THE EVENING JOURNAL	CONTRACTION VALUES		URNAL, ST. CATHARINES. ONT		TUESDAY' MAY 6
	GRAIN MIXTURE VALUES	HINTS ON GE ING MILK	PLANT POTATOES NOW		A CONTRACT OF A
livered, per year\$5.00 livered, per week	AL NUL THE ALL B		and the state and the second second second		A POLITY MALE AND THE
mail in Canada or United	Gats 34 Lbs., Barley 48 Lbs, the	Three Essentials in Cooling Ex.	Increased Vield Secured by Hill-		
States (per year) 3.00	Best Combination.	plai :d.	ing Them.		TAT OTHER TOP
gle copies	By Opening Surface to Rains, Many	The second s	Good Combs Beekeeper's Asset-	NEW TRA	IN SERVICE
PHONE (Business Office) 59	Dollars May Be Made by In-	Make That Spring on Your Farm a Profit Question - It Should Be	Best Are Always Produced During	TARAA THE	
Toronto Special Representative	creased Crops — Full Directions Given Regarding Starting Early	Enlarged, Cleaned Out Well and	Heavy Honey Flow-Best of Care Should Be Taken of New Combs.		
Smallpiece, J. P., 32 Church St.	Celery.	Cribbed In An Efficient Way,		MEANS	YOU CAN GET
Toronto, Ont.	(Contributed by Ontario Department of	(Contributed b) Ontario Department of Agriculture, Teronte.)	Contributed by Ontario Department of Agriculture, Toronte.)		
WILL BE SPENT ANYWAY.	▲ LARGE amount of experi-	ACTERIA in larger or smaller	XTENSIVE experimental work, under ordinary. conditions,		Globe
in practice it works one almost in-	A mental work has been con-	numbers are always present in freshly drawn milk. At	has shown that it is a good	1141	AAAA
lably that no matter how much	ducted at the Ontario Agri- cultural College in testing	temperatures between 80c	plan to use good-sized seed potatoes, and to cut them into		VILU UK
assessment of a municipality is sed, and the revenue thereby in-	grains both singly and in combination	deg. F. and 98 d.g. F. (blood heat)	pieces of from one to two ounces		
ased, the extra money is always	for the production of grain. The results of experiments indicate that	they grow and mulliply rapidly, causing the milk to become quickly	in weight, and having two, three or		
at. It has been so in St. Cathar-	there is practically no advantage in	spoiled. As the temperature falls	four eyes in each piece. It is an ex- cellent plan to throw the freshly-cut	The second se	
s and will no doubt continue, to	growing in combination two or more varieties of grain of the same class.	below 60 deg. 9. the bricteria become less active, the changes caused by	pieces in finely ground land plaster		AL
A few years ago, it will be recall-	Quite decided advantages, however,	them are less marked, so the milk keeps sweet and in good condition	or sypsum and to plant the sets im- mediately after cutting. The best re-	And the second second	A state of the sta
, a campaign was concucted here advance the assessment. It was	have been obtained from certain	for a longer time. Growth of bacteria in milk in 24	turns have been obtained by planting	AIL T A	Air al MI
gued that much of the property was	compinations of grain of different classes.	hours (136,000 per c.c. when freship	the sets in rows about 28 inches apart and leaving the sets singly	All Intern	ational News
tting off too easily and that if the	In an experiment which extended	drawn): Bacteria Per C.C.	from 12 to 15 inches apart in the		T. T. M. M. T. T.
essments were increased the city ald reduce the tax rate. The in-	over a period of five years in which oats, barley, spring wheat and peas	(20 drops) Temp held. after 24 hours.	rows. In the average of seven years' experiments it was found in planting		-AND
ease was made and made to such an	were grown separately and all the	40 deg. F 280,000	the notatoes one three, five and		•
tent that from eight and nine mil-	different combination which could be obtained by having two, three and	60 deg. F 24,600,000	seven inches deep that the highest average results were obtained from	The Mak	ing of Peace"
ns the total assessment was ad- nced to last year fifteen millions.	four grains in each mixture, it was	The above table shows how low temperatures check bacterial multi-	planting three inches, and the second highest from planting five inches in		
d yet how has the whole process	found that in about ninety per cent.	plication in milk. This is the scien- tific fact upon which the practice of	depth. Under average conditions it is usually wise to plant about four	more adequately and	authoratively reported in The
rked out? The fact is that the	of the experiments the mixed grains gave a greater yield per acre than	milk conling is founded.	inches but the depth of planting would, of course, depend consider-		papers outside of New York
the highest now it has ever been.	the same grains when grown separ- ately. Of the different combinations;	In practice a dairyman should bear in mind three things in connection	ably upon the quality and the con-		a, because of the complete cable
Furthermore, the money raised by	oats and barley came at the head	cool milk with as little delay as pos-	I sandy loam. the depth of planting		by Canada's National News-
fincrease in both rate and assess-	of the list, giving slightly over two hundred pounds of grain per acre	sible after it comes from the cow. Second—cool milk to as low a tem-	may be deeper than in the case of a beavy damp soil.		and a score of the world's great-
other so that so far as borrowing	more than when either one was	nerature as possible. say somewhere	In experiments extending over a		at The Globe in a class by itself
