since it is very caustic and the result will be any-thing but pleasant.

With trees which are very thrifty, with no bark-lice and no scales of old bark, which ought to be re-moved, treatment with potash may be altogether unnecessary (though I am not convinced of this even in such a case), but if your trees are the least rough in appearance or affected with lice, then try it and be convinced of its value.

The Vegetable Garden.

The Vegetable Garden.

Whether vegetables are grown in the garden or out in the root field where horse culture is easily given, whether for market or the home table, the general rules to be observed by the grower are the same; or at least what will succeed in one case will not fail in any of the others. The condition for the successful germination of seed in the land is that it should be placed so as to have a reasonable amount of heat, moisture and air. To secure these conditions in practice, the seed should be imbedded in mellow soil, and this packed around it just firm enough to bring into actual contact and make sure of capillary action in the soil. If the soil is left loose over and around the seed, capillary action cannot continue, and the seed is liable to dry out unless the season is very wet; on the other hand, the soil must not be allowed to become too compact over the seed, or the young seedlings will not be able to push through it. The time of sowing the various garden seeds varies greatly. Some seeds,

such as Spanish onion, lettuce and radish, may be sown as soon as the ground can be worked, while the seed of such tropical plants as corn, cucumber and squash, should not be sown until the ground is well warmed. The applies soon as the state of the second state of the same of the well warmed. The earlier sown, hardier seeds, are often frozen in the ground and perhaps covered with snow without injury; in fact, a covering of snow seems to help seeds of the hardy kinds to BEETS.

Turnip varieties being among the most delicious of the early summer vegetables, it is well to risk sowing early and a little thick in case of frost destroying a part. They can be easily thinned by hand when the plants are three or four inches high. In any case they should not be allowed closer than In any case they should not be allowed closer than three inches in the row. The beet prefers a very rich, sandy, well-worked soil. Sow in rows about 16 inches apart in the garden, and wider in the field when horse cultivation is to be given. Cover the seed about one inch deep in mellow soil, pressing the ground firmly over the rows. As soon as the seedlings appear they should be cultivated with a wheel hoe to break the crust and kill weeds, and the cultivation repeated at frequent intervals. When the plants are eight or ten inches high they make excellent greens, and if then thinned to six or eight inches apart the bulbs will be ready to use in June and be good for the remained of the summer. For and be good for the remained of the summer. For winter use the seed should not be sown till the last of May or first of June.

CARROTS.

English Horn and other early table varieties are much appreciated on the table, and are a profitable crop for the market gardener. This vegetable requires fine, rich, upland soil to do well. The seedlings are quite delicate when they first come up, and every precaution should be taken to have the land clean so that the small seedlings will not be overrun with weeds; the surface soil should be kept loose and mellow throughout the season. It is well to sow a few radish seeds among the carrot seeds as the former comes up earlier and marks the is well to sow a few radish seeds among the carrot seeds, as the former comes up earlier and marks the lines of the rows so that cultivation can be commenced early. The seed should be sown very early in the spring, and will then produce roots large enough for table use by early summer. The main crop may be planted somewhat later and in rows wide enough apart to admit of horse cultivation. If the seed is good and the soil moist, fine and rich, about two pounds per acre is thick enough. Vary If the seed is good and the soil moist, the and rich, about two pounds per acre is thick enough. Very thick seeding is undesirable, as the cost of thinning in such a case is considerable. It is best for the grower to have the soil right and seed right, then sow thinly so that thinning and weeding will be easily done. The plants should stand three to four inches apart in the row when thinned.

PARSNIPS.

Parsnips, if sown at all, should be in early, as the seed is slow to germinate, and if the ground becomes dry before the plants are up the crop is gone for the season. This crop is grown in the same manner as carrots, but is rather more

Spraying Calendar.

(Recommended by Spramotor Company.)

