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DOMINION OF CANADA. OESTRAL EXPERICENTAL FARM.

WM. SAUNDEFS, C.M.G.,
Director.
W. T. MACOUN, Horticulturiat.

## CONTENTS

Ginseno Cultlre. Mushhoom Cllture. Melon Culture.

## GINEENG CULTURE.

BI W. T. MACOUN, Hortioulturist, Central Experimental Farm, Ottawa.

For nearly two hundred years there has been a trado in ginseng between Ancriea and China, but during the last half century, the price obtained for tho root has gone up so rapidly that Ginseng is now worth nure than seven times as much as it was fifty yeara ago. This increased price is partly due to a growing popularity among the Chinese for American Ginseng, and partly because tho wild root has become more difficult to get. The high prices obtained for ginseng soon eneouraged the cultivation of this plant and like many new industries the inmenso profits in growing ginseng were heralded on every hand hefore these profits were actually made. While good prices have been obtained for mueh of the cultivated root, the largest profits have so far come from the sale of seeds and plants to those who wished to experiment.

The American Ginseng (Aralia quinquefolia), is a nativo of Canada and the United States. It is closely related to the Chinese Giuseng (Aralia Ginseug) and belongs to the Aralia family. The ginseng is also nearly related to the Wild Sarsaparilla (Aralia nudicaulis) but is a much smaller plant, growing only from 12 to 13 inches high, although often reaching 24 inches under cultivation. Instead of the flower stalk coming from near the ground like the wild sarsaparilla, it grows from the base of three compound leaver, all attarhed to the main stem by their petioles or leaf stens at the same point, each leaf being divided into five leaflets. There is another plant even more closely relatel to the ginseng, namely, the Ground Nut (Aralia trifolia) which is often mistaken for ginseng. It resembles the latter very mueh in the leaves, but it usually has three leaflets to a leaf instead of five. The flowers of the gronnd nut are white; those of the ginseng. greenish. The flower of both are in clusters or umbels. The fruit of the ginseng is searlet when ripe; th.:t of the ground nut is greenish. The fruit of both is in elusters. The root or tuber of ginseng is long; that of the ground nut is almost round. The ground nut is a smaller plaut than ginseng.

Ginseng is now very rare in the wild state in , Jada, but was formerly common in the Provinces of Ontario and Quebee in hardw forests on rich lands

The ginseng root has long been used by the CL. .ese, who value it very highly. It is thought by them to have remarkable properties, such as the power to ward off all kinds of sickness. It is quite probable that it has certain medieinal properties known to the Chinese. It is usually made into a tea and is also used by the wealthy for flavouring food. Those ginseng roots with several prongs, giving them somewhat the form of human beings, are particularly prized and higher prices are paid for such roots. The ginseng so far as is known in Ameriea has not great value as a medicinal plant, though it has a slightly stimulating cffect and is a specific for hiccough. The

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Chinese prefer the ginseng grown in Chima, but lave heen quite willing to far to pay good priees for the Ameriean root.

