Cheese Department
Makers are invited to send contributions to
this department, to ask questions on matters
relating to cheesensking and to suggest subjects for discussion. Address your letters to
The Cheese Maker's Department.

#### Kasasasasasasasasasasa Outlook for the Dairy Industry

The Dairy Instructors for the Province of Ontario, have reported upon conditions affecting the industry, and the following general statements are compiled therefrom:

compiled therefrom:

The make of cheese up to July 1st is, on the whole, less than for the ame period in 1907. The make in some few factories is practically the same as last year. The cheese factories in two sections of Eastern Ontario, and six sections in Western Ontario, show an increase, but a major-ity of districts report a decided falling off. The average would appear to be about 5 per cent. lighter than 1907.

The sanitary equipments of factories and creaments.

ies and creameries are improving. The owners and makers appear to be much more ready and willing to cooperate and carry out the suggestions that are made to them by the staff of instructors. Without exception every instructor reports an improvement in the factories under his jurisdiction.

#### IMPROVEMENT IN MILK

The condition of the milk, supplied by the patrons, also shows a continued improvement, and in some cases a marked improvement. There are some careless patrons whose perstill some careless partitions to in-sistent carelessness continues to injure the quality of the make. The in-structors, however, report that there is a decided improvement in the attitude of the patrons towards the work of instruction. The farmers welcome visits from the Instructors, and are much more ready to carry out im-provements and methods which they may suggest. Without exception, the Instructors report to this effect.

There seems to be an increase in the average of corn grown, especially that grown for silage purposes. Two or three instructors have noted that where a speaker was sent to the annual meeting, of the patrons of a cheese factory, there has been a marked improvement in the milk sup-ply and in the methods of caring for and feeding of the cattle.

Makers are shipping less cheese in the green state than formerly, but im-provement in this particular feature of the industry seems to be less mark-ed than in some of the others. Nine of the 24 instructors in Eastern Ontario report improvement

#### THE CROP OUTLOOK

Regarding the crop outlook, as observed by Instructors, it is safe to say that the hay crop in Western Ontario will be better than in 1007, and the same is true for most sections of Eastern Ontario. Some sections, however, are reported to be lighter than

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crop. Crops, other than hay, are re-ported to be generally lighter than the average, but nearly every instructor reports that doubtless they will exceed their present promise if rain comes before it is too late. Many localities of the province have had a number of showers since the receipt of these reports, and no doubt the crops have been much benefitted, and may yet come up to the average.

The growing of soiling crops supplement pasture is becoming more general, but the increase is not very marked. Some sections report that farmers follow this practice, more report that only a few are doing so, while in about one-sixth of the

dairy sections none at all are grown.

Considering the fear which existed in the minds of so many dairy farmers that there would be a decided shortage in feed to carry the stock through the winter of 1907 and 1908, and the number of cattle which were sent to market in consequence of this fear, the make of cheese up to July 1st exceedingly gratifying; and with the stock and crop outlook, we have every reason to believe that this great in-dustry of our province will suffer no serious set-back because of conditions which existed in 1907. G. A. Putnam

Director of Dairy Instruction for On-

#### Bad Flavors in Cheese

Will green barley give a flavor to milk! If so, will it go off in the curing of the cheese I I have been troubled with one patron's milk being off flavor and the feeding of green bar-ley was the only way I could account for it. -H. J. Walker.

When cows are fed large doses of any green feed such as barley and clover, at the start, the milk is likely to have an objectionable flavor. But there should be no injurious result if fed in small quantities at the start and in moderation afterwards. Cows should never be let gorge themselves on green feed of any kind. They will not over-eat after they become accustomed to it. When first turned on to green clover or any green feed, and allowed to gorge themselves, more than the milk is likely to be

The effect of bad flavors on the cheese due to too much green feed is likely to be permanently injurinot likely to be permanently injuri-ous to the cheese. A thorough aera-tion of the milk before cooling and a good stirring of the curds should drive most of such flavors off. If the bad flavor is very pronounced and per-sistent we are inclined to believe it may be due to some other cause than may be due to some other cause than the feeding of green barley. Does the patron keep his milk in a place where the air is pure? Is the milking done in a cleanly manner? Are the milking utensils thoroughly washed and scald-Is the milk can properly cleaned after the sour whey is dumped out? The maker or someone else should inquire into these matters.

