# emory



inion service in Knox church, it beng of the nature of a joint memorial
ervice, all Baptists, Congregationalsts and Presbyterians taking part. A
ervice was held in St. Boniface Cahedral this morning, which many peoole attended. Communion services
were held in a number of the Anglian churches. Twelve thousand peole were present at the memorial conan churches. Twelve thousand peo-ie were present at the memorial ser-ices which were held on the Horse how amphitheatre at 3 o'clock this fternoon. The services were of a emi-military character, and were of most impressive nature throughout ding was elaborately decor for the day.

Regina in Mourning.

REGINA, May 20 .- A day of genera REGINA, May 20.—A day of general ourning was observed in Regina to y, all places of business being closed it of respect to the late king nurches held special memorial services in addresses lauding the virtues of the te king were delivered. At the head-arters of the mounted police the ing of the 68-minute guns commenced the noon hour. Masons observed the y by attending divine service in St. mul's.

In Eastern Cities.

ORONTO, May 20.—An almost total pension of business in Toronto rked the observance of the solemn rial service conducted in London en King Edward was laid to rest. siness houses of the city presented almost solid front of purple and ack, and but few of them were open

NELSON, May 20.—Over 2,000 peo-filled the grand stand and Recrea-m grounds at 9:30 this morning at s memorial service for the late king id under the auspices of the 102nd timent, R. M. R. The drumhead service was an adaptation of the Church England funeral service under the ection of Rev. F. H. Graham, record St. Savior's church ection of Rev. F. H. Graham, rec-of St. Savior's church and regi-ntal chaplain, assisted by city clergy-n and St. Savor's church choir. The imental and city bands provided the sic, the assembled crowd joint artily in the hymns. All places siness and stores closed this more iness and stores closed this morn-Public buildings and many stores draped, and every flag in the city

Services at Washington. WASHINGTON, May 20.—President ft, the members of his cabinet, jusses of the United States supremert, the entire diplomatic corps and ctically all of official Washington anded here today a service in memof King Edward VII at St. John's scenal church.

usly at 11 a. m. today in three of city's largest churches by the 3,000 more delegates to the world's sixth day school convention. Each of the ices was packed, and the doors were ered closed to prevent dangerous widing. Overflow: ered closed to prevent dangerous wings. Overflow meetings were orized for those who were unable to into the main services. At the close the prayers and the reading of the norial service the delegates sang first stanza of "America," and then first stanza of "God Save the King." immense audiences filed slowly or immense audiences filed slowly out he churches at the close of the ser-as the pipe organs slowly played del's dead march. Many of the ish delegates and not a few of the



## RURAI. SUBURBANN

HOW TO GROW PANSIES

The Pansy! At the sound of that name, no matter where I hear it, my mind goes back to the scenes of youth and the humble home of my childhood days, and lingering there stops beside the first bed of pansies of which

My childish fancy was captivated. I see it now just outside the kitchen door so situated as to be sheltered from the fierceness of the noon-day sun, by the spreading of branches of a cherry tree.

Long and earnestly have I gazed upon those lovely flowers—the only flowers I have ever called lovely—at their faces in all the

sweetness of innocent loveliness were turned toward the rising sun and followed him with their gaze as he moved majestically across the azure vault of heaven.

My childish mind would wander from the pansy to the great cause beyond, and I would exclaim, "None but a God can make such love-

That was long, long years ago, and although today I am better able to undestand something about the law of cause and effect and better able to understand something about how the different strains of flowers are produced, I am yet ignorant of the great cause beyond, and the judgment of my more mature years only serves to confirm the impressions of my childish mind that "none but a God can create such loveliness."

Such must have been the sentiments inspired into our ancestors by this flower as they gazed upon it in all its pristine beauty if we are to judge by the endearing names by which it was called. The Italian name signified Idle Thoughts; the German, Little Stepmother. Many of the old names were full of affectionate meaning, Kiss-me, Pull-me, Piokof-my-Joan, Three-faces-under-a-hood, Kissme-at-the-garden-gate, Lady's-delight, None-so-pretty, and Kit-run-about. Most of the early poets called it Heartsease, while Shake-speare spoke of it as Love-in-Idleness. The French called it Pensee from which it derived the modern word pansy. But whatever the name, the pansy has ranked as one of the most beloved of all the flowers in the whole floral kingdom.