Ginseng is usually propagated from seeds and each plant after three years of age will produce from fifty to oue hundred or more seeds. Seeds of ginseng were sold for a cent or even two cents apiece when the interest in ginseng was at its highest, but tlicy can be oltained for less now. One of the first drawbacks to the culture of ginu-ng is the time requized, about eighteen inonths, for the need to gerninate. Thus, sced ripened in the autumn does not germiante until a year from the following spring. As the seed is precious it is not sown as soon as it is ripe, for, lying dormant in the ground as it would do during the next summer, it is liable to be injured in some way. It should not be let become !ry. The best plan is to stratify the teed as soon as it is ripe, leaving the pulp on. A mixture of sand, loanys soil, and keaf mould is rublecd very fine, so fine that it may be sifted out when desired and leave the seeds. A box with a lid is useful for the storing of the seeds. After putting in about one inch of the prepared suil seater the seeds thinly on top. Put in half an inch more soil, and so on until all the seeds are in. The box is now elosed and buried four or five ineles deep in well-drained soil where water will not lie at any time. The seed is left buried for a year. It is taken up the autumn after being buricd and sown at once in a bed specially prepared for it, ahout four feet wide being a convenient size. It slould be inelosed by six inch boardst for greater protection. The seed bed should be made of soil with a large amount of vegetnble matter or leaf mould in it, of auch n character that it will not bake, and free of aticks and stones which might interfere with the development of the roots. The seed is sown about one inch deep, two inches apart, in rows about three inches apart. After soeding, the bed should be mulched for winter with about two incles of deeayed leaves. Early in spring remove most of the leaves, the finer parts being left for a mulch on the surface of tho soil, through which the young plants will soon make their appearanec. Ginseng grows naturally in shady places and will not succeed in the open, hence shade should be giver. the beds in the spring. Sometimes an open space in the woods is found suitable for a seed bed, but the most satisfactory plan is to use laths. Fraines are made the width of a lath and about six feet in length, the laths being nailed about an ineh apart. Where a large plantation is made the frames are raised about six feet high so that the grower may walk upright beneath. The sides of the enclosure should also be protected with these frames to prevent the entrance of sunlight. If ouly a few plants are grown the frames may be raised about eighteen inehes above the bed. During the summer the bed should be kept free of weeds, as plants may be transplanted at any age, though the best growers now transplant the seedlings the antumn of the first year after the leares fall. The permanent bed is made much the same as the seed bed, but is usually wider and there should be at least a foot of good soil. This should be thoroughly worked over before the seedlings are transplanted. The soung plants should be taken up with great care so as not to injure the ronts, and re-planted in the permanent hed about eight inches apart each way. The wider the plants ane npart the less dauger there is from disease. The plants should be deep enough so that the rown will be about two inches below the surface of the soil. The bed is now mulehed for winter as in the case of the seed bed. During s icceeding years the ground is kept free of weeds and the surface stirred to encourage as rapid growth as possible. The plants begin fruiting when three vears old and the seed may be used to start new plantations. The roots are large enough for export when four to five years old and should average about two ounecs each in weight. The roots are carefully dug, eleaned and dried before shipping. Gradual drying in warm air makes a better root than quick drying in hot air; they are sometimes dried in the sun. Drying takes from two to eipht weeks, depending on the system. A good method of drying is to place a box with wire shelves above a stove when the warm air passing upwards dries the roots very well. Mcanwhile the fibres are rubbed off. The roots lose two-thirds of their weight in drying.

Several troublesome diseases have handicapped and discouraged ginseng growers during recent years, that causing the greatest injury being the Alternaria, whieh.
affects both leaves and stems. Sometimes this is so bud that the leavers are quite doatroyed, the seeds do nut ripen, and the po in do not tnake the growth they should. There is also a soft rot of the rool. Domping off of the seenling sometimes causen considerable loss. The Alternarin can le controlled by thoroush spraying with Bordeaux mixture, begiming carly in the senson.

Nimatode worms have also caused eonsiderable injury to the roots in some places, and no good remoly has been found so far for these.

There may be fair, and evengoon, profits in the futuro for the putiont and thorough ginseng grower, but for the majority of people: it is foared thit the long wait neceseary lefore the ront, are hurge cuough to be sold may hat to carclessinesa, whea tine mol money will be lost. Furthermore, although ginseng is at preent ond
 years, the future warket is uncrtain, Ifpending as it does on the whim of chinamen who may ut may time decide that American grown ginseng has no vitue in curing disense and muy only acerg that grown in China and Kurea.

# MUSFROOM CULTURE. 

HY W. T. MACOUN, Morticulturint. Cobtral lixperimental Furm, Ottawa.

There has been a growing interest in mushrom cultur: duriug reomit years, partly due to the high prices obtained for them and partly lewause of the lnrge protits said to be nude from growing them. The following inforsation should prowe usefind to any one desiring to grow mushmons:-

It is of the greateat inportance to have goorl spawn. If the spawn or mycelium is ,h whe there will be no mushrooms, no matter how cureflally the bed is looked after. Thercfore, mushroons spawn should he obtnined from reliabic sources.
'wn is the mycelinm of the mushroom and may be compared to the regctativo owering plants, while the mushroons themselves correspond to the tlowers. :: ks in which spawn is bought are merely the carriers of the myerlium which, proper conlitions are given, continues its growth anil eventunlly produces oms. The myedium is producen from spores whieh fall from the mature nushroms and germinate. The spawn-hearing bricks which are purchand are composed of horsc and cow manure mud sometimes a little loam. The compert is mouhled into the form of bricks and while still moist they are inoeulated with myeelium. This grows and permeates the bricks, which, when filled with the myeelium, are dried and stored ready for sale. If the bricks are not kept dry until they are nerdell for spawning the mycelium is liable to be injurel, and, as the older the bricks are the more likelihood there is of their being subjected to unfavourable conditions, fresk spawn should he used. The pare culture spawn liffers from the other in that the myrrlium is first grown from the tissue of young mushooms or from the spores in sterilized compost, by which method the best varieties and straine may be prawn pure.

