

د. أحمد صالح صالح\*      ا. د. إسماعيل عبد العزيز\*\*

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*Propineb - Copper Oxychloride + Cymoxanil + Oxadixyl - Thiocalm hydrogen Oxalate - Propanocarb-Copper Hydroxide -Triadimenol - Maneb - Penconazol - Mancozeb - Fenamiphos.: Abemectrin - Fenpropathrin - Methamidophos - Chlorpyrifos DDVP - Chlorfluazaron - Ca -rbosulfan - Cypermethrin - Dimethoate - Imidacloprid - Cyhalothrin.*

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**Procedures**

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**Results and Discussion**

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Propineb - Copper Oxychloride + Cymoxanil + Oxadixyl - Thiocalm  
hydrogen Oxalate - Propanocarb-Copper Hydroxide -Triadimenol - Maneb -  
Penconazol - Mancozeb - Fenamiphos.

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Abemectrin - Fenpropathrin - Methamidophos - Chlorpyrifos - DDVP -  
Chlorfluazaron - Carbosulfan - Cypermethrin - Dimethoate - Imidacloprid -  
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## Tomato

No.	Common name	Commercial name	No.( Frequency) of Spraying	Rate ml. g./Donume /	% Amount of Consumption %	Remarks
1-	Mancozeb	Manzidan Wp 80	11-36	300-1000	15.1	Fungi.
2-	Fenprothrin	Smash EC 100	1-80	50-360	14.13	Insect.
3-	Methamidophos	Tamaron, Prodex	20-2	300-50	13.03	Insect.
4-	Cypermethrin	Cymbush EC 100	5-36	100-500	10.69	Insect.
5-	Copper hydroxide	Kocide	2-12	250-600	9.2	Fungi.
6-	Methylbromide	Methyl Bromide	1	50.000	6.6	Insect. +Fungi+ Nema.
7-	Cyhalothrin	Karate EC 50	1-80	80-360	6.68	Insect.
8-	Triadimenol	Bayfidan EC 250	2-8	50-400	4.00	Fungi.
9-	Copper Oxychloride +Cymoxanil+ Oxadixyl	Sandocur Wp	1-8	70-400	3.8	Fungi.
10-	Thiocalm hydrogen oxalate	Evisect	1-16	30-400	3.8	Fungi.
11-	Methomyl	Lanate	7-36	100-250	2.96	Insect.
12-	Endosulfan	Thionex EC 350	1-36	100-500	2.9	Insect.
13-	Maneb	Manebagan Wp 80	3-16	60.350	2.5	Fungi.
14-	Abemectrin	Vertemic EC 18	1-80	80-360	1.50	Insect.
15-	Bifenthrin	Talstar	12	100	1.	Insec+A ca.
16-	Myclobutanil	Systan EC 125	8	100	1.22	Fungi.
17-	Penconazole	Ofir EC 100	1-20	100-500	1.02	Fungi.
18-	Propineb	Antracol Wp 70	2-12	80-400	0.8	Fungi.
19-	Clofentezine +Chlorothalonil	Apollo Sc500	1-12	50-300	0.76	Insect.
20-	Propanocarb Hd	Dynone SI722	1-16	100-360	0.65	Fungi.
21-	Vinclozolin	Ronilan Wp 50	3	100	0.6	Fungi.
22-	Iprodione	Rovral Wp50	3-36	80-300	0.5	Fungi.

**Other Pesticides:** Imidacloprid -Amitraz -Fenarimol -Cypermethrin - Sulfer W.p - Azinphos-Methyl - Copper Hydroxide- Captan - Cymoxanil+ Mancozeb- Chlorfluazaron – Benomyl- Fenvalerate- Fenamiphos- Bromuconazole- Trichoderma Harzianum- Amitraz-

Fenpyroximate- Quinomethionate and Triadimenol- Carbosulfan- Dimethoate -Cyfluthrin  
 Phosethyl A1- Oxydemeton- Pyrazophos Fenazaquine- Chlorothalonil- Mancozeb  
 -Vinclozolin- Bromopropylate-

### Egg plant

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. g./Donume	% Amount of Consumption	Remarks
1-	Mancozeb	Manzidan	12-2	500-100	27.286	Fungi
2-	Methomyl	Lanete	3	60	20.47	Insect.
3-	Methyl bromide	Methyl bromide	1	100,000	12-8	Nema.+Fung.
4-	Endosulfan	Thionex Ec350	12-2	350-1000	12.55	Insect.
5-	Copper Oxychloride +Cymoxanil+Oxadixyl	Sandocur Wp	20	400	9.34	Fungi.
6-	Fenprothrin	Smash Ec 100	8-4	300-80	7.98	Insect.
7-	Cypermethrin	Cymbush	2	200	4.69	Insect.