Parent is Tri-Color

The parent of the pansy is the Viola tricolor, which is found peeping through the meadows and fringing woodland walks and hedgerows in England and Europe, wherever man is found. A traveller, speaking of the forests of Sweden says: "Innumerable flowers of the loveliest colors peeped out between the masses of brown rock enamelled with various kinds of lichens, and huge fragments were variegated with beds of the pansy, or Heartsease, displaying its different hues, relieved by the darkness of the sweeping pines."

To obtain the best results in the culture the day. of this flower seed of the Giant flowered varieties such as Giant Excelsior. Cassier's Giant, Burpee's Defiance and Bugnot should be planted in August, while the smaller flowered sorts are better started early in the spring. The reason for this will be quite obvious when it is understood that the large flowering strains are not satisfactory summer bloomers.

They are not at any time such profuse and are grown for the immense size of the bloom which can be had only in the cool, moist weather of early spring or fall. Many persons have tried these as summer bloomers deepening and toning of the colors, the roots and been disappointed because the size fell must be protected or they will burn up and far short of that claimed for them, while the quantity of bloom was not equal to the ordinary bedding kinds.

Sow Early in Spring The smaller flowered strains will give satisfactory results when sown early in the spring, and may be had in bloom all summer. If you have a cold frame this is much the better place in which to start the seed, or they may be started in a box set in the porch on

he verandah. We will not give any directions for start-ng pansy seed in the house because we do not believe that ten per cent. of those who try starting this seed there would obtain satis-

ctory results. The pansy must have a cool, moist atmosere and plenty of fresh air, and must not be allowed to lag at any stage of its growth. If you have a cold frame plant the seed there as early in the spring as the frame can be the into use. If you have no cold frame elect a cool, moist place in the garden that a partially shaded during the hottest part of the day. By partially shaded—and the writer opes that those who understand the meanng of that term will pardon him if he should ligress in order to make himself clear to those whose idea of it is somewhat hazy. So many people have become disheartened and discouraged through failure with this flower because they stumbled and fell over that term "partial shade," that it is worth while

taking the time to set them right.

Partial shade does not mean dense shade a place which never gets a glimpse of the sun or where the gentle breezes never circulate. It means a place to which fresh air has access and yet is sheltered from the burn rays of the sun during the hottest part of the

Give them all the sun possible before it a. m. and after 4 p. m. If it is not possible to select such a partially shaded situation for the seed bed, make it right out in the open, and after the seeds have been planted drive five states in the seeds have been planted drive five stakes in the ground, one at each corner and one in the centre of the bed.

Allow them to project out of the ground about six or eight inches. Over these stretch a strip of cotton fastening to the stakes with tacks or clothespins. The latter are preferable as it is more convenient to remove the cotton in the evening and on dull days, or when water is required, than when tacks are

Having selected the place for the seed bed dig the ground to a depth of about eight inches making it quite fine all the way through. If the soil is not rich dig in a two inch layer of old rotten manure. Sow the seed thinly in rows covering to a depth of one-eighth of an inch. Be sure and do not cover too deep. When the young plants are up keep the surface soil loose and fine between the rows.

Remember the caution to shade during the hottest part of the day and never allow them to suffer for water. The young plants will be ready to transplant to thir permanent bed when they have made several leaves or about the time the first buds appear.

For the permanent bed select, as for the seed bed, a partially shaded location if possible, but select a place out in the open sun in

ble, but select a place out in the open sun in preference to too much shade. Dig it as deep as can be done with the spade or digging fork breaking it up real fine, not merely on the surface, but all the way through.

This depth is not necessary for the roots to penetrate, but loose ground will hold mois-ture longer than ground that has been hardening throughout the ages. Having dug the bed spread over it a good coat of well rotted manure from the cow stable or pig pen; say one wheelbarrow load to the square yard for light soil and half that amount for heavy loam if it is already fairly rich.

