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Number of trees per acre

Spacing(ft)	Square	Quincunx	Hexagonal
10	435	870	500
16	170	340	195
20	109	218	125
24	75	150	86
28	56	112	64
36	34	38	39
40	27	54	31

Number of plants per acre

Distance in metre	No. of plants per acre
1 x 1	4000
2 x 2	1000
3 x 3	444
4 x 4	250
5 x 5	160
6 x 6	111
7 x 7	81
8 x 8	62
9 x 9	43
10 x 10	40

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Germination and purity standards

S. No.	Variety	Minimum Germination percentage	Minimum Purity percentage
1	Cowpea	75	98
2	Cluster beans	70	98
3	Field beans	75	98
4	Beans	75	98
5	Bhendi	65	99
6	Bitter gourd	60	99
7	Sponge gourd	60	99
8	Bottle gourd	60	99
9	Cucumber	60	99
10	Snake gourd	60	99

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11	Watermelon	60	99
12	Pumpkin	60	99
13	Cauliflower	65	98
14	Cabbage	70	98
15	Knol-khol	70	98
16	Carrot	60	95
17	Radish	70	98
18	Brinjal	70	98
19	Tomato	70	98
20	Chillies	60	98
21	Capsicum	60	98
22	Greens	70	95
23	Fenugreek	70	98
24	Basella	60	96
25	Onion	70	98

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Viability of Horticultural seeds

S.N.	Name of seed	Max. viability period
	A. Vegetables	
1	Onion	6 Months
2	Beans, Pea, Cowpea	1 Year
3	Brinjal, Tomato, Chillies, Capsicum, Cucumber, Squashes, Pumpkin, Carrot, Radish, Turnip, Cole crops.	1.5 Years
4	Bhendi, Lettuce, Amaranthus, Methi, Beet root, Palak.	2 Years
	B. Fruits and root stock plants	
1	Lime, Mandarin, Citrus rootstock species	1 Week
2	Mango stones, Litchi, Passion fruit, Butter fruit, Rose apple, Jambulana.	1 Month
3	Papaya, Kirni seeds	3-4 Months
4	Guava	4 Months
5	Watermelon, Musk melon	1 Year
6	Custard apple, Ramphal and other Annona sp.	1.5 Years

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C. Plantation and Spices		
1	Clove, Nutmeg, Cinnamon, Curry leaf	1 Month
2	Arecanut, Cashewnut	3 Months
3	Coconut	4 Months
4	Coriander and other annual spices	1 Year
D.Flowers		
1	Aster seeds, Gladioli corns	1 Year
2	Marigold	1.5 Years
3	Other annual flower seeds	1 to 2 Years

Average composition of manures and fertilizers

Materials	Percentage of Nutrients		
	N	P	K
Ammonium sulphate	20.5	-	-
Ammonium sulphate nitrate	26.0	-	-
Ammonium nitrate	33.5	-	-
Ammonium	16.0	20.0	-

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phosphate			
Calcium ammoniu m nitrate	20.5	-	-
Nitrate of soda	16.5	-	-
Urea	46.0	-	-
Superphosphate -single	-	18.0	-
Superphosphate -double	-	35.0	-
Superphosphate -triple	-	45.0	-
Ultraphos	-	28.3	-
Mussoriephos	-	20-24	-
Rock phosphate	-	28.4	-
Bone meal	3.5	21.0	-
Muriate of Potash	-	-	50 or 60
Poultry manure	1.2 -1.5	-	-
Sheep manure	0.8 - 1.6	-	-
Farm yard manure	0.4	0.3	0.2
Compost	0.5	0.25	0.5

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Conversion of pure nutrients to various N, P and K fertilizers

Rate of application (kg/ha)	Ammonium Sulphate (20% N)	Urea (46% N)	Super Phosphate (18% P)	Muriate of potash	
				(50 % K)	(60 % K)
10	50	22	56	20	17
20	100	44	112	40	34
30	150	66	168	60	51
40	200	88	224	80	68
50	250	110	280	100	85
60	300	132	336	120	102
70	350	154	392	140	119
80	400	176	448	160	136
90	450	198	504	180	153
100	500	200	560	200	170
110	550	242	616	220	187
120	600	264	672	240	204
130	650	286	728	260	221
140	700	308	784	280	238
150	750	330	840	300	255

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Neutralising value of liming materials

Calcium carbonate or lime stone	$CaCO_3$	100
Burnt lime	CaO	179
Slaked lime	$[Ca(OH)_2]$	136
Dolomite	$[CaMg(CO_3)_2]$	109

Scientific name of Horticultural Crops

Crop	Scientific name of the crop
Mango	*Mangifera indica* L.
Guava	*Psidium gujava* L.
Pomegranate	*Punica granatum* L.
Jack	*Artocarpus heterophyllus*
Jamun	*Eugenia jambolana*
Tomato	*Lycopersicon esculentum* Mill.
Bhendi	*Abelmoschus esculentus* L.Moench.