**Other Pesticides:** Cyhalothrin – Amitraz – Triadimenol – Chlorpyrifos – Carbosulfan – Penconazole – Clofentezine – Azocyclotin – Abemectrin -Dichlofluanid – Benfuracarb – Maneb – Sulfar - Benomyl

### Pepper

No.	Common name	Commercial name	No. of Spraying	Rate ml. G./Donume	% Amount of Consumption	Remarks
1-	Endosulfan	Thionex Ec 350	12-8	450-250	18.5633	Insect.
2-	Mancozeb	Manzidan Wp 80	16-4	300-150	18.0846	Fungi.
3-	Penconazole	Ofir Ec 100	12-2	200-80	13.19	Fungi.
4-	Quinomethionate	Morestan	3	200	10.712	Fungi.
5-	Chlorfluazaron	Attabron Ec 50	12-3	150	7.34	Insect.
6-	Chlorpyrifos	Dursban EC 479	6-2	200-150	5.744	Insect.
7-	Triadimenol	Bayfedan EC 250	8-3	450-50	3.98925	Fungi.
8-	Maneb	Manebagan Wp 80	2	500	3.989	Fungi.
9-	Fenpyroximate	Metcor SC 50	4	200	2.659	Acar.
10-	Clofentezine	Apollo SC 500	8	140	2.55	Insect.
11-	Azocyclotin	Perpal WP 25	6-3	150	2.2339	Acar.
12-	Benfuracarb	Nakar	5-1	200-100	2.18	Insect.
13-	Carbosulfan	Marshal EC 25	2	150	1.968	Insect.
14-	Fenprothrin	Smash EC 100	10	100	1.8616	Insect.
15-	Copper Hydroxide	Kocide WP 50	4	250	1.808	Fungi.
16-	Vinclozolin	Ronilan WP 50	10	100	1.702	Fungi.

17-	Carbendazim Diethofencarb	Resec SC	1	600	1.5957	Fungi.
18-	Abemectrin	Vertemic	6	300-200	1.59	Insect.
19-	Pyrazophos	Afugan	6	160	1.54	Insect + Fungi.
20-	Iprodione	Rovral WP 50	6	150	1.436	Fungi.
21-	Pivimicarb	Pirimor	2	250	1.3297	Insect.
22-	Methamidophos	Proxex SL 600	3-4	250-150	0.957	Insect.
23-	Oxydematan	Metasystax	4	150-100	0.90	Insect.
24-	Cymoxanil + Oxadixyl	Sandocar WP	4	300	0.7978	Fungi.

**Other Pesticides:** Cyhalothrin – Methomyl– – Propanocarb Benomyl – Benomyl – Cypermethrin  
– Copper hydroxide–

## Potato

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. g./Donume	% Amount of Consumption	Remarks
1-	Methyl Bromide	Methyl Bromide	1	500.00	61%	Insect +Fung.
2-	Mancozeb	Manzidan Wp 80	10-2	500-250	17.59	Fung.
3-	Endosulfan	Thionex Ec 350	10-3	500-300	16.75	Insec.
4-	Maneb	Manebgan Sc 500	10-1	500-100	16.155	Fung + Acar.
5-	Methamidaphos	Prodex SL 600	4	350	14.85	Insec.
6-	Propineb	Antracole Wp 70	10-4	500-200	6.002	Fung.
7-	Fenamiphos	Nemacur Ec 400	1-3	300	5.489	Nemati
8-	Cooper Hydroxide	Kocide Wp	4-1	300-150	3.359	Fung.
9-	Phosethyl-Al	Aliete Wp 80	3-1	300-200	2.9879	Fung.
10-	Propamocarb Hcl	Dynonl SL 722	3-1	500-100	2.516	Fung.
11-	Thiocalm Hydrogen Oxalate	Evisect Sp 50	4-1	400-150	2.1658	Fung.
12-	Cypermethrin	Cymbush Ec 100	5-2	300-150	1.635	Insect.
13-	Cymoxanil + Mancozeb	Mancur Wp	6-1	350-140	1.5	Fung.
14-	Chlorfluazaron	Attabron Ec 50	6-1	250-50	1.2818	Insect.
15-	Mancozeb	Mancotal Wp 80	5-3	250	1.2	Fung+Acar.
16-	Metalaxyl	Ridomil Wp 25	4	350	1.074	Fung.
17-	Chlorpyrifos	Dursban Ec 479	3	300	0.928	Insec.
18-	Copper Oxychloride + Cymoxanil + Oxadixyl	Sandocur Wp	4-1	500-100	0.884	Fung.
19-	Fenpropathrin	Smash Ec 100	3-1	300-100	0.608	Insec+Acar.

