differences between check (No. 1.) and spraying group (Nos. 2-4) in the percentage of damaged pod of lima-bean pod borer. (No. 1. < Nos. 2 - 4)
2. The ranking of yield was (No. 1. = No. 2. < No. 3. < No. 4.), but there were no significant differences between above treatment in yield.
3. There was no correlation between damaged pod of lima-bean pod borer and yield. It seems to be recognized that some factors influenced on a yield except an occurrence of lima-bean pod borer.

Analysis of variance:

Damaged pod of	Factor	d.f.	s.s.	Variance	F-value
lima-bean pod borer	Total	15	1,248.90		
	Block	3	242.57	80.86	1.69
	Treat.	3	550.08	185.03	3.65
	B.G. (No.1. : Nos. 2 - 4)	1	522.06	522.06	10.24**
	W.G. (Nos. 2 - 4)	2	280.02	140.01	2.76
	Error	9	456.25	50.69	

報告 7 ON A RESULT FOR CONTROLLING DOWNY MILDEW ON MAIZE (DEC. 1979)

The outline of a result of a trial on the downy mildew control at Way Jepara in Lampung Province 1979, is shown as follows:

1. Design

Split plot, Block-3, 1 plot - 8x6m = 48 m<sup>2</sup>

Main plot; variety, V<sub>1</sub>-Metro, V<sub>2</sub>-Harapan Baru.

Sub plot ; Sowing time, T<sub>1</sub>: Apr. 5, '79, T<sub>2</sub>: Apr. 20, '79, T<sub>3</sub>: May 5, '79  
(tanaman tanggal

Ridomil Seed Dressing

R<sub>0</sub> - no seed dressing,

R<sub>1</sub> - seed dressing 2 gr/kg seed,

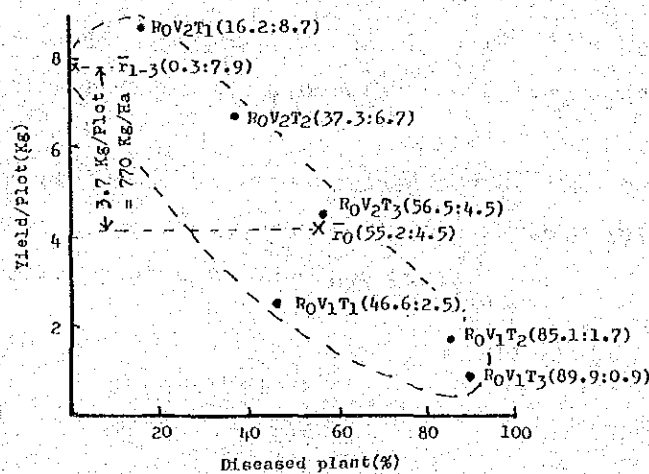
R<sub>2</sub> - 4 gr/kg, R<sub>3</sub> - 6 gr/kg.

2. Result (arranged on an average)

Percentage of diseased plant and (yield kg/plot)

	V 1			V 2			F
	T 1	T 2	T 3	T 1	T 2	T 3	
R <sub>0</sub>	56,5% <sup>kg</sup> (4,5)	85,1(1,7)	89,4(0,9)	16,2(8,7)	37,3(6,7)	46,6(2,5)	55,2(4,2)
R <sub>1</sub>	0,0(9,7)	2,6(9,0)	0,2(5,8)	0,0(8,8)	0,4(9,8)	0,0(5,7)	0,5(8,2)
R <sub>2</sub>	0,0(7,7)	0,8(8,5)	0,0(6,0)	0,0(10,3)	0,2(10,2)	0,0(4,3)	0,2(7,9)
R <sub>3</sub>	0,0(3,3)	0,6(8,8)	0,0(10,3)	0,0(8,7)	0,4(10,3)	0,0(5,0)	0,2(7,7)
R <sub>1-3</sub>	0,0(8,6)	1,3(8,8)	0,1(7,4)	0,0(9,3)	0,3(10,1)	0,0(5,0)	0,3(7,9)

3. Retation between percentage of diseased plant and yield.



4. Analysis of Variance (Yield: kg/plot)

Factor	d.f	s.s.	Variance	F-value
Total	7	607.72		
Block	2	2.40	1.20	
Variety	1	28.63	28.63	6.14
Error (I)	2	9.32	4.66	
T.T.	2	235.12	117.56	92.56 <sup>xxx</sup>
Ridomil	3	191.14	63.71	50.17 <sup>xxx</sup>
{RB.G. (R <sub>0</sub> ; R <sub>1-3</sub> )	1	189.28	189.28	149.04 <sup>xxx</sup>
{RW.G. (R <sub>1-3</sub> )	2	1.89	0.93	
TXR	6	21.56	3.59	2.83 <sup>x</sup>
TXRB.G.	2	19.61	9.86	2.76 <sup>xxx</sup> (x 5% (xxx 0.5%)
TXRW.G.	4	1.95	0.49	
VXR	3	34.94	11.65	9.17 <sup>xxx</sup> Sig level
VXRB.G.	1	32.82	32.82	25.84 <sup>xxx</sup>
VXRW.G.	2	2.12	1.06	
VXT	2	16.80	8.40	6.61 <sup>xxx</sup>
VXRXT	6	11.84	1.97	1.55
ERROR (II)	44	55.97	1.27	

5. Conclusion

1. Seed dressing of Ridomil is very effective to a downy mildew on maize.
2. There are no significant differences between 2-4-6 gr seed dressing per 1 kg seed.
3. Yields of seed dressing plots on an average increased 770 kg/ha from a control plot, that is, a price increased 65.450 Rp/ha (77.000 Rp/ha), if a price of maize is 85 Rp/kg (100 Rp/kg) (the chemicals cost is 10.000 Rp/ha in the present time).
4. But in the case of a little occurrence of the downy mildew, it was showed that chemicals cost had been too high.
5. According to a synthetic research of results of various trials, it seems that an effective result is obtained by a smaller quantity of seed dressing.