PLANT.	1ST APPLICATION.	2nd Application.	3RD APPLICATION.	4TH APPLICATION.	5TH APPLICATION.	6TH APPLICATION.
ple cab, codling moth, bud moth.	When buds are swelling, copper sulphate solu- tion and *Arsenites.	Just before blossoms open, Bordeaux. For bud moth, Arsenites, when leaf buds open.	When blossoms have fall- en,Bordeaux andArsen- ites.	10-14 days later, Bor- deaux and Arsenites.	10-14 days later, Bordeaux and Arsenites.	10-14 days later, Bo deaux and Arsenites,
bbage and Cauliflower Vorms, aphis. ery eaf blight, rust.	When worms or aphis are first seen, Kerosene emulsion. Ammoniacal copper car- bonate at first appear-	7-10 days later, if not heading, renew emul- sion. Reneat first to keep fo-	7-10 days later, if heading,	Repeat third in 10-days if necessary.		
		When fruit has set, Bor- deaux. If slugs appear, dust leaves with air-	10-14 days if rot appears, Ammoniacal copper car- bonate.	10-14 days later, Ammo- niacal copper carbon- ate.		
rrant fildew, worms.	At first sign of worms, Arsenites.	If leaves mildew, Bor-	If worms persist, Helle- bore.	After fruit is harvested, apply Bordeaux freely.	, , ,	
oseberry fildew, worms.	worms as above.	deaux. For worms as	10-14 days later, Ammo- niacal copper carbon- ate. For worms as above.	third.	~ .	
ape 'ungous diseases, flea-beetle.	In spring when buds swell, copper sulph. so- lution. Paris green for flea-beetle.	When leaves are 1-11 inches in diameter, Bordeaux. Paris green for	When flowers have fall- en, Bordeaux, Paris green as before.	10-14 days later, Bor-	10-14 days later, if any disease appears, Bor- deaux.	coppercarbonate, Mal later applications
reery Stock	When first leaves appear, Bordeaux.	The state of the s		10.00	10-14 days, repeat first.	this if necessary. 10–14 days, repeat first.
ach, Nectarine, Apricot, Brown rot.	surpriace solution.	deaux.	When fruit has set, repeat first.		When fruit is nearly grown, Ammoniacal	
er blight, scab psylla, codling moth.	tion.	open, Bordeaux; Kero-	Amoniton Vanagana	third.	copper carbonate. 10-14 days later, Bor- deaux, Kerosene emul- sion applied forcibly for	fifth if necessary.
ungous diseases, curculio.	During first warm days of early spring, Bor- deaux for black knot. When leaves are off in the fall, Kerosene em- ulsion for plum scale.	knot and other fungous	to jar trees for curculio. Before buds start in	curculio every 2-4 days. For San Jose scale, Kerosene emulsion when young appear in spring	Jar trees for curculo. When young plum scale insects first ap- pear in summer, Ker-	Later applications m be necessary to preve leaf spot and fruit r use Ammoniacal of
tato cab, blight, beetles.	Soak seed for scab in corrosive sublimate so- lution (2 ozs. to 16 gals. of water) for 90 minutes.	pear, Arsenites.	thirds grown, Bor- deaux; Arsenites for		deaux if necessary.	per carbonate.
eaf and fruit spot. spberry, Blackberry, Dewberry inthracnose, rust.	When blossom buds ap- pear, Bordeaux.	During summer, if rust	10-20 days later, Bor- deaux. Repeat second if neces-	Orange or red rust is treated best by destroy- ing entirely the affected	10-20 days later, Bor- deaux.	, ,
se fildew, black spot, red spider. aphis.	For mildew, keep heat- ing pipes painted with equal parts of lime and sulphur mixed with water to form a thin	Ammoniacal copper	Kerosene emulsion.	parts with Kerosene emulsion when neces-	. 4	Kerosene emulsion m be used very dilute, rose foliage is eas injured by it.
awberry tust.	paste. When growth begins in spring, Bordeaux.	As first fruits are setting, Bordeaux.	As first fruits are ripening, Ammoniacal cop-	When last fruits are harvested, Bordeaux.	Repeat third if foliage	Repeat third if necessa
mototot, blight,	As soon as disease is dis- covered, Bordeaux or a	Repeat first at intervals	per carbonate.	,	i usto,	(38) A

* Arsenites referred to in the calendar include Paris green and arsenate of lead.