**Other Pesticides:** Methamidophos - Tebuconazole - Cyfluthrin – Sulfer- Benomyl - Thiocalm Hydrogen Oxalate Carbosulfan– Abemectrin - Cyhexatin- Methomyl

## Cucumber

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. G./Donum e	% Amount of Consumption	Remarks
1-	Maconzeb	Manzidan Np 80	36-2	350-200	27.68	Fung
2-	Endosulfan	Thionex	8-2	200-100	10.2486	Insec
3-	Cooper Oxychloride Cymoxanye + Oxadixyl	Sandocure Wp	12-1	500-70	9.19	Fung
4-	Methamidaphos	Prodex SI 600	16-1	300-100	8.3638	Insec
5-	Fenpropathrin	Smash Ec 100	10-3	300-150	7.539	Insec
6-	Propamocarb Hcl	Dynone SI 722	8-1	350-80	7.3978	Fung
7-	Cypermethrin	Cymbush Ec 100	1	200	4.3586	Insec
8-	Triadimenol	Bayfidan Ec 250	10-1	150-50	3.969	Fung
9-	Propineb	Antracol	20-2	350-100	3.922	Fung
10-	Maneb	Manebagan Wp 80	16-4	250-200	2.619	Fung
11-	Copper Hydroxide	Kocide	2	350	2.238	Fung
12-	Penconazole	Ofir Ec 100	8-1	200-50	1.96	Fung
13-	Abamectrin	Vertimic Ec 18	5-2	100-40	1.9437	Insec
14-	Phosethyl-Al	Aliete Wp 80	4-1	300-80	1.736	Fung
15-	Cyhalothrin	Karate	10-3	150-80	1.326	Insec
16-	Chlorpyrifos	Dursban Ec 479	8-1	350-150	1.1	Insec
17-	Thiocalmhydroger	Evisects Sp 50	8-2	200-100	1.179	Insec
18-	Fenamiphos	Nemacur	4-1	500-300	1.06	Nemat
19-	Chlorfluazuron	Attabron Ec 50	13-1	250-80	0.9	Insec
20-	Oxydemethon-methyl	Metasystax	3	100	0.8717	Insec
21-	Cymoxanyl +Mancozeb	Mancur Wp	1	300-150	0.8240	Fung
22-	Metalaxyl	Ridomil Wp 25	3	150-300	0.812	Fung
23-	Etridiazole	Rubigan Ec 120	4	50	0.624	Fung
24-	Carbendazim + Diethofencarb	Resec Sc	7-6	150	0.589	Fung
53-	Methyl Bromid	Methyl bromide	1	50000	-	Nema., +Fung. +Insect.

**Other Pesticides:** Maneb – Azocyclotin – Pyrazophos – Benomyl – Prothiofos –

Benfuracarb – Carbosulfan – Bromoprylate – Dimethoate – Cypermethrin – Methomyl –

Cyfluthrin – Sulfur – Tebuconazole Dichlorvos – Fenraterate – Fenazaquin – Permethrine