Never use manure from the horse stable unless it is two or three years old, or unless it is dug in the fall previous. Mahure of this kind, together with street sweeping which are more easily obtained in the larger town and cities contain a large percentage of ammonia and are heating character; hence the reason for digging in during the fall when the ground contains sufficient moisture to counteract their burning action on the soil.

Mix the manure thoroughly through the soil—mix until it all looks like earth. This heavy dressing will not only supply rich food for the plants but will assist in retaining moisture in the soil as well as keeping it loose and

When the bed is prepared and the plants are sufficiently advanced for transplanting set them out leaving from eight to ten inches between each plant.

Keep the surface soil loose and fine by frequent watering. If the bed is exposed dur-ing the heat of the day mulch the ground with grass clippings, straw, or anything that will conserve the moisture by excluding the sun from the roots during the hottest part of

The effect of the mulch is the same as that of partial shade. The object of shade is not to protect the plants, but to protect the roots from the intense fierceness of the burning rays

of the sun during the extremely hot weather.
The pansy, unlike the sweet pea, dahler, and other tall growing plants which cool subsoil, does not root deeply. Herein is to be found the reason for protecting them from bloomers as the smaller flowered bedding sorts, the sun during the hot weather. While the pansy likes the sunshine, and plenty of it, and while sunshine is absolutely necessary to the proper development of the bloom and the

> When the season advances and the plants give evidence of exhaustion by producing smaller and fewer flowers, an examination will reveal fresh branches starting out from the centre of the plant. The old branches, which have been blooming all season should be cut back, and the new growth allowed to shoot out. This cutting back should be done early enough in the fall to allow the plants to get a good start before the severe weather, and if given a good covering of straw, leaves or other coarse litter will produce bloom well into the second season.

### THE JAPANESE LILAC

By Prof. H. L. Hutt, O.A.C., Guelph

One of the most popular and generally grown shrubs in cultivation is the lilac. This not a native of this country, but has been introduced from Europe and Asia. There are now nearly a dozen distinct species which have been brought to this country, and scores of varieties have been developed. In the last report of the horticulturist of the Central Experimental Farm, Ottawa, reference is made to a collection of 177 varieties in the arboretum at that place, and a list is given of twenty-five of the best, including single and double varieties, ranging in color from pure white, through pinks and reds, to lilac and purple.

The Japanese lilac (Syringa Japonica) belongs to a species not so well known as most

other varieties, yet it is well worthy of a place in any collection. It is about the only one of the lilacs which may be said to form a real tree, as it sometimes attains a height of twenty-five or thirty feet. Although it comes from Japan, it is quite hardy in this country and is not affected by the mildew to which the common varieties are more or less subject. It is of an erect habit of growth and does not branch out as freely as other varieties, hence does not make so good a specimen plant, but is best suited for background in the border, where its more or less naked branches may be hidden

with foliage of other shrubs. The bloom of the Japanese lilac is quite distinct from all others, being of a creamy yel-

low color and produced in large, loose panicles often a foot or more in length and nearly as much in breadth. It is also the latest of all varieties to bloom, being at its best usually about the first of July. With a good selection of varieties of the Syringa vulgaris type, which usually begin to bloom about the 24th of May, followed by the S. Josykoea and S. Japonica, a succession of bloom may be maintained throughout the whole month of June to the first week in July first week in July.

#### PLANTING RASPBERRIES

By Charles F. Sprott, Burnaby Lake, B.C., in the Canadian Horticulturist

To make the cultivation of the raspberry profitable occupation, the fruit grower who intending to grow this gruit for the market hould be careful that the land he intends planting on is a deep, rich, moisture retaining soil. Land that will grow good crops of potatoes or corn will grow a profitable crop of raspberries. It is essential, also, that the land be thoroughly underdrained. The land should be plowed in the fall at least eight inches deep and well worked in the spring before planting is done. It should be fine and pliable.

When the land is in this stage it should be marked out-the rows being north and south, if possible, as the crops ripen easier. A good way to mark it out is to stretch a line across the field and with a marker lay off the field with rows six feet apart.