6. Then it is important to establish a most economic method by trials of the quantity of the seed dressing.

報告 8. ON THE RESULT OF THE FIELD TEST ABOUT VARIETY, FERTILIZER AND SEED DRESSING (RIDOMIL SD 35) FOR DOWNY MILDEW (*Sclerospora maydis*) ON MAIZE

Place: Tegineneng (K.B.S.) Kecamatan: Natar

Design: Split plot design (3 blocks)

(1 plot: 6 x 8 m, hill space: 0.75 x 0.5 m)

Sowing and harvesting time: Jan. 1, '80 - Apr. 20, '80

Treatment: Main plot (Variety)

V<sub>1</sub>: Metro, V<sub>2</sub>: DMR Harapan, V<sub>3</sub>: H<sub>6</sub> (Harapan Baru)

Sub-plot (Fertilizer and Seed dressing with Ridomil SD 35)

F<sub>0</sub>: no fertilizer,

F<sub>1</sub>: 90 Kg N and 60 Kg P<sub>2</sub>O<sub>5</sub>

R<sub>0</sub>: no seed dressing,

R<sub>1</sub>: 0.5 g active ingredient/  
1 Kg seeds

R<sub>2</sub>: 1.0 g active ingredient/1 Kg seeds

Results obtained (mean of 3 blocks) are as follows:

treatment	downy mildew		damaged stem ratio (%) <sup>②</sup>	sterile stem ratio (%)	No. of harvested stems	yield (dry grain) (Kg/31.5m <sup>2</sup> )
	diseased stem ratio (%) <sup>①</sup>					
V <sub>1</sub> F <sub>0</sub> R <sub>0</sub>	52		55	19	50.7	2.5
R <sub>1</sub>	0		3	34	94.3	3.9
R <sub>2</sub>	0		7	37	90.7	4.0
V <sub>1</sub> F <sub>1</sub> R <sub>0</sub>	53		48	13	60.3	3.7
R <sub>1</sub>	0		3	26	109.7	6.8
R <sub>2</sub>	0		3	21	116.3	6.4
V <sub>2</sub> F <sub>0</sub> R <sub>0</sub>	5		6	21	112.7	5.9
R <sub>1</sub>	0		2	25	109.3	6.3
R <sub>2</sub>	0		2	29	101.3	4.9
V <sub>2</sub> F <sub>1</sub> R <sub>0</sub>	6		6	16	111.3	9.2
R <sub>1</sub>	0		1	18	121.7	8.6
R <sub>2</sub>	0		2	25	109.0	7.2
V <sub>3</sub> F <sub>0</sub> R <sub>0</sub>	21		24	15	108.3	5.2
R <sub>1</sub>	0		2	14	140.7	7.9
R <sub>2</sub>	0		2	17	135.0	8.2
V <sub>3</sub> F <sub>1</sub> R <sub>0</sub>	21		21	21	101.7	5.8
R <sub>1</sub>	0		2	20	131.0	9.1
R <sub>2</sub>	0		3	21	127.3	7.5

① at 42 days after sowing

②  $\frac{\{(\text{No. of grown seedlings}) - (\text{No. of stems in harvesting time})\}}{(\text{No. of all stems at a complete one plot})}$

1. The occurrence of downy mildew on maize was controlled completely by seed dressing with Ridomil SD 35 (both 0.5 and 1.0 gram active ingredient per 1 Kg seeds). There were distinct differences among tested varieties in the occurrence of downy mildew on maize. (Metro > H<sub>6</sub> (Harapan baru) > DMR Harapan)
2. The damaged stem ratio in growing period was almost equal the diseased stem ratio by downy midew.
3. A sterile stem ratio was very high and its cause could not analyzed.
4. There were significant differences between R<sub>0</sub> group and R<sub>1-2</sub> group in yield (dry grains), but no significant differences within R<sub>1-2</sub> group.

$$R_0 (1713 \text{ Kg/Ha}) < R_{1-2} (2135 \text{ Kg/Ha})$$

5. In future it is important to decide a minimum effective quantity of seed dressing.

Analysis of variance:

yield (dry grain)	Factor	d.f.	s.s.	Variance	F-value
	Total	53	310.9041		
	Block	2	37.0468	18.5234	1.69
	V	2	82.3826	41.1913	3.76
	V x B	4	43.8574	10.9644	
	F	1	40.8205	40.8205	17.82**
	R	2	26.3988	13.1999	5.76**
	B.G. (R <sub>0</sub> : R <sub>1-2</sub> )	1	21.2535	21.2535	9.28**
	W.G. (R <sub>1-2</sub> )	1	5.1452	5.1452	2.25
	F x R	2	1.3807	0.6904	
	V x R	4	29.9157	7.4789	3.27*
	V x F	2	12.9246	6.4623	2.82
	V x F x R	4	4.5178	1.1295	
	Error	30	68.7060	2.2902	

報告 9. PESTISIDA YANG TERDAFTAR DAN DIIZINKAN DIGUNAKAN  
PADA PADI DAN PALAWIJA (1979,4)

[ イネとパラウィジャ (Secondary crop) に登録許可されている農薬 ]

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[ イネの害虫に対して登録許可されている殺虫剤 ]
2. Insektisida yang terdaftar dan diizinkan digunakan untuk hama pada palawija  
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6. Daftar fungisida (ABC) [ 殺菌剤の A B C 順の表 ]
7. Daftar herbisida (ABC) [ 除草剤の A B C 順の表 ]
8. Daftar yang katalog pestisida [ 農薬のカタログの表 ]
9. Nama dan kediamaan yang kampanye pestisida [ 農薬会社の名と住所 ]

Map yang katalog pestisida

[ 農薬のカタログのファイル ] (内容省略)

I.	Agrocarb	VI-1.	Indargo
II-1.	Alfa Pestisida	VI-2.	Kalatham Corp.
II-2.	Bayer Agrochemical	VI-3.	Pasific Chemical Corp.
II-3.	Damhate Hanburg	VII.	Petrokimia Kayaku
III.	Ciba-Geigy	VIII-1.	Sandoz
IV.	Du pont	VIII-2.	Yunawati
V.	ICI		



1. Insektisida yang terdaftar dan diizinkan  
digunakan untuk hama pada padi  
〔イネの病害に対して登録許可されている殺虫剤〕

P A D I (イネ)