wers is concerned the city has only margin of \$274,000 against which	It is important to use in combin- ation varieties which will grow satis-	between 40 deg. F. and 50' deg. F. Third-cool milk with as little con-	that about four bushels per acre in-		ne same extensive organization
but \$60,000 is to be charged as last		tamination as possible from outside	crease has been obtained from hilling the potatoes in comparison with		readers the last word daily on
r's percentage of local improve-	as the OAC No 21 barley and the	state many homelanis attended to by	level cultivation.—Dr. C. A. Zavitz, O. A. College, Guelph.		on, besides full reports of every
nts. The Public School Board nt most of what is left.	Daubeney, Alaska or O.A.C. No. 3	all deinion a marked improvement in	Good Combs the Beekeeper's Asset.	big domestic event.	, posidos tan reports or every
t will be seen that while in theory		the general quality of our milk sup- plies would be noticeable right away. The quickest way to cool milk is	An asset to the extracted honey	big domestic event.	Carl and the same the second
raising of assessment looks good,	barley used for five years in experi- mental work it was found that the	to run it over some form of tubula:	producer is combs, good combs and plenty of combs. It is sometimes a	You Can Depend Upon Ge	tting the News in The Globe and the
fact it is only another way of tak- more money out of the people's	greatest returns were obtained by us	or surface cooler, pail by pail, im-	problem to obtain and maintain a unicient stock, especially if the	News You Get in Th	e Globe You Can Depend Upon
kets for expenditures which could	ing one bushel, by weight, of each or a mixture of 84 pounds (34 pounds	In this way milk may be rapidly cooled to within two or three degrees	uniary is being enlarged. Moreover.	. The Rate Fielder Man and	and a man and and and and a set of
lessened. A natural increase in the assessmen	of oats and 48 pounds of barle;). -Dr. C. A. Zavitz, O. A. College,	of the temperature of the water used.	here are several important problems associated. Fundimentally, good	1. <u> </u>	o Bill of the second se
a growing city is inevitable, but	Gueiph.	The objections to this method are the extra work involved in washing	sombs are obtainable only when 'uilt on full sheets of wire foundation.		O
should not be unduly promoted,	Open Your Surface Drains.	the cooler twice a day, the difficulty of keeping it properly clean, and the	Such combs will endure; naturally built combs will not stand the wear	Exclusive Cable	OW! Special Weekly
we venture the opinion that no tter how much revenue is raised	Drainage—either surface or under- ground—is essential if farming is to	danger of contaminating the milk	and tear of repeated honey extrac-		
ne means will be devised of spend-	be profitable. With the dearth of ditching machinery, the depleted	the cooler is used in a clean and	tion. Beside being weak and likely to break out of the frames, natural-	Service you ca	n get The Globe
The Andrews	labour market and the increased cost	The other alternative is to place	ly drawn combs usually contain drone cells to some extent, if not in		newsdealers in Industrial Page
ETTING THEIR JOBS BACK.	of underdraining, progress is re- tarded somewhat. Everything, how-	the cans of milk in a tank of running cold water at the earliest opportunity,	excess. The presence of drone cells in combs, used either in the brood		
and the second s	ever, has been done which prevailing conditions permit. Yet forty per-	or in an insulated tank of water into	chamber or in extracting supers. is a source of continued disadvantage.	Contraction of the second state of the	CATHARINES Farm Page
The Winnipeg Free Press, discus- g the employment of returned	cent (40%) of Ontario is in urgent	If the milk is stirred once every ten	Drone cells in combs are always	New York Times	BY 9 A. M. Homemakers Page
g the employment of returned n, says:	need of drainage. The underdrainage of so much cannot be accomplished	minutes during the first hour, cool- ing will take place more rapidly than	costly. They may cost swarms; they may dampen the honey-storing in-	Dhile delahia	9 A. M. nomenaters rage
One of the lrst essentials in re-	which renders timely service, even	where milk is left unstirred. If cold running water is not available all	stincts (bees are adverse to the stor- ing of honey in drone cells, until	and a second state and a	daily Waxawia Data
struction is to get every returned dier into the ranks of the produc-	though only of temporary duration, must be taken advantage of.	summer, enough ice should be put up during the winter to ensure the	there is no other space available)		tionately early
or into permanent profitable em-	Surface draining must be resorted to. Several lines will be necessary.	milt being brought to a sufficiently	if the drone cells are in the super, their presence induces the queen to	in all	
	to, percial much will be necessary.		leave the brood chamber. It is a	Tramin	on-Niagara Falls Peter McArthur
wment at the earliest possible mo- int. Every inducement should be	Indeed, if the majority of farmers would leave all "finishing" furrows	portions of the year. The importance of prompt and	maxim to have only combs of all worker cells reinforced with wire; to	connect	ion .