The marker can be made with a two by six-inch scantling having two pieces one by four nailed on at right angles on the flat side of the scantling, the points being six feet apart. Alongside these pieces, nail on two one four by six feet on the edge of the two by six scantling with a cross piece nailed to them to draw by and brace these two pieces of one by four by six from the other side of the two six scantling.

Pull the marker carefully up the line and return down, having the point in the last made line. Great care must be taken to keep these rows perfectly straight. Then plow up these rows, having the land side of the plow on this mark, and plow about five inches deep. When this is done, planting can commence, the plants being placed in the furrow thirty inches apart. The roots should be spread out and a little fine soil pulled into the furrow and pressed firmly around them. When all the planting is done, the remaining earth can be more quickly put into the furrow with a prong hoe, firming it around each plant.

The grower should be very careful to plant only strong, healthy suckers of those varieties which grow successfully in his neighborhood. To a large extent the success of the plantation depends on the quality of the plants that are planted. These should be cut down just above the ground the free plants. the ground the first season to stop them from fruiting, but just high enough to allow the man cultivating them to see them. The cultivator must be kept going through this patch to keep weeds from growing and so conserve

It is quite possible to grow some other crop in the centre of the six-foot rows and yet be able to cultivate, and it will help pay for the work of cultivating the raspberries which bring nothing in that year. Potatoes, turnips or carrots will do well on good land, and the raspberries should make good growth.

### HOW TO GROW GOOD CELERY

By F. W. Hack, Norwood, Manitoba, in the Canadian Horticulturist

When the time approaches for planting celery in the field, the plants should be gradually hardened by exposure to the weather. Celery plants when properly hardened will be unharmed by a moderate frost, and may be planted out from the middle of May to the because of the plant of ginning of June. The land should be well cul-

tivated and finely pulverized.

If possible, dull or rainy weather should be chosen for planting. The plant bed should be well watered before removing the plants and care must be taken to avoid injuring the roots. Shallow pans are convenient for handling the plants, and in hot, dry weather a little water in the pans will prevent wilting. If the weather is dull and the soil is moist, it will not be necessary to water the plants when set out; but if it is hot and dry, a good watering should be given and as soon as the ground is dry the surface should be stirred to prevent baking. Watering the young plants is apt to pack the soil too tightly around their roots and should not be done unless necessary.

Celery should be planted in rows three to five feet wide and four to six inches apart in the row. The width between the rows is to give room for cultivation and for soil to earth up with; four feet will be found the most con-

Some growers plant in double rows. This is not advisable, except in very rich soil and where water can be artificially applied.

The old method of growing celery in nches is not now generally used. The labor of preparing the trenches and the difficulty of cultivation renders this method unprofitable nercially. Where level culture is practiced, the rows should be slightly furrowed, so that the celery when planted should be a few inches below the level of the land. This will

start an upright growth.

Frequent shallow cultivation should be given from the time of planting throughout the growing period. The surface should be well stirred twice a week during dry weather and after a rain as soon as the ground is dry. When the roots of the celery begin to spread, cultivation should be shallow near the plants.

When the plants have been out two or three weeks they must be gone over carefully

by hand, the soil around and between them has been added, and leave to dry. Water insened and all weeds removed. The plants must never be allowed to spread over the surface of the ground, and enough soil must be drawn up around them to secure an upright. compact growth. This process should be re-peated as growth continues. Do not let any soil fall into the hearts.

When the plants are nearly full grown the earth should be drawn up to half the height of the plant, and one week later nearly to the top of the leaves. The blanching process will take

from ten to thirty days, according to variety.

Celery that is intended for storing should be planted a little later and not moulded up so much. It will keep better if not quite fully matured when dug, and if green will blanch in storage.

## A WONDERFUL PRODUCER OF HU-MAN FOOD

A Holstein cow owned by the Dairy De-partment of the University of Missouri, in one year produced more human food in her milk than is contained in the complete carcasses of four steers weighing 1,250 pounds each. This statement, impossible as it seems, is not only true, but does not even do full justice to the cow. The solids in the milk which are completely digested and used by the body are counted against the entire carcass of the steer, which is only in part edible.