Penggerak batang:	Fomadol 50 EC
<u>Tryporyza innotata</u>	Furadan 3 G
<u>Tryporya incertulas</u>	Axodrin 15 WSC
<u>Chilo suppressalis</u>	Ekalux 25 EC
<u>Sesamia inferens</u>	Imitrion 50 WP
〔メイチュウ〕	Ofunack 40 EC
	Lirocide
	Basudin 60 EC
	Basudin 10 G
	Cytrolane 2 G
	Ekamet 5 G
	Elsan 60 EC
	Eumulthion TM
	Karphos 25 EC
	Karphes 50 EC
	Mipzinon 6/4 G
	Reldan 24 EC
	Agrothion 50 EC
	Bayrusil 250 EC (T)
	Diazinon 60 EC
	Diazinon 10 G
	Dimecron 50 SCW
	Dursban 20 EC
	Hostathion 40 EC (T)
	Padan 10 G (T)
	Padan 50 SP (T)
	Sumithion 50 EC
	Surecide 25 EC
	Sumithion 2 D
	Tsumacide 30 EC
	Ekalux 5 G

Wereng coklat: Nilaparvata

lugens

[トビイロウンカ]

Furadan 3 G

Azodrin 15 WSC

Initriion 50 WP

Ofunack 40 EC

Sevin 50 WP

Trithion 4 E

Bassa 50 EC

Basudin 60 EC

Baycarb 500 EC

Ekamet 5 G

Elsan 60 EC

Mipcin 50 WP

Mipcin 4 G

Mipcinon 6/4 G

Reldan 24 EC

Sevin 5 G

Diasinon 60 EC

Dursban 20 EC

Nogos 50 EC

Sumithion 50 EC

Sevin 5 D

Sevin 85 SP

Sevin 2,5 D

Etrofolan 50 WP

Hopcin 50 EC

Agrothion 50 EC

Dicarbam 85 SP

Tsumacide 30 EC

Sevin 5 G

Sumibas 75 EC

Wereg hijau: Nephotetix

impicticeps

[ツマグロヨコバイ]

Furadan 3 G

Basudin 60 EC

Diazinon 60 EC

Sevin 85 SP

Ganjur: <u>Orseolia oryzae</u>	Furadan 3 G
[イネシントメタマバエ]	Ekalux 5 G
	Basudin 10 G
	Cytrolane 2 G
	Surecide 25 EC
	Tsumacide 30 EC
Walang sengit: <u>Leptocorixa</u>	Ofunack 40 EC
<u>acuta</u>	Basudin 60 EC
[クモヘリカメムシ]	Eumulthion TM
	Elsan 60 EC
	Diazinon 60 EC
	Dimecron 50 SCW
	Sevin 85 SP
	Dicarbam 85 SP
Hama putih palsu:	Azodrin 15 WSC
<u>Cnaphalocrosis medinalis</u>	Ekalux 25 EC
[コブノメイガ]	
Kepinding tanah: <u>Scotinophora</u>	Dimecron 50 SCW
<u>vermiculata</u>	Padan 50 SP (T)
[クロカメムシ]	Sevin 85 SP
Kepik hijau: <u>Nezara</u>	Sevin 85 SP
<u>viridula</u>	
[アオカメムシ]	
PADI GOGO [リグトウ]	
Hama lundi: <u>Halotrichia</u>	Furadan 3 G
<u>haller</u>	
Walang sangit: <u>Leptocorixa</u>	Thiodan 35 EC (T)
<u>acuta</u>	
[クモヘリカメムシ]	

2. Insektisida yang terdaftar dan diizinkan digunakan untuk hama pada palowija  
 [パラウイジャの害虫に対して登録許可されている殺虫剤]

JACUNG [トウモロコシ]

Perusak daun: [葉の害虫]

- |   |   |
|---|---|
| a. <u>Spodoptera mauritia</u><br>[シロナヨトウ] | Sevin 50 WP<br>Basudin 60 EC<br>Karpfos 50 EC<br>Surecide 25 EC<br>Dursban 20 EC<br>Sevin 85 SP<br>Hostathion 40 EC (T)<br>Asodrin 15 WSC |
| b. <u>Prodenia litura</u><br>[ハスモンヨトウ]    | Hostathion 40 EC (T)<br>Azodrin 15 WSC  |
| c. <u>Lamprosema indica</u><br>[ミスジノメイガ]  | Hostathion 40 EC (T)<br>Azodrin 15 WSC  |

Penggerek tabang: [メイチュウ]

- |  |  |
|--|--|
| a. <u>Sesamia inferens</u><br>[ダイメイチュウ]  | Hostathion 40 EC (T)<br>Azodrin 15 WSC |
| b. <u>Pyrausta nubilalis</u><br>[アワノメイガ] | Hostathion 40 EC (T)<br>Azodrin 15 WSC |

Hama lundi [甲虫]

Cytrolane 2 G

Lalat bibit: Atherigona

spp

[イネクキハナバエ]

Sevin 50 WP  
Karpfos 50 EC  
Dursban 20 EC  
Surecide 25 EC  
Hostathion 40 EC (T)

Pengisap polong: Fomadol 50 EC  
Riptortus linearis Azodrin 15 WSC  
〔ホソヘリカメムシ〕

KACANG HIJAU [リョクトウ]

Penggerak polong: Etiella Fomadol 50 EC  
zinckenella Karphos 50 EC  
〔シロイチモジマダラメイガ〕 Sumithion 50 EC  
Surecide 25 EC  
Azodrin 15 WSC

Perusak daun: [葉の害虫]

a. Phaenodonia inclusa Fomadol 50 EC  
Acodrin 15 WSC

b. Prodenia litura Fomadol 50 EC  
〔ハスモンヨトウ〕 Azodrin 15 WSC

c. Lamprosema indica Fomadol 50 EC  
〔ミスジノメイガ〕 Azodrin 15 WSC

d. Plusia chalcites Fomadol 50 EC  
Azodrin 15 WSC

Hama: Aphis spp [アブラムシ] Dursban 155 E

Lalat: Agromyza spp Azodrin 15 WSC  
〔マメモグリバエ〕 Dursban 155 E

KACANG TANAH [ナンキンマメ]