– Parathion – Quinomethionate + Triadimenol – Carbendazim – Copper Hydroxide –

Amitraz – Iprodione – Clofentezine – Imidacloprid -

**Squash**

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. G./Donume	% Amount of Consumption	Remarks
1-	Methamidaphos	Tamaron; Prodex	18-4	250-100	20.472	Insect
2-	Fenprothrin	Smash Ec 100	10-5	300-120	19.504	Insect
3-	Maneb	Manebgan Sc 500	15	350-200	15.688	Fung
4-	Triadimenol	Bayfedan Ec 250	6-2	100	11.448	Fung
5-	Mancozeb	Manzidan Wp 80	7-2	250-350	10.6	Fung
6-	Azinphos-methyl	Cotnion	12	400	7.632	Insect
7-	Endosulfan	Thionex Ec 250	10-4	80-400	5.8512	Fung
8-	Copper Hydroxide	Kocide Wp 50	10	350	4.452	Fung
9-	Quinomethionat	Morestan Wp 25	15	350	3.816	Fung
10-	Penconazole	Ofir Ec 100	5	250-60	3.80752	Fung
11-	Cyhalothrin	Karate Ec 50	12-3	250-80	3.7312	Insect
12-	Cypermethrin	Cymbush Ec 100	3-2	100	2.6288	Insect
13-	Thiocalm Hydrogen Oxalate	Evisect Sp 50	6-3	150-100	1.696	Fung
14-	Chlorpyrifos	Dursban Ec 479	18	250-200	1.696	Insect
15-	Abemectrin	Vertemic Ec 18	6-2	120-40	1.47552	Insec+Ac ar.
16-	Fenpyroximate	Meteor Sc50	1	500	1.06	Acar
17-	Chlorfluazaron	Attabron Ec 50	4	100	0.9328	Insect
18-	Quinomethionat e + Triadimenol	Litiril Sc	11-6	100-400	0.848	Fung
19-	Captan	Marpan Sc 480	5	160	0.6784	Fung
20-	Cyhexatin	Acritel Wp 25	2	100	0.6784	Acar
21-	Copper Oxychloride + Cymoxanil + Oxadixyl	Sandocur Wp	8-4	200-150	0.636	Fung
22-	Flutolanil	Protar Sl 600	1	250	0.5088	Fung

**Other Pesticides:** Carbendazim + Diethofencarb - Dimthoate - Imidacloprid - Benomyl - Benfuracarb Muskmelon

**Muskmelon**

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. g./Donume	% Amount of Consumption	Remarks
1-	Methyl bromide	Methyl bromide	1	50000	55.16	Pest.
2-	Fenprothrin	Smash Ec 100	2	120	22.87	Insect.
3-	Propamocarb	Dynone Sl 722	4-1	1000-200	16.6	Fung.

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4-	Cyhalothrin	Cymbush	3	300	11.07	Insect.
5-	Abemectrin	Vertemic Ec 18	5-2	150-40	6.39	Insec+Ac ar.
6-	Penconazol	Ofir Ec 100	4-2	300-50	5.78	Fung.
7-	Myclobutanil	Manebgan Sc 500	5-4	350-30	4.42	Fung.
8-	Maneb	Manebgan Sc 500	5-4	350-30	4.08	Fung.
9-	Triforine	Saprol	1	300	4.05	Fung.
10	Carbosulfan	Marshal Ec 250	2	200	2.52	Insect.
11	Mancozeb	Manzidan Wp 80	10-2	300-250	3.84	Fung.
12	Thiocalm hydrogen oxalate	Evisect Sp 50	4-3	100-150	3.33	Fung.
13	Primimcarb	Pirimor Wp 50	3	150	3.15	Insect.
14	Propineb	Antracol Wp 70	10-3	300-250	2.6	Fung.
15	Triadimenol	Bayfidan Ec 250	2	50	2.52	Fung.
16	Copper Oxychlorid + Cymoxynyl + Oxadixyl	Sandocur Wp	3	450	2.07	Fung.
17	Fenamiphos	Namcur Ec 400	1	300	0.922	Nem..
18	Methamidaphos	Prodex SI 600	2	250	0.615	Insect.
19	Benomyl	Benlate Wp 50	2	50	0.5	Fung.

**Other Pesticides:** Endosulfan

## Watermelon

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. g./Donume	% Amount of Consumption	Remarks
1-	Methamidaphos	Prodex Tamaron	2	350	19.5	Insect
2-	Propamocarb Hcl	Dynone	1	700	16.85	Fung
3-	Propineb	Antracol	2	320	16	Fung
4-	Endosulfan	Thionex EC 350	2	450	10.2	Insect
5-	Triadimenol	Shafet (Bayfedan)	2	400	8.4	Fung
6-	Maneb	Manebgan Sc 500	3-2	500-300	7.4	Fung
7-	Carbosulfan	Marshal	2	150	6.07	Insect
8-	Abemectrin	Vertemic Ec 18	2	70	5.7	Insect
9-	Triadimenol	Bayfidan Ec 250	3	100-40	3.24	Fung
10-	Mancozeb	Manzidan Wp 80	3	300-250	2.76	Fung
11-	Penconazol	Ofir Ec 100	3-2	100	1.78	Fung
12-	Fenpropathrin	Smash	2	150	0.81	Insect