The manure for the led should the partly roted horse manure: eow manure is mut so grod. This is usually obtained from livery stables and should be mixed withstrave bentling for best result, although mushroms will grow in manure when mixed with sawdust or chavings which have been used as bedling. It is piled in a place sheltered from rain and kept from burning by turning several times at intervals of four to susen days until the first vinleut heat is over, by which time it is thoroughly mixed and of comparatively uniform emnsistury and has lost its rank smell. This will take three weeks or a little less. To heat well, the pile should be at least four feet deep, or
more If the weather in cold. If the manure lo very dry, enough water may be ad led to make it moint, but not wet. The bell may be maile in a cellar under a house, beneath aree abouse b nelies, or in any falrly dark place where the temperature in the poom doee not go mueh about $60^{\circ} \mathrm{F}$, or under $60^{\circ} \mathrm{F}$. From $86^{\circ} \mathrm{F}$, to $68^{\circ} \mathrm{F}$. is a mood range. A lower temperature for a few daye will delay the appearance of musiscoons, but may not otherwise prove harmful. Munhrooms do beat where there le good ventilation, providing moieture and temperature can be controlled. When the manure is put in, it in tramped down aolirl, and thic can beat be accompllahed by atting on almut thre Inchen at a time and pomiling down well until there la a depth of fiftern inches, although leas will do where the tomperatuse is near $60^{\circ}$ F. all the time. When the manure is put in, it should be of such a concistency and moivtuese that it will nut crumble in the hand if mquered yet in not 20 moint that water will rome out. The temperature of the bed should mon rise about $100^{\circ} \mathrm{F}$. and after it has rearhed ito maximum and has fallen to between $70^{\circ} \mathrm{F}$. and $80^{\circ} \mathrm{F}$. the bed is ready for spawing Coorl results are obtaincyl if the bed in spawned at $65^{\circ} \mathbf{F}$. The spawn shonld be broken into pieces as large as a butternut or small egg, or larger, and the pieces inmerted every eight to ten inches or even further apurt ani from one to two inchew dieep In the manure, lifting it up when putting in the sparn, after which the manure shouid be presed tirmly ngainst the spawn and the whole bed made firm. From five to eight daye after spawuing, accorling to how fast the temperature is golng down, from two to three inches, or even less, of gocil loamy soil in spread on top of the manure. If there is a tendency to dr-nese, a light covering of hay or atraw may be put over the namure until it is time to put on the anil, after which the atraw is removed. The myeelium should begin to run in about two weeks, or less if it is good, and nouctimes the soil is not put on until it in seen as a white, cobweb-like growth extending in different directions from the piecea of spawn. If it ean be avoided, the bed should not be watered at all, ns watering, especially shortly after apawni..g, oftelı onusw injury. It in best to keep the floor and walls damp, the moisture given of from these furuishIng the soil with onough. If the room is very dry, lightly watering the bel with tepid water may be done very oceasionally, but there is danger of rotting the mycelium from watering. A covering of hay over the bed will help to keep in the moisture until the mushronms come. The growing of mushrooms during the summer months is not satisfactory, as maggots are very troublesome and difficult to eontrol. If the bed is prepared in the fall the mushrooms should appear in seven or cight weeks and the hod continues bearing for from two to threr monthe, but results with mnalimon er very uncertain. The amateur sometimes obtains a good crop, and other times w.iere is failure, although apparently the same treatment is given.

# MELON CULTURE. 

BY W. T. MACOUN, Horticulturist, Central Experimental Farm, Ottawa.

Both muskmelons and watermelons are very popular in Canadn, but in some parts of the country, owing to the short season, special methods of culture must be adopted to have them ripen during the warm weather, when they are most in demand.