### Garlic Flavor in Milk

Prof. J. C. Kendall, an American dairy authority, has been making an investigation of the garlic odor in milk and cream. Cows, when turned out to pasture in the spring, eat the tender young sprouts of this plant with relish, and the result is most dis-

the average, but on the whole the hay crop will not only exceed 1907, a certain extent, by pasteruization and but will be away above the average quick cooling, these are not sufficient. quick cooling, these are not sufficient-

alk with garlic flavor saleable. In an hour or two after the animal as eaten garlic it is noticeable in the milk. In a short time the entire sys-tem is permeated by the pungent odor. It will damage the sale of the carcass of animals slaughtered, while on pasture infested by garlic. The only effective way found to overcome the effects of this odor was to turn the cows on the pasture for not more than hours immediately after milking, and keep them from access to garlic until the following milking. Prof. Kendall found no trouble from it by following this plan. Some follow the plan of keeping

Some follow the plan of keeping cows out of the pasture infected with garlic for a couple of hours before milking. But this was found not to be effective. The only effective plan is to see to it that the cows have their feed containing garlic before any considerable amount of milk has been

The safe plan with this and other foods that flavor the milk, such as turnips, is not to feed them at all to milch cows. In the fall of the year many dairy sections in Canada are troubled with the turnip flavor in milk. While this flavor may be got milk. While this navor may be gor-rid off by feeding turnips immediate-ly after milking, it is never a safe proposition to advocate it. The paiproposition to advocate it. The pat-ron is sure to take advantage of it, and feed turnips when he should not do so. There are other foods for milch cows just as good and cheap that do not flavor the milk. Then why feed anything that will endanger the quality of the product?

#### Keep Milk in Pure Atmosphere

The value of keeping milk in a pure atmosphere is shown by a test reported in Hoard's Dairyman. Two well kept stables were selected, one being provided with windows in the sides and in the roof besides King's system of ventilation; the other a basement stable with only a few windows in the sides. One hundred and eight samples of milk were selected and put into sterilized glass jars, then kept in sanitary surroundings for several days. At regular intervals the developments of odors and flavors was noted with the following results:

#### WELL VENTILATED

	Odor		Flavor					
		Total		Tota				
Hours Cheesy Sour Barny Ensilage Stale Clean	24 38 49 60 72 2 2 5 10 1 3 8 4 3 3 3 15 13 10 5 4 7 6 4	19 16 9 47	24 36 48 69 72 1 7 11 15 3 1 14 15 11 6 1 1 7 6 4	3 34 4 47 2 17				

POORLY VENTILATED

	1	Odor					Flavor					
	I		П		d	Total					1	Tota
Hours Cheesy Sour Barny Ensilage	Г		48 1 16	11	72 9 6 6	10 18 55	16		3		16	28 56
Stale	1	4 0	2	1		7 3	94.0	2	2			6 2

The ill effects of poor ventilation are well shown in the table as the with relish, and the result is most disastrous to the milk and butter supply.
The odor is closely associated with
the butter-fat, while interest the butter-fat, while the control of th objectionable qualities are

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stables before it could be removed to more sanitary surroundings, it furnishes a valuable object lesson on the effect of unsanitary any kind have on the odor and flavor of milk. Even in summer time, when cows are not stabled, they should be milked where the atmosphere is pure and where there is no danger of conand where there is no danger of con-tamination by undesirable bacteria Milk should be kept away from the stables or barnyard and also the whey or swill barrel. Often the milk stand is located near the barn so as to be convenient and the whey barrel is kept close by for the same reason The milk is sure to be contaminated amid such surroundings. Patrons of cheese-factories cannot be too carecheese-factories cannot be too careful on this point. It is just as easy to have milk kept in a pure atmosphere as in an impure one.

In cleaning the separator be sure and see that the parts are dried rapidly so as to prevent their rusting. Still the drying is better not done with a cloth, as this will leave many with a cloff, as this will leave many bacteria to work upon the next lot of cream. The best way is to wash the parts in luke-warm water, then scald and heat by immersing for a few minutes in boiling water, then put in the sun to dry. The heated metal will very soon dry off.

Keep the whey tank clean

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