offered to the men not to put off the beginning which will have to be made sooner or later with regular civilian work Especially ought they to be en-

couraged to settle down again at the work to which they have been accustomed, and in this direction the responsibility rests with the employers to see that every assistance is forthcoming. Reinstatement of enlisted men was generally implied, if not specifically promised at the time of their enlistment.

PRINTERS LEAD.

The willingness of employers to take back into their employment the men who left them to go overseas is testified to by such announcements as that of the Employing Printers' and Bookbinders! Association which comprises some forty printing establishments in this city. The members of this Association have publicly pledged themselves to reinstate all enlisted employes capabl of following their occupations, and to give a full and fair trial to those who, having suffered some disability in the war, are doubtful of their capabilities. It will be necessary for the former employees of these firms merely to make application for their old jobs in order to get them back or find others more suitable to them.

The example of the Printers' Association will doubtless be followed by all the other trades and professions

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cades.

connect them by opening up cross channels through the lower-lying sufficiently appreciated by many milk producers. There is no cheaper and parts of the field-cleaning out all simpler method by which milk quality may be improved.—T. H. Lund, B.S.A., O. A. College, Guelph. the furrows thus traversed—a system

would be formed whereby the water could be carried to outlets quickly, emciently and satisfactorily in the early spring. Not alone to level fields or farms

does this apply. Large areas of On-tario are quite rolling, hence naturally drained. Yet, a small open ditch or deep furrow will pay for the trouble necessary to make a channel by the greater ease with which water can escape, thus permitting quicker disposal of the same, hence hastening

the drying of the land. These surface drains should be

opened at least once per year. The best time to do so is in the late autumn after the fall work is done. Labour can be obtained then with less difficulty and at less cost. The work may be done by hand or by the use of a team if water does not Surface draining, however, is not recommended to take the place of

tiling .- Thos. Cooper, B.S.A., O. A. College, Guelph.

Starting Early Celery.

The starting of early celery should ediately as the seed is slow in germination; requiring about four weeks before ready for the first transplanting. The seed should be sown in flats in a soil very sandy in nature. This soil is pressed down about 1/2 an inch in the box and then the celery is sown broadcast over it." The box is then watered through bur-lap and is left covered with burlap or brown paper until the seed germinates. When the plants are showing

paper as stated before.

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two or three leaves they are trans-planted into flats, 2 inches each way in soil that is sandy in nature but well-filled with good manure and commercial fertilizer, such of a ni-trogeneous nature. Good fertilizer is

the water can be piped down under necessary at this stage so that the plants will not receive any check. The plants should be thoroughly the first line to storage tanks in the buildings. From the tanks the water sprayer with Bordeaux Mixture when they first break into third or true leaf, so that they will be kept free from blight, and every week after say 30 or 40 feet of the spring, a

general.