More attention has been given to the culture of muskmelons in Canada than to wate melons, although the latter are grown extensiucly in tho warmer districts. The name cantaloupe is now applied to all muskmelons nlike by some people, hut the true cantaloupes are muskmelons of the type of the rough hard-skimued melons grown in Southern Europe and the Southern States but seldom met with in Canada. Being a native of Pcrsia and other parts of Asia, where there is great heat in the growing season, the muskmelon to do well must be kept in a high temperature from the time
the aced is anwn until the meloum are ripe. It the meedn are anom in eold aoll they are likely to rot. If the young what - are not well protectenl whell atnfted carly in tho hotbedt thay will be ehilled and rhoekml In thelr growth or killed, and if thapir apre emol nighta and the plants nre exjwnitl when they arr In hoom, melons will not ent. Firthermuws, the elightept frout will kllf the vinea. Having theme faets in mind, one ean intellizently berin the culture of melome.

An the carly melons are the mowt proftuble the methods of obtaining the in arn descritied beforg giving general directions for growing them in the upen. The nelon growers in the vieinity o! N!nereal have given more nttention to the production, of large, high clans early we ne han anywhere elme in c'mathonni as the exerollent reanlt which they have obtuined show what ean be done where the mensen is emaparatively anort, as it is over a barge part of Ganada, the first avstate of enture reeonmatiled is lmaed largely on their methoda.

The seed is mown in a grevinhonse or hotbeds durling the month of March or firse dnyse of April, either in pots or in rown alwut six hichex umart and ubout hulf int inwh deep in the soil. As eoon as the phats uppeur above $\mu$ romul, ventilation is given the bede during the dnytime, bint they are elosed ut night. As semen as the plante begin to blow the first rough leaf, they are prickent ont lito four heli pmote, or mometimen five inch pots ure used, meiting two plants in the purt. At timen it is dexirnble to
 started very carty. Plants may alao be atarted in pinces of sont or strawberry boxes. A piece of rom about four inchen mpuare in a sutinfactory size, three or four seeth being planted in ench piece. These sonds are sunk in the soil in the hotheols.

Some growers prefer sowing the aed direet in the frnme where the vine in to remnin. Warm, well-drained avil should be chowin for the melon phantation, as it is imporiant to have as high a soil temprernture as possihle nfter the leat of the manure lins heen expended. The soil for melons is preterably rather light, but having a good supply of wniluhle plant fool in it from a liberal applieation of barnyard manure which has been ploughed under. Jrenches are opened in this soil two to two and a half feet in width and eighteen inches in ikpth, early in Mas, wr the work may be done the previous autumn when, the soil heing exposed to the frost during the winter, beesmes bruken up. Thes. trenehes art dug in rows nbout twelve feet apart and as long ns spmee will allow. Into these trenclos is put aetively fernenting horse manure, filling them "' to within four inehes of the surface of thu ground. The moil is now thrown back $\quad p$ of the manure making the surface in the centre of the tromeli a little highe: rovide for settling. There shoutd it the sume time be a slight shope towarls the souti. There should be about cight or nine incher of moil. or at leat six inches, over the manure. Murable fromes nre used fur puttiug over the trench. The usmal loneth of eneh frame is abont twelve feet. They are six foet will and planued to take four lontbed snsh each 6 by 3 feet. A puth of about four feet is left at ench (riml of the frames for working about them. After the g'ass has lienin over the trench for a day or two, the soil will he warm enough to take the eed or youme plants, null it is at this time that the utmost care should he taken to prevent the phate getting chilled and a warm day should be chosen for tmunplating. Aa the young molon plants have not a large ront sestem and linve frew fibres to lold the snil to them, it should lie disturbel as littio as posaible. It is desirnble to water well before turniug the plants nut of the its rir hoxes. Three hills of twn, or at the most theres, phunt in a hill ure now made. horit four fect apart in the framsa. pressing the surroumling soil well about the phanta, lint at the same time not hrombine the bull of soil attachell tu the ronts. If in strawherry" expe there may in four phate to the hers when setting out. These all should be left matil the plants are ratalizhel when the wealiest plant slunhld be ent off. The plate shoald now lon shated to help prevalt their wilting. The frames should be protected early in the season at uirht with manine or harik to keep the bel as warm as mexible. From now on the ehief attention shonld be given to ventilating and ratering. On cold lave vere little wentilation can be given for fear of chilling the plants, but as the season advares and the wonther lapemes warmer
more and mare ventiluthon to alven. Ondy practice can alve the ower the hnowlenko
 the murnhus and the framen elowed at might. Water whonld be appilled when needhil, in a fine apray, the chill leing inken off it hefure uning. From thou to titue lt may le