The cow that performed this feat of prolucing the equivalent of four steers is Princess Carlotta. In the year she produced 18,405 pounds of milk. Below is given the amount of proteids, fat, sugar and ash contained in this milk, and the amount of the same substances found by Dr. P. F. Trowbridge, in an analysis made of the carcass of a fat steer weighing

1,250 honnus		
	18,405 lbs. milk.	1,250-lb. steer
Proteid	555 lbs.	172 lbs.
Fat	618 lbs.	333 lbs.
Sugar	920 lbs	lbs.
Ash		43 lbs.
All the same of the	- Designation of the second	Carlo Agenta Carlo

Totals ...... 2,218 lbs. 548 lbs. The total amount of dry matter in the milk was 2,218 pounds, all of which is edible and di-

gestible. The steer, with a live weight of 1,250 bounds, contained 5 per cent of water in the carcass, leaving a total of 548 pounds of dry matter. In this dry matter of the steer is in-cluded hair and hide, bones and tendons, organs of digestion and respiration; in fact, the entire animal, a considerable portion of which is not edible. The analysis of the steer's carcass was made from animals taken after grinding up together one half of the complete carcass, and is not in any sense an estimation of the composition of the carcass.

Princess Carlotta produced proteids suffi-cient for more than three steers; nearly fat enough for two; ash enough to build the skele-ton for three, and, in addition, produced 920 pounds of milk sugar, worth as much per pound for food as ordinary sugar.

These figures indicate the remarkable of

These figures indicate the remarkable efficiency of the cow as a producer of human food. It is because of this economical use of food that the dairy cow, and not the steer, is kept on high-priced lands. When land is cheap, and feed abundant, the meat-producing animals predominate, but when the land becomes high in value and feed expensive, the farmer turns to the dairy cow.—C. H. Eckles, Prof. Dairy Husbandry, University of Mis-

### REMOVING STAINS FROM EGGS

It is difficult to remove stains from eggs so effectually that no trace of the objectionable stain may be detected, but a British ex-change offers a number of methods which may be employed, it is said, to remove dirt from the shell, without, as far as possible, destroying the "bloom" generally possessed by newly-laid eggs. We cannot vouch for the efficacy of the treatments suggested, and do not advocate them, except by way of trial. Prof. W. R. Graham, to whom we have submitted the suggestions tells us that he intends to try them. He would consider them worth a trial, especially the first mentioned. "The prescription looks good," he adds, "if it does not flavor the eggs." The methods are as follows:

1.- Eggs washed in a solution made from quarter ounce of ammonia and one pint of water are superior in appearance to ordinary new-laid eggs. White eggs become snowwhite, and tinted eggs are brought to an even, spotless, clean shade that makes them most attractive. The use of ammonia is not objectionable it does not penetrate the shell, nor

does it leave any odor. 2.-Wash with water and rub with a piece of flannel. After this, a mixture of one-fourth of a cup of salt to one-fourth cup of vinegar, should be rubbed over the shell briskly. Should the stain be a deep and obstinate one, it may be removed by rubbing with a little dry and coarse salt. Tepid water should be poured over them to wash off the salt, etc., after which they will be equal those in appearance which are taken from the nest in a clean condition.

3.-Wash the eggs till free from stain in -warm water, with a small portion of soap added, and dry; let them lie in unskimmed milk for a few minutes, then wipe dry with a soft cloth; a disused silk handkerchief is the best for the purpose. The above method can also be pursued if the eggs are desired for

4.—Take a clean, coarse rag, slightly moisten, dip in common salt, rub the stain until it entirely disappears, wash in warm water, and dry on soft cloth.

5-Wash in tepid water, and then pass through warm water to which a little glycerine

varably removes the bloom-except on some brown eggs-but glycerine will replace it.