Perusak daun: [葉の害虫]

a. Stomopteryx Sevin 2,5 D  
subsecivella Sevin 5 D  
Sevin 50 WP  
Temik 10 G  
Sevin 85 SP

b. Empoasca spp

Sevin 2,5 D  
Sevin 50 WP  
Temik 10 G  
Supracide 40 EC (T)  
Sevin 85 SP

c. Plusia chalcites

Sevin 85 SP  
Surecide 25 EC

Ulat: Agrotis spp

Dursban 20 EC

[ネキリムシ]

KEDELE [ダイズ]

Perusak daun: [葉の害虫]

a. Phaedonia inclusa

Sevin 2,5 D  
Sevin 5 D  
Sevin 50 WP  
Elsan 60 EC  
Karpfos 25 EC  
Padan 50 SP (T)  
Supracide 40 EC (T)  
Fomadol 50 EC  
Lirocide  
Azodrin 15 WSC  
Ofunack 40 EC  
Sevidan 70 WP  
Ambush 2  
Basudin 60 EC  
Karpfos 50 EC  
Bayrusil 250 EC (T)  
Diazinon 60 EC  
Dursban 20 EC  
Gardona 24 EC (T)  
Hostathion 40 EC (T)  
Sevin 85 SP  
Sevin 4 Oil (T)  
Sumithion 50 EC  
Surecide 25 EC  
Thiodan 35 EC (T)

b. Prodenia litura  
〔ハスモンヨトウ〕

Dekasulfan 350 EC (T)  
Agrothion 50 EC

Fomadol 50 EC  
Liroid

Azodrin 15 WSC

Ofunack 40 EC

Sevidan 70 WP

Ambush 2

Basudin 60 EC

Karphos 50 EC

Diazinon 60 EC

Dursban 20 EC

Gardona 24 EC (T)

Hostathion 40 EC (T)

Sevin 85 SP

Savin 4 Oil (T)

Sumithion 50 EC

Surecide 25 EC

Thiodan 35 EC (T)

Dakasulfan 350 EC (T)

Agrothion 50 EC

Fomadol 50 EC

Liroid

Azodrin 15 WSC

Ofunack 40 EC

Sevidan 70 WP

Ambush 2

Basudin 60 EC

Karphos 50 EC

Bayrusil 250 EC (T)

Diazinon 60 EC

Dursban 20 EC

Gardona 24 EC (T)

Hostathion 40 EC (T)

Sevin 85 SP

Sevin 4 Oil (T)

Sumithion 50 EC

c. Lamprosema indica  
〔ミスジノメイガ〕

d. Plusia chalcites

Surecide 25 EC  
Thiodan 35 EC (T)  
Dekasulfen 350 EC (T)

Fomadol 50 EC  
Lirocide  
Azodrin 15 WSC  
Ofunack 40 EC  
Sevidan 70 WP  
Ambush 2

Basudin 60 EC  
Karphos 50 EC  
Bayrusil 250 EC (T)  
Diazinon 60 EC  
Dursban 20 EC  
Gardona 24 EC (T)  
Hostathion 40 EC (T)  
Sevin 85 SP  
Sevin 4 Oil (T)  
Sumithion 50 EC  
Surecide 25 EC  
Thiodan 35 EC (T)  
Dekasulfan 350 EC (T)  
Agrothion 50 EC

e. Longitarsus suturulinus

Penggerak polong: Etiella zinckenella

[シロイチモジマダラメイガ]

Dekasulfan 350 EC (T)

Fomadol 50 EC  
Lirocide  
Azodrin 15 WSC  
Ofunack 40 EC  
Sevidan 70 WP  
Sevin 2.5 D  
Sevin 5 D  
Sevin 50 WP  
Sevithion 50 WP



Elsan 60 EC  
Karpfos 50 EC  
Bayrusil 250 EC (T)  
Dursban 20 EC  
Gardona 24 EC (T)  
Hostathion 40 EC (T)  
Padan 50 SP (T)  
Sevin 85 SP  
Surecide 25 EC  
Thiodan 35 EC (T)  
Dekasulfan 350 EC (T)  
Sumithion 50 EC

Pengisap polong: Riptortus

linearis

[ホソヘリカメムシ]

Fomadol 50 EC  
Liocide  
Azodrin 15 WSC  
Ofunack 40 EC  
Dursban 20 EC  
Gardona 24 EC (T)  
Surecide 25 EC  
Dekasulfan 350 EC (T)

Kepik hijau: Nezara

viridula

[アオカメムシ]

Dursban 20 EC  
Surecide 25 EC

Lalat bibit: Agromyza spp

[マメモグリバエ]

Fomadol 50 EC  
Liocide  
Azodrin 15 WSC  
Ofunack 40 EC  
Sevidan 70 WP  
Sevin 2.5 D  
Sevithion 50 WP  
Gardona 24 EC (T)  
Hostathion 40 EC (T)  
Savin 4 Oil (T)  
Sumithion 50 EC  
Surecide 25 EC  
Thiodan 35 EC (T)

3. Fungisida yang terdaftar dan diizinkan digunakan  
 untuk penyakit pada padi dan palawija  
 [イネとパラウィジャの病害に対して登録許可されている殺菌剤]

PADI [イネ]

Penyakit busuk leher:

Piricularia oryzae

Hinosan 50 EC

[いもち]

Penyakit becak daun:

Cercospora oryzae

Benlate

[すじ葉枯病]

JAGUNG [トウモロコシ]

Penyakit bulai: Sclero-

Terrazole 25 EC

rospore maydis

Ricomil 2 G

[べと病]

KACANG HIJAU [リョクトウ]

Penyakit kudis: Elsinoe

Benlate

lwatae

[そう痲病]

KACANG TANAH [ナンキンマメ]

Penyakit becak daun:

a. Cercospora arachidicola

Delsone M 200

[褐斑病]

Brestan 60

Cupravit OB 21

Dithane M45 80 WP

Manzate D

Antracel 70 WP

b. Cercospora personata

Antracol 70 WP

[黒渋病]

Benlate

Cupravit OB 21

Dithane M45 80 WP

Manzate D

Brestan 60

4. Herbisida yang terdaftar dan diizinkan digunakan  
untuk gluma pada padi dan palawija

[ イネとパラウイジャの雑草に対して登録許可されている除草剤 ]

PADI [ イネ ]