 mianild be stathiw.
 Dinchisus Ia alven when the planta aro tranaphated from the pota to the frame, the


 alme bear melons and thum the hargeat posmille number of nelons ame proficel in tho amalleat nowce. An the melons set, the ende of the laterals on whelt they wre prowing





 are "ftell left "In for " few thasa in "aser there shonld lo an mexpmetend


 nene mereme where there is abminat mosisurn. Where the land is nuturnlly wet in Canala it is usanlly ten cold for molons, henere they are grown on the whrm, woll drainel wils which often berome dres in the summer and the sucerafal melon grower is prepared to irrignte when neerentry.

When une dow but "ixh to go to the expene of using hothed sadi for forcing the
 A frame is mude of pirees of twelve-inch boards and tho glass is laid on top, or it may. be $n$ ade to slide in 11 groneve so as to ventilate realily. Holes are dug about cighterit inchew herp and two fert square and nearly gilled with mannee as ulromby destribelt. Over these are put the small framex, sinking them six inchen in the suit nat mumber so thut they will afforl greater protection to the phants. Sisel or plante buty le pate in theas. They are left c.er the planta ns long as possible. but. as they have to be pro moved comparatively early In the season, eool uights afterwarls may injure the crip.

In the warmest girty of Camada, where the season in longest, the genernt priactice is to grow muskintona in the open, either without starting them in the grevoln, ine or hotbed or else merely starting the plants inside and planting them in the oproll what quite small, (irown in this way, they require as warm, well drained seil ns who $n$ foreed. If the soil ha* bean well mnnured no special preparation is make where thu. seed is sown, but us 11 rule a liveral quantity of mumure is mixed with the suit. A hole is made about cinht ches leepl mad about two fert somare inin which is thrown nbout tai. bushel of compost made of fort numme thorughly mixed with thu suil in the hole. The nmure should be Ahert, ins if hu:s
 hevel with the surface of the ground. Over this is pat abont two binches of gend hemmy enil whieh raises the hill that mueh above the surromating tovel. The hills, are mate from six to even fret apart. A dozen or more of sedsts are now phatull abme the centre of each hill, prewsing them in with the finger to ubont the lepth of one inch, after which the soil is pressed down with the land to firm it ment to nid in bringing the moisture to the seed. A few days after the seed is anw, sull just as or liefure the plants break through the ground, puisoned hran in the proportion of one ponnd l'aris grern to fifty pound braus should be sprinkled over the hili. This is to kill the cutworms, which are crers destructive to plants. Whin hauger of eutwerms is


 then which will cover the ground bent with the keavt crowiding. When the whem are


 neath at once to the sunt, lint turnlug past way at a time.

Munkmodons are ripe when they break eastly from the vhar. Whatm dipplug thenn



 luent to grow it well. As witermedone nre obtaimel from the l'inted sutren early in the acosom at comparatively low priese, thope is but the sathe imharement to forew iluw.







 are by mos meane necurate, whether with the genernl nppenamure of the melth, help to decide on what melone to harvent.

Insecta,-In addition to cutworma nleraly mentionmen, the melons are oftell injured hy the striped memmer leetle. Ta werembe this the inaves should lee kopt ewsored with laris urem mixenl with lani planter or lime in the proportion of one pmonl of the fortier to tifter pounds of the la'ter. Applientions shonlil be mulle avery two lays.


 often dies much indiury.

Grasshoppers are mometimes troublesme, entitug pimes out of the melone nud
 it, as recommended for entwormr, will kill them.

Diseases.-There are several discase, w! ich affiet ir vakmelons, amoug these being the mildew or blight, the alternaria, ala: :.e haetoriat wilt. The two former ean he, rhecked by thorough application of Bordeaux mixture brgituing early in Juty while the phants are still healthy looking, and comtiming at intervals of from ten inys to two weeks thronghut the senison. There is no genat remedy knuwn for the wilt.