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Crop	Scientific name of the crop
Onion	*Allium cepa* var. *aggregatum* L.
Cluster beans	*Cyamopsis tetragonolobus* L.
Pumpkin	*Cucurbita moschata* Poir.
Ribbed gourd	*Luffa acutangula* Roxb.
Bitter gourd	*Momordica charantia* L.
Snake gourd	*Trichosanthes anguina* L.
Ash gourd	*Benincasa hispida* Cogn.
Bottle gourd	*Lagenaria siceraria* Standl.
Cucumber	*Cucumis sativus* L.
Cowpea	*Vigna sinensis* L.Walp.
Lablab	*Lablab purpureus* var.*typicus* L.
Potato	*Solanum tuberosum* L.
Sweet potato	*Ipomoea batatas L.Lam.*
Tapioca	*Manihot esculenta Crantz.*
Elephant yam	*Amorphophallus companulatus Blume.*
Colocasia	*Colocasia esculenta L.Scott.*

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Crop	Scientific name of the crop
Amaranthus	*Amaranthus sp.*
Coccinia	*Coccinia indica*
Curryleaf	*Murraya Koengii*
Mint	*Mentha sp.*
Pepper	*Piper nigrum L.*
Nutmeg	*Myristica fragrans Hoult.*
Cinnamon	*Cinnamomum zeylanicum Blume.*
Coriander	*Coriandrum sativum L.*
Garlic	*Allium sativum L.*
Tamarind	*Tamarindus indicus L.*
Ginger	*Zingiber officinale Rosc.*
Fennel	*Foeniculum vulgare Mill.*
Fenugreek	*Trigonella foenumgraecum L.*
Cardamom	*Elettaria cardamomum Maton.*
Cumin	*Cuminum cyminum*
Turmeric	*Curcuma domestica Val.*

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Crop	Scientific name of the crop
Mustard	*Brassica juncia L. Czern. Coss*
Clove	*Eugenia caryophyllus Spregel.*
Cashew	*Anacardium occidentale L.*
Betelvine	*Piper betle*
Ajowan/ Ajwain	*Trachyspermum ammi L.*

WAITING PERIODS FOR THE SAFE HARVEST OF HORTICULTURAL PRODUCE

S. N.	Crops	Pesticide	Concentration (%)	Waiting period (Days)
1.	Mango	Dimethoate	0.06%	14
		Fenthion	0.05	14
		Cypermethrin	0.01	6
		Quinalphos	0.05	12
		Methyl demeton	0.05	14
		Mancozeb	0.20	7
		Lindane	350 g a.i/ha	---
2.	Acid lime	Chlorpyrip	0.05	9

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		hos		
		Methyl demeton	0.05	12
		Methyl parathion	0.05	7
		Monocrotophos	0.04	12
3.	Grapes	Carbaryl	0.10	5
		Dimethoate	0.06	5
		Fenthion	0.05	4
4.	Guava	Malathion	0.10	7
		Methyl parathion	0.05	9
		Monocrotophos	0.05	9
		Phosalone	0.07	4
		Quinalphos	0.05	12
5.	Ber	Endosulfan	0.07	5
			0.04	15
		Quinalphos	0.05	7
6.	Tomato	Phosalone	0.05	3
		Fenitrothion	0.07	2
		Methyl parathion	0.05	5
		Quinalphos	0.05	5
		Mancozeb	0.20	5
7.	Brinjal	Phosalone	0.07	2
		Fenitrothion	0.10	5

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		Endosulfan	0.07	3
		Carbaryl	0.10	3
		Methyl parathion	0.05	5
		Mancozeb	0.20	2
		Disulfoton	1 kg a.i/ha	60
		Aldicarb	1 kg a.i/ha	60
8.	Bhendi	Phosalone	0.07	5
		Fenitrothion	0.05	6
		Endosulfan	0.07	3
		Carbaryl	0.10	3
		Methyl parathion	0.05	7
		Triazophos	350 g a.i/ha	5
		Lindane	350 g a.i/ha	5
		Disulfoton	1 kg a.i/ha	55
		Aldicarb	1 kg a.i/ha	55
9.	Chillies	Dicofol	0.05	1
		Quinalphos	0.05	8
		Mancozeb	0.20	6
		Lindane	350 g a.i/ha	2
		Aldicarb	1.25 g a.i/ha	60
		Carbofuran	1.25 g a.i/ha	60
		Dimethoate	0.03	5
		Acephate	0.06	7

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			0.075	5
			0.151	8
10.	Lablab	Endosulfan	0.07	6.8
			0.14	9.9
		Monocrotophos	0.05	12, 0
			0.1	16.5
11.	Cardamom	Methyl parathion	0.05	Fresh capsules : 18-20
				Cured capsules : 24-31
				16
		Endosulphan	0.07	
12.	Betelvine	Carbofuran	0.75 kg a.i/ha	33

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