The Pairy.

American Dairymen's Association.

The annual convention of the above Association was held at Utica, N. Y., beginning on the 12th of January and continuing during that and the two following days. The attendance was, as usual, large and composed of representative dairymen from all parts of the continent mainly, however, from the great dairy region of Central New York. Compared with previous conventions of a similar kind the number of papers read was not so large, but the contents of each were considerably greater, whilst the variety of information adduced as the result of many practical experiments tended unmistakably to show the progress that is being made in this most important depart ment of husbandry.

The first question discussed was that of milk, its quan tity and quality,-in which the Hon. J. Shull of Ilion. Mr. Moon, J. M. Joslyn and Prof. Arnold took part. All these gentlemen agreed that the quality of milk is invariably due to the nature of the food. Hon, Mr. Shull, however, asserted from his own experience that overfeeding, or feeding of too rich a nature, reduces the milk both in qual ity and quantity. Corn meal, apparently the great staple over there, received a large share of attention, Mr Shull maintaining with reference to it that whilst eleven pounds or under, administered daily to each animal, had a beneficial effect from a dairyman's point of view, a larger quantity of the same material stimulated the system rather to lay on fat, whilst it at the same time tended to produce fever. For old cows, however, he advocated heavy meal feeding, and offered on this theory the following as his experience, taking as his basis a grade cow which when fattened weighed 1,300 lbs.: - Value of an old cow in the fall about \$15; value of milk whilst fattening \$15 or \$16. cost of feed \$61; sale of carcase \$68-the amount of labor expended being offset against the manure gained. Prof. Arnold, on the question of old cows, considered that, after they have been milked for a long time, there is a tendency to turn all food into fat instead of milk.

The subject of 'Curing Rooms' was next discussed, and the necessity of a pure atmosphere with a temperature of from 65° to 75° fully demonstrated:-full milk cheese requiring a lower degree than half-skim or skim cheese It was likewise deemed an important point to have the curing room disconnected from the factory proper to prevent the absorption of odors from whey and other matters. From the Country Gentleman we condense the following continuation of proceedings.

Mr. T. D. Curtis then followed with a paper containing Some Hints. It requires good milk to make good cheese. The milk should contain at least 12 per cent, of fatty, or butyraceous matter, or the cheese will be too dry and not rich enough to cure well. He thought that if oleo-margarine can be worked into the cheese, the cream already in the milk could certainly be retained in the cheese. He objected strongly to skimming. Cheese with plenty of cream in it keeps well, while the skimmed article must be used while new, or it dries up and loses its value Mr Moon said that he had found that cheese partly skimmed cures in thirty days, and is perfect cheese in eight months from the time it is made.

Mr. C. L