Gulma golongan berdaun lebar	Esteron 4.5 T Tok Granular Harcros MCPA Rifit 500 EC Ronstar 25 EC Rifit 3 G Agroxone-4 Rilof H. 5 G Rilof H. 500 EC Basagran Basagran D Ronstar 2 G U46 Bi
Gulma golongan berdaun lebar pada padi pasang surut	Gremoxone * Para-Col *
Gulma golongan rumput	Montrose propanil 3 EC Rilof H. 5 G Rilof H 500 EC U46 Bi Stam F-34 Tok Granular DMA-6 Saturn D Rifit 500 EC Rifit 3 G
Gulma golongan rumput pada padi pasang surut	Gramoxone * Para-Col
Gulma golongan teki	Montrose propanil 3 EC Rilof H. 5 G Rilof H 500 EC

U46 Bi

Basagan

Basagan D

Rifit 500 EC

Rifit 3 G

Ronstar 2 G

JAGUNG [トウモロコシ]

Gulma golongan berdaun  
lebar

Agroxone-4

Gulma golongan rumput

Gesaprim 80 WP

### 5. Daftar Insektisida (ABC)

No. (1)	Nama Insektisida (Jenis tanaman) (2)	Nama bahan aktif (Kadarnya dan Bentuk) (3)	Nama pemegang izin (4)
I-1	Agrothion 50 EC (padi, kedele)	fenitrotion 500 g/l (EC)	ICI
I-2	Ambush 2 (kedele)		ICI
I-3	Azodrin 15 WSC (padi, kedele, k. tanah, jagung)		Shell
I-4	Bassa 50 EC (padi)	(BPMC)	Petrokimia Kayaku
I-5	Basudin 60 EC (padi, kedele, jagung)	diazinon	Ciba-Geigy
I-6	Basudin 10 G (padi)	diazinon	Ciba-Geigy
I-7	Baycarb 500 EC (padi)		
I-8	Bayrusil 250 EC (padi, kedele)	kuinalfos 268 g/l	Bayer
I-9	Cytrolane 2 G (padi, jagung)		Agro Chemical
I-10	Dekasulfan 350 EC (kedele)	endosufan 350 g/l	Kalatham
I-11	Diazinon 60 EC (padi, kedele)	diazinon 641 g/l	Petrokimia Kayaku
I-12	Diazinon 10 G (padi)	diazinon 11.3 %	Petrokimia Kayaku

(1)	(2)	(3)	(4)
I-13	Dicarbam 85 SP (padi)	karbaril 85 %	ICI
I-14	Dimecron 50 SCW (padi)	fosfamidon 543.5 g/l	Giba-Geigy
I-15	Dursban 155 E (k. hijau)	klorpirifos	Pasific Chemicals
I-16	Dursban 20 EC (padi, kedele, k. yanah, k. hijau, jagung)	klorpirifos 200 g/l	Pasific Chemicals
I-17	Ekamet 5 G (padi)		
I-18	Ekalux 25 EC (padi)	quinaliphos	Sandoz
I-19	Ekalux 5 G (padi)	quinaliphos	Sandoz
I-20	Elsan 60 EC (padi)	(PAP, phenthoate)	Alfa Pesticide
I-21	Etrofolam 50 WP (padi)		
I-22	Eumulthion TM (padi)		Alfa Pest.
I-23	Fomadol 50 EC (padi, kedele k. hijau)	malation 600 g/l	Demate, Hanburg
I-24	Furadan 3 G (padi)		Indargo
I-25	Gardona 24 EC (kedele)	tetraklorvinfos 240 g/l	Shell

(1)	(2)	(3)	(4)
I-26	Hopcin 50 EC (padi)	BPMC 485 g/l	Yunawati
I-27	Hostathion 40 EC (padi, kedele, jagung)	triazofos 40 %	Yunawati
I-28	Imitrion 50 WP (padi)		ICI
I-29	Karphos 25 EC (padi, kedele)	isoxation	Indargo
I-30	Karphos 50 EC (padi, kedele, k. hijau, jagung)	isozation	Indargo
I-31	Lirocide (padi, kedele)	fenitrotion 650 g/l	Demhate Hamburg
I-32	Mipcin 50 WP (padi)	MIPC	Petrokimia Kayaku
I-33	Mipcin 4 G	MIPC	Petrokimia Kayaku
I-34	Mipzinon 6/4 G (padi)	diazinon 6 % MIPC 4 %	Petrokimia Kayaku
I-35	Nogos 50 EC (padi)	diklorvos 625 g/l	Ciba-Geigy
I-36	Ofnack 40 EC (padi, kedele)	pyridaphenthion	
I-37	Padan 50 SP (padi, kedele)	kartap hidroklorida 59% EC	Nichimen
I-38	Padan 10 G (padi)	kartap hidroklorida 10% (G)	Nichimen
I-39	Reldan 24 EC (padi)		

(1)	(2)	(3)	(4)
I-40	Sevidan 70 WP (kedele)	karbaril	Agrocarb
I-41	Sevin 50 WP (padi, kedele, k. tanah, jagung)	karbaril	Agrocarb
I-42	Sevin 85 SP (padi, kedele, jagung)	Karbaril 85 % (SP)	Agrocarb
I-43	Sevin 4 oil (kedele)	karbaril	Agrocarb
I-44	Sevin 2.5 D (padi, kedele, k. tanah)	karbaril	Agrocarb
I-45	Sevin 5 D (padi)	karbaril	Agrocarb
I-46	Sevin 5 G (padi)	karbaril	Agrocarb
I-47	Sevithion 50 WP (kedele)		
I-48	Sumibas 75 EC (padi)	fenitrothion 45±2,25 % BPMC 30±1.5 %	Indargo
I-49	Sumithion 50 EC (padi, kedele, k. hijau)	fenitrotion 555±28 g/l	Indargo
I-50	Sumithion 2 D (padi)	fenitrotion 2±0.1 %	Indargo
I-51	Supracide 40 EC (k. tanah)	meditation 420 g/l (EC)	Ciba-Geigy