6.—Steep in buttermilk for 24 hours, afterwards washing and wiping carefully.
7.—Wash them in warm water to which some vinegar has been added—a tablespoonful to a pint of water—then leave to dry. This will not remove the bloom, and should be done as soon after being laid as possible. Should they be required for show purposes, rub with a soft duster

#### ALFALFA COMPETITION IN SASKAT-CHEWAN

Saskatchewan is to have a competition in alfalfa-growing which promises to be one of the biggest contests known to Canadian agriculture. The growing of this leguminous crop is to be encouraged by an offer of cash prizes aggregating \$6,300, as well as trophies and

The movement was inaugurated at the Agricultural Societies' Convention, held at Regina in January last, when it was decided that a prize of \$1,000 would be awarded for the best ten-acre field of alfalfa in Saskatchewan in 1914. Recently, William Mackenzie, president of the Canadian Northern Railway, offered to provide the required \$1,000, and, needless to say, his offer was accepted immediately. But the competition has outgrown the first plan; ten times \$1,000 would hardly be more than sufficient to finance the competition as now planned.

The approved plan provides for the division of the province into four parts. Prizes will be offered for the six best fields of alfalfa in each of the districts. The prizes will be as follows: First, \$500; second, \$400; third, \$300; fourth, \$200; fifth, \$100; sixth, \$75. The first-prize field in each of the four districts will be scored for the championship, which will consist of a magnificent silver trophy.

All contestants must be paid-up members of the nearest agricultural society. Entry must be made before August 1st, 1913, and the crop must have been sown not later than the season of 1912. The entry fee has been fixed at the nominal sum of \$5.00, and must accompany the entry, which is to be sent to the director of extension work, previous to the date specified. The field of alfalfa must consist of not less than ten acres, but if the size of the plot exceeds the minimum, the whole field will be scored. No artificially irrigated crop will be eligible for entry in the competition

#### HOW TO SPRAY THOROUGHLY

A good many orchard-owners will spray this year for the first time. Barring, of course, exceptionally disastrous conditions as to weather or markets, the work will be well repaid; in many cases it will be repaid two or three times over. But unless one certain condition is observed there will be many disappointments at the imperfect results achieved. That certain condition is thoroughness. If you want to fence chickens out of a garden, you don't stretch netting along 20 panels, leaving gaps here and there. You fence in the whole enclosure. So in spraying, to destroy the scab spores, the codling moth, and the numerous other fungi and insects, spray the whole tree, covering every twig, leaf and embryo fruit. Imperfect spraying will leave gaps through which much injury will be accomplished, and, in the case of the codling moth, will allow enough larvae to mature to form a destructive d brood (that is, of course, in sec where there are two breeds in a season). The difference between ordinary and thorough work may easily mean the equivalent of the difference between No. 1 and No. 2 grade on half the crop. On a hundred-barrel crop that difference in grading would some to from twenty-five to thirty-five dollars per acre, the amount depending on the spread in price be-tween the two grades. This estimate is not excessive, because thorough spraying will not only put more apples into the No. 1 grade, but will save many from being discarded as culls.

It is so easy for a beginner to slight the work a little. Because the tree looks wet from where he stands, he is inclined to think it is all well sprayed, when careful examination of the twigs would convince him to the contrary. Here are a few rules that every beginner should follow scrupulously:

I. Follow directions implicitly as to materials, proportions, and time of application. Consult the spray calendar for this.

2. In the case of average-sized trees, say, twenty-five years old, one barrel of mixture should be put on every ten or twelve trees at the first spraying, and at the one just as the blossoms fall one barrel should not be expected to cover more than eight trees that have bloomed. Those which did not bloom will do with less, but ought not to be skipped.

3. Spray every tree from eight angles-four angles from each side. By so doing, you cover every side of every twig in every part of the

4. For the most important spray, just after the blossoms fall, drench the tree thoroughly, spraying from above, using either a tower or a very long bamboo rod, and forcing the spray downwards into the blossom end of each fruit. An elbow at the end of the rod to which the nozzle is attached will enable you to do this.

5. Put this last-mentioned spray on immediately after the petals fall, or even while the last ones are dropping. Ten days after that will generally be too late to spray effectively for coddling moth.

6. Thoroughly control the first brood of the codling moth and there will be little danger of the second, unless there is an unsprayed neighboring orchard near-by. In this case, a late spraying may be necessary for the second breed.—Farmers' Advocate.