FORMULAS.

BORDEAUX	MIXTURE.		
1.	Canadian.	American.	

		Canadia	n. American.	
J.	Copper sulphate	4 pound	ls 6 pounds	
	Quicklime	4 11	4 "	
197-2-61	Quicklime Water	50 gallon	s 45 gallons	- ACR 11.11
T	o destroy leaf-eating	insects, add	four ounces of	Paris
green	. For peach, use th	iree pounds eac	ch of copper su	lphate
and I	ime, and three ounc	es of Paris gre	en on account	of the
tende	erness of the foliage.	To dissolve onic	ckly place the	conner
sulph	ate in a cotton bag	or basket and	suspend this	in the
vesse	l containing water	on that it is an	tiraly immores	d In
anoth	er vessel slack four	nounds of free	linery mimerse	a. In
maller	tot vossot stack tout	pounds of fres	n nime with as	many
Rento	ns of water. If the l	ime when slack	ted is lumpy or	gran-
ular,	16 should be strained	through a fine s	AVA OF CORPOR OF	acking
mot	i ne parr el containing	the conner sulp	hate now in col	ntion .
then	fill the barrel with w	ater and it is re	adv for neo lt	thould
2	THE THE COL TEACHER TO	MACE ASSESS TO 19 10	auj iui use. Il s	

then fill the barrel with water and it is ready for use. It should be used soon after being prepared. If the lime is air slacked or impure, the right quantity can be ascertained by applying the ferrocyanide of potassium test. If the lime is deficient, a drop of the ferrocyanide of potassium (yellow prussiate of potash) added to the mixture will turn brown. Add the milk of lime till the drop of ferrocyanide of potassium remains colorless; then add a little more milk lime to make sure that the strength is uniform, and fill the barrel with water.

COPPER SULPHATE SOLUTION. Copper sulphate. 1 pound Water 25 gallons

AMMONIACAL COPPER CARBONATE. $\begin{array}{lll} \text{Copper carbonate} & & 5 \text{ ounces} \\ \text{Ammonia} & & 2 \text{ quarts} \\ \text{Water} & & 50 \text{ gallons} \end{array}$

The copper carbonate is best dissolved in large bottles, where it will keep indefinitely, as it should be diluted with water as required. For the same purpose as Bordeaux.

PARIS GREEN. FOR FRUIT.

Paris green 4 ounces Water 40 or 50 gallons FOR POTATOES, Paris green. .6 to 8 ounces

Water....

If this mixture is to be used on peach trees, one pound quicklime should be added. Repeated applications will injure most foliage unless lime is added. Paris green and Bordeaux can be applied together with perfect safety. The action of neither is weakened, and the Paris green loses all caustic properties. For insects which they properties. For insects which chew.

ARSENATE OF LEAD.

1 pound .150 gallons KEROSENE EMULSION.

NEW SCALE REMEDY. NEW SCALE REMEDY.

The most satisfactory remedy for San Jose and other scales is now recognized to be crude petroleum oil, applied as a spray, either pure or diluted with water to the extent of 75 per cent, in the winter season. Summer applications of this material are not recommended.

CAUTIONS.

CAUTIONS.

Do not mix the copper preparations in iron or tin; always use wood, brass or earthen vessels.

Study carefully the nature of the insect or disease, and select the remedy that is most likely to destroy it without danger of injuring the plants.

Never spray with arsenites while the trees are in blossom; as the bees will be poisoned; they are necessary to fertilize the flowers.

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