**Other Pesticides:** Dichlorvos – Chlorfluazaro- -Oxadixyl - Benfuracarb - Oxydemeton - Copper Oxychloride + Cymoxynyl +

## Legumes

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. g./Donume	% Amount of Consumption	Remarks
1-	Maneb	Manebagan	3	350-250	25.7312	Fung.
2-	Propineb	Antracol	10	300	16.32	Fung.
3-	Methamidophos	Prodex Tamaron	3-2	300-15	16.2	Insect.
4-	Mancozeb	Manzidan	5-3	350-150	11.1248	Fung.
5-	Cyhalothrin	Cymbush	5	300-100	8.1328	Insect.
6-	Azinphos-methyl	Cotonion	20	200	6.53	Insect.
7-	Carbosulfan	Marshal Ec 250	4	600	1.3056	Insect.
8-	Endosulfan	Thionex Ec 50	2	300	0.85652	Insect.
9-	Copper Hydroxide	Kocide	8	240-100	0.84864	Fung.
10-	Chlorfluaron	Attabron Ec 50	3-2	500	0.7072	Insect.
11-	Chlorpyrifos	Dursban	4	350-150	0.6528	Insect.
12-	Copper Oxychloride Cymoxanil + Oxadixyl	Sandocar Wp	1	350	0.5984	Fung.

**Other Pesticides:** Thiocalm hydrogen oxalate – Fenpropathrin – Methidathion – Abemectrin -Fenamiphos - Penconazole

## Cabbage

No.	Common name	Commercial name	No. Frequency of spr.	Rate ml. g./Donume	% Amount of Consumption	Remarks
1-	Mancozeb	Manzidan	18-3	300-150	27.775	Fung
2-	Chlorpyrifos	Dursban Ec 479	10-2	200-150	19.695	Insect
3-	Cyhalothrin	Cymbush	12-5	200-100	17.675	Insect
4-	Methamidophos	Prodex	10-1	250-150	7.676	Insect
5-	Endosulfan	Thionex	10-1	500-250	7.575	Insect
6-	Copper Hydroxide	Kocide	18	150	6.767	Fung
7-	Fenpropathrin	Smash	12-1	150	4.545	Insect
8-	Abemectrin	Vertemic	9-1	200-150	4.545	Insect
9-	Chlorfluazaron	Attabron	4-3	100	1.212	Insect
10-	Diclofol +Tetradifan	Mition combi Ec	8	175	1.212	Acar
11-	Cymoxanil +Mancozeb	Mancor Wp	3	180	0.808	Fung
12-	Sodium Fluosilicate	Safsan GB 115	1	100	0.606	Insect
13-	Imidacloprid	Confidor	1	100	0.30	Insect

## Onion and Garlies

No	Common name	Commercial name	No. Frequency of spr.	Rate ml., g./Donume	% Amount of Consumption	Remarks
1-	Metalaxyl	Ridomil	5-4	300	18.6	Fung.
2-	Carbosulfan	Marshal	10-2	200-150	15.5	Insect.
3-	Fenamiphos	Nemacur	1	2000	12.25	Nemat+Fung
4-	Cymoxanyl+Mancozeb+Oxadixyl	Sandocur	1	350-300	11.37	Fung.
5-	Endosulfan	Thionex	2	200	10.85	Insect.
6-	Methamidophos	Prodex	7-1	250-200	10.5	Insect.
7-	Dichlorvos	Divipan	10-2	150-100	8.05	Insect.
8-	Mancozeb	Manzidan	2	300	7.4	Fung.
9-	Propineb	Antracol	3	350	7	Fung.
10-	Copper Hydroxide	Kocide	3	300	6.3	Fung.
11-	Maneb	Manebagan	3-2	300-150	1.75	Fung.
12-	Iprodione	Rovral	1	120	0.735	Fung.

\*Insect.= ,Fung.= ,Nemat.= ,Acar.= .

**Other Pesticides:** Cyfluthrin - Oxyfluorfen - Penconazol

## Conclusion

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