Serviceable.

being set in the field. Another method in use among growers is that of sowing in hot beds. hydraulic ram may be installed for pumping the water of a spring to the house and barns. Usually it is pump-The seed is planted in rows about 4 ed into a storage tank in the attic of inches apart; in making these rows they take a piece of wood about an inch wide and press it down on the the house or loft of barn, and from these gravitates to the various plumbing fixtures in the house and the soil making a furrow about ½ of an inch deep in which the seed is sown. It is then covered with burlap or Celery to germinate properly should be kept at a temperature of 70 degrees until the young plants Guelph

are essential and economical. The best combs are always pro uced during a honey flow, yes, when there is a surplus coming in; good combs may be produced in the earlier part of the season, just prior to the

Making the Farm Spring More cropping season; yet, regardless of season, the best of combs are obtain able only on strong colonies. Fortunately a great many farmers .Conversely, weak colonies, without the stimulation of the honey flow, of Canada can boast of a good spring

of water on their farms. In some cases it is the only reliable and pefail to draw out the foundation even-ly and fully: holes may even be gnawed in the foundations, which rennial source of water, and when this is the case it usually receives holes, when built in, will probably be filled with drone cells. With care, proper care. Probably, however, in general, the spring is a secondary consideration as a water supply, parframes of full foundation, to be drawn out, may be supplied alter-nately with combs of brood or honey. ticularly domestic, and consequently is let "run wild" more or less, and is not, therefore, rendering the ser-Mor ver, the tendency is for bees vice it might if it were properly equipped. The object of this short article is to make a few suggestions to bulge the old combs, and to correspond, only partially draw out the foundation of the new comb, perhaps leaving the corners open. The best for the improvement of springs in results are usual when several frames with foundation are grouped

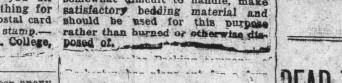
In the first place the spring should be enlarged, deepened and cleaned out well and then cribbed up in some in one side of the hive, or a full super given. In order to induce the attaching of the comb to the bottom bar, new combs may be drawn out efficient way. Probably the best method is to get a large concrete or sewer pipe tile or two, about 21/2 feet in diameter, and put them down in the spring, cementing the joints well. Put an overflow pipe through in the super, over a powerful colony and during a honey flow.

Having acquired new combs, good care should be taken of them. If they are intended for extracted honey production, they should be kept the wall of the upper tile close to the high water mark of the spring, and connect the overflow pipe to a tile drain that leads down to a good apart from the brood nest, not allowing brood to be reared in them. outlet some distance away. If it is not connected to a drain the open Combs darkened with brood rearing are not considered as wholes honey production as are virgin (new) end should be screened. If the spring sombs. Furthermore it is considered be in the pasture it should be fenc-ed in and the overflow pipe referred will darken and hence deteriorate the light grades of honey. One gento extended horizontally to a trough outside the fence. The top should be provided with a tight cover made of concrete or heavy plank. eration of brood in a comb may not injure it for light honey cropping; it

is thought by some to toughen and strengthen the comb, yet the more The spring becomes particularly serviceable if it happens to be located with virgin combs for the supers. on an elevation considerably greater than the house and barns, for then These choice extracting combs are a valuable asset. Preserved from year to year, they should endure. Although bee labor has not advanced in price, flows by gravity to the points of service. Or the supply is great enough and a fall of a few feet can bee labor has not advanced in price, all bee supplies are increasingly cost-ly, hence good combs are to-day a say 30 or 40 feet of the spring, a M. Gates, O. A. College, Guelph.

Extravagant Use of Straw.

The use of at least a limited amount of bedding for beef cattle is advisable, but the extravagant use of straw, coarse hays, etc., for this purpose should be discouraged. All such troughs and drinking basins in the stables. If you are particularly in-terested in this subject of the farm spring and how to make it more serviceable write the Department of Agriculture, Toronto, for a copy of Bulletin 267, which tells you all somewhat difficult to handle, make fered them in the hay rack and that somewhat difficult to handle, make about it. It costs you nothing for satisfactory bedding material and the information except a postal card should be used for this purpose and a two-cent postage stamp.— R. R. Graham, B.S.A., O. A. College, posed of.



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