(1)	(2)	(3)	(4)
I-52	Surecide 25 EC (padi, kedele, k. hijau, k. tanah, jagung)	sianofenfos 250±12.5 g/l	Indargo
I-53	Surecide 40 EC (kedele)	sianofenfos	Indargo
I-54	Temik 10 G (k. tanah)		
I-55	Thiodan 35 EC (kedele)	endosulfan 350 g/l (EC)	Yanawati
I-56	Trithion 4E (padi)	carbophenothion 4 lbs./gal. or 47.9 %	ICI
I-57	Tsumacide 30 EC	(MIMC)	Indargo

6. Daftar Fungisida (ABC)

No.	Nama Fungisida	Nama bahan aktif (Kadarnya dan Bentuk)	Nama pemegang izin
F-1	Antracol 70 WP	propineb, (antracol) (WP)	PT. Bayer Agrochemicals
F-2	Benlate	benomil 50 % (WP)	Perwakilan Du Pont Far East Inc.
F-3	Brestan 60	fentin asetat 60 % maneb 17.5 %	PT. Yunawati; Cabang Pulo Mas
F-4	Cupravit OB 21	tembaga oksiklorida (WP) 50 %	PT. Bayer Agrochemicals
F-5	Delsene M 200	carbendazin 6.2 % mancozeb 73.8 %	Perwakilan Du Pont
F-6	Dithane M 45 80 WP	mancozeb 80 % (WP)	Perwakilan Rohm & Haas Asia Inc.
F-7	Hinosan 50 EC	EDDP (EC)	
F-8	Manzate D	maneb 80 % (WP)	Perwakilan Du Pont Far East Inc.
F-9	Ridomil 2G		Perwakilan Ciba-Geigy
F-10	Terrazol 25 EC		

7. Daftar Herbisida (ABC)

No.	Nama Herbisida (Jenis tanaman)	Nama bahan aktif (Kadarnya dan Bentuk)	Nama pemegang izin
H-1	Agroxone 4 (padi, jagung)	Kalium MCPA	ICI
H-2	Basagran Basagran D (padi)	bentazon	
H-3	DMA-6 (padi)	2,4-D dimetil amina	Daw
H-4	Esteron 4.5T (padi)		
H-5	Gesaprim 80 WP (jagung)	atrazin	Ciba-Geigy
H-6	Gramoxone (padi)	parakaut diklorida	ICI
H-7	Harcros MCPA (padi)		
H-8	Montrose propanil DCPA (padi) 3 EC		
H-9	Para-Col (padi)	parakaut diclorida, diuron	
H-10	Rifit 3G Rifit 500 EC (padi)		
H-11	Rilof H 5G Rilof H 500 EC (padi)		

No.	Nama Herbisida	Nama bahan aktif (Kadarnya dan Bentuk)	Nama pemegang izin
H-12	Ronster 25 EC Ronster 2 G (padi)	oxadiazon	
H-13	Saturn D (padi)		Petrokimia Kayaku
H-14	Stam F-34 (padi)	propanil	
H-15	Tok G (padi)		
H-16	U 46 Bi (padi)		

8. List of Pesticide Catalog  
(in order of company file)

I. Agrocab

I-9	Cytrolene 2G	I-45	Sevin 5D
I-18	Ekalux 25	I-54	Temik 10G
I-40	Sevidan 70 WP	F-2	Benlate
I-42	Sevin 85S	F-8	Manzate

II-1 Alfa Pestisida

I-20	Elsan 60 EC	I-22	Emulthion
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II-2 Bayer Agrochemical

F-1	Antracol	F-7	Hinosan
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II-3 Demhate Hanburg

I-23	Fomadol 50 EC	I-31	Lirocide
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III Ciba-Geigy

I-5	Basudin 60 EC	I-51	Supracide
I-6	Basudin 10G	F-9	Ridomil
I-14	Dimecron 50SCW	H-5	Gesaprim
I-35	Nogos 50EC	H-11	Rilof

IV Du Pont

F-2	Benlate	F-8	Manzate D
F-5	Delsene MX-200		

V ICI

I-1	Agrothion 50 EC	I-56	Trithion 4E
I-2	Ambush 2EC	H-1	Agroxone-4
I-13	Dicarbam 85SP	H-6	Gramoxone
I-28	Imitrion 50 WP		

VI-1 Indargo

I-29	Karphos 25 EC	I-49	Sumithion 50 EC
I-48	Sumibas	I-57	Tsumacide
		F-6	Dithane M45

VI-2 Kalatham Corp.

I-10	Dekasulfan 350EC		
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VI-3 Pasific Chemical (Dow)

I-16 Dursban 20EC

VII Petrokimia Kayaku

I-11 Diazinon 60EC

I-33 Mipcin 4G

I-12 Diazinon 10G

I-34 Mipzinon 6/4G

I-32 Mipcin 50WP

H-13 Saturn D

VIII-1 Sandoz

I-18 Ekalux 25EC

I-19 Ekalux 5G

VIII-2 Yunawati

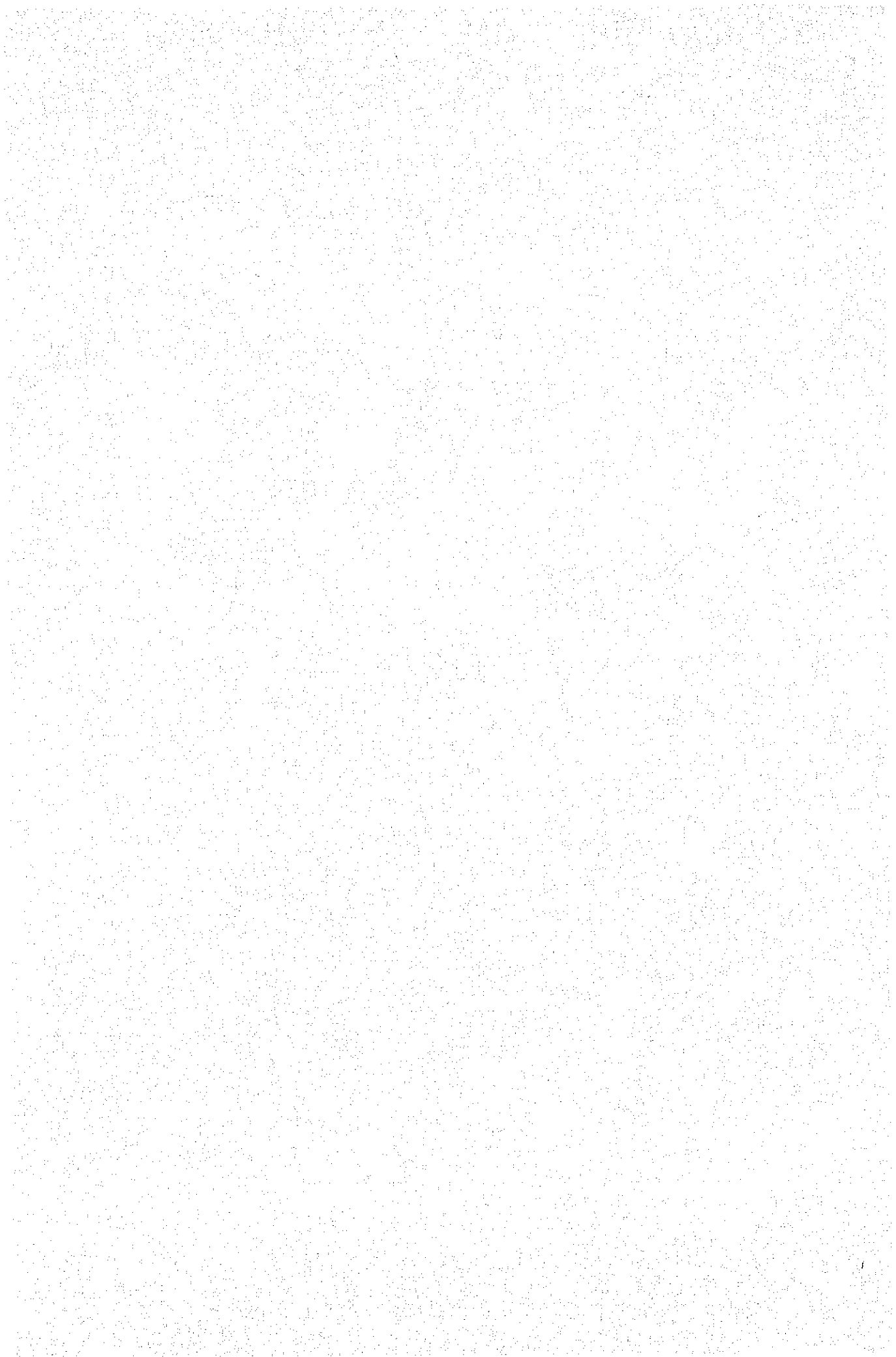
I-26 Hopcin 50EC

I-27 Hostathion 40EC

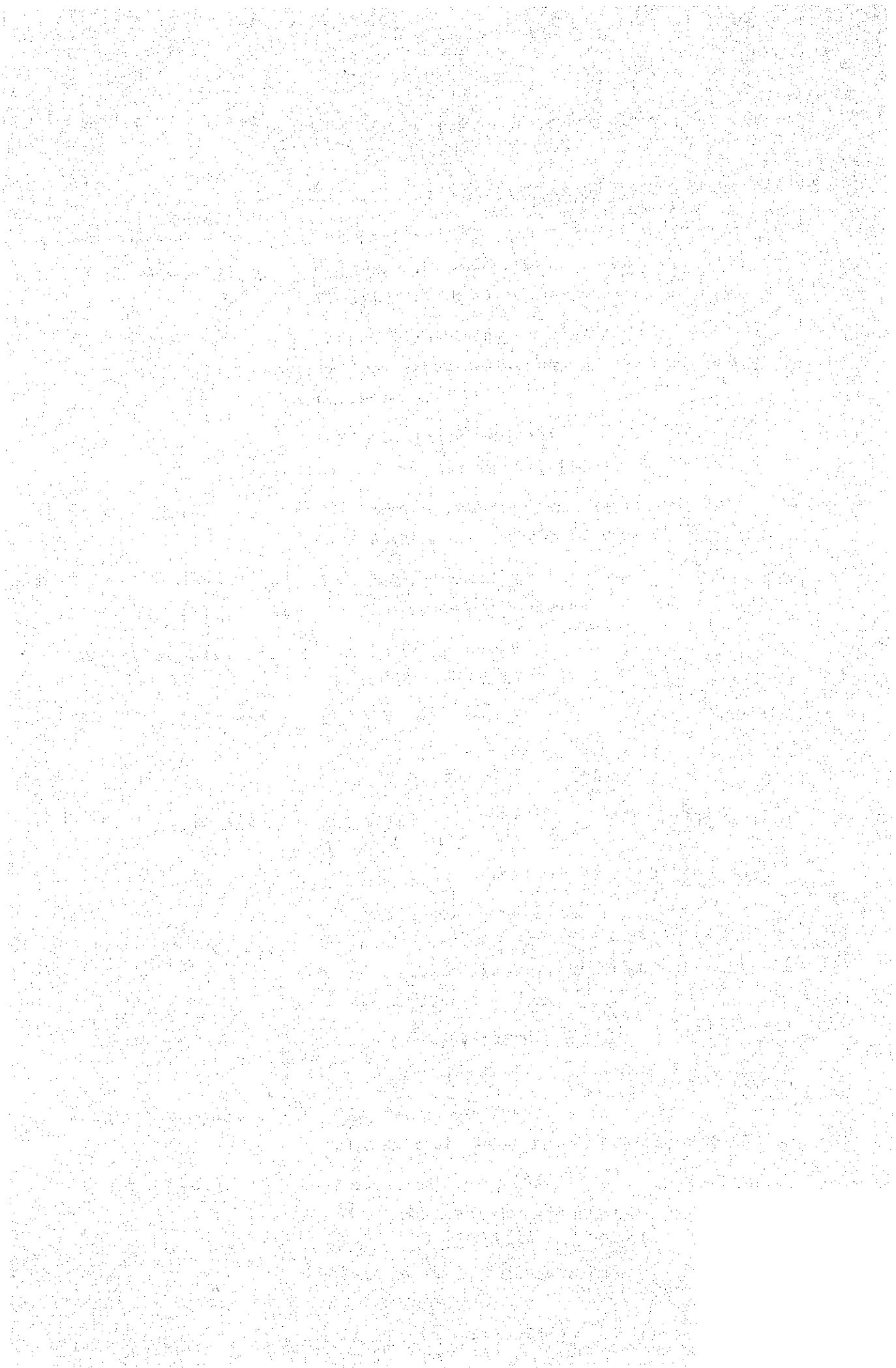
I-55 Thiodan

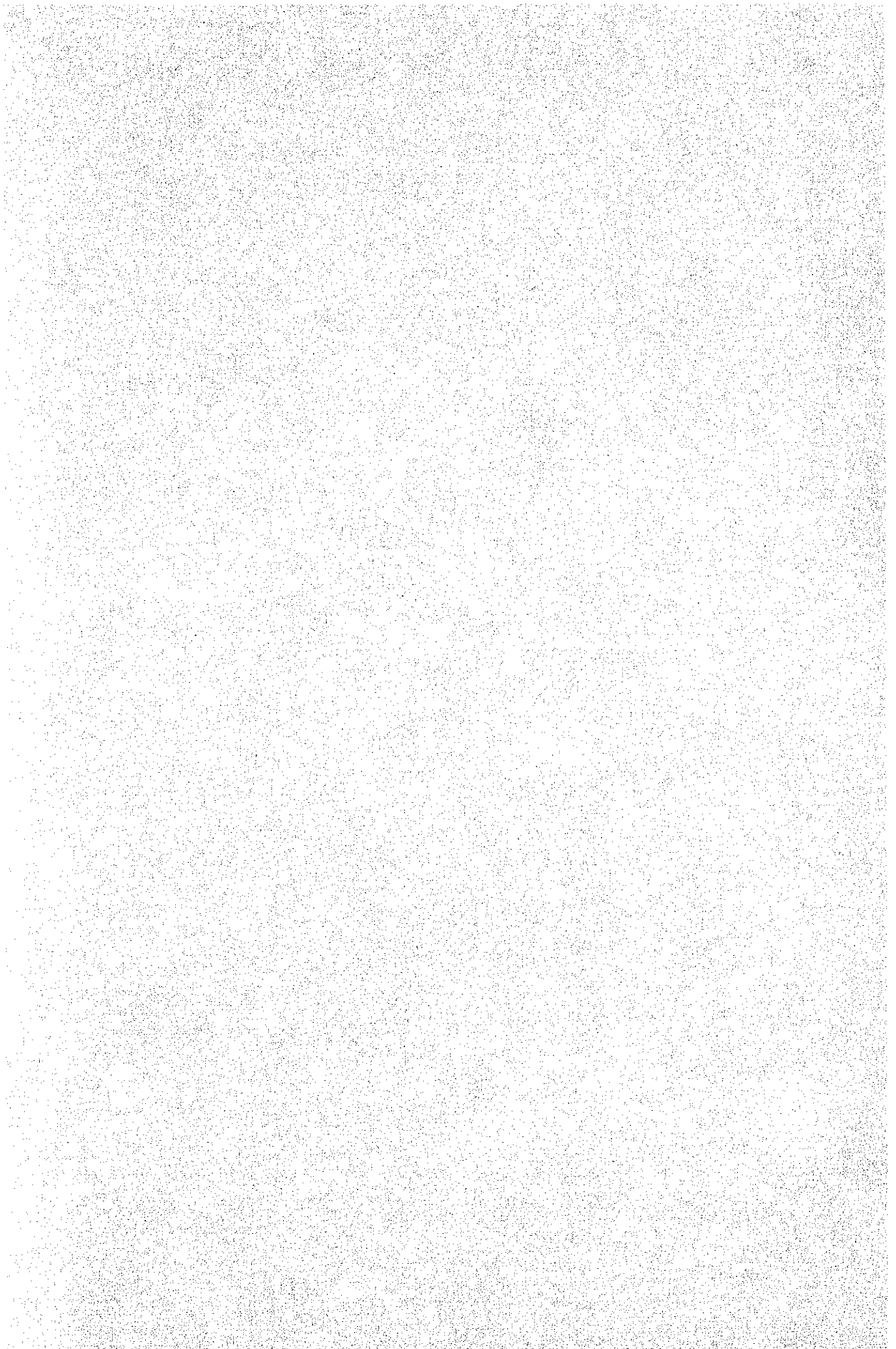
9. Nama dan Kediaman Yang Kampanye Pestisida  
( 農薬会社の名前と住所 )

No.	Abbrev.	Name and Address of Company
I.	Agrocarb	P.T. Agrocarb Indonesia Jl. Kebon Sirih No. 72, Jakarta
II-1	Alfa	P.T. Alfa Pestisida Industri Jl. Raya Mundu Pesisir No. 23-25, Blok Ksranganya, Cirebon
II-2	Bayer	P.T. Bayer Agrochemicals Jl. Cikini Raya No. 97, Jakarta
II-3	Demhate	P.T. Demhate Hamburg Corp. (Agrochemicals) Kali Besar Barat No. 33, Jakarta
II-4	Indargo	P.T. Indargo Inc. Jl. Tanjung No. 31, Jakarta
II-5	Kalatham	P.T. Kalatham Corporation Jl. Raden Saleh 1/15 B, Jakarta
II-6	Pacific	P.T. Pacific Chemicals Indonesia (Dow Chemical Pacific Ltd.) 12/F, Wisma Kosgoro, Jl. Thamrin No. 53, Jakarta
III.	Ciba-Geigy	Perwakilan Ciba-Geigy Ltd., Switzerland, Agricul- tural Division Jl. Sultan Hasanuddin No. 73, Blok K.V., Kebayoran Baru, Jakarta
IV.	Du Pont	Perwakilan Du Pont Far East Inc. Hotel Borobudur Intercontinental, Jl. Lapangan Banteng Selatan, Jakarta
V.	ICI	P.T. ICT Pestisida Indonesia Jl. H. Fachruddin No. 3, Jakarta
VI.	Petrokimia	P.T. Petrokimia Kayaku Jl J.A. Yani, Kotak pos 7, Gresik, Java Timur
VII-1	Sandoz	Perwakilan Sandoz Ltd. Jl. Tanah Abang Dua 19, Jakarta
VII-2	Yunawati	P.T. Yunawati Cabang Pulo Mas Jl. J.A. Yani, Pulo Mas, Jakarta









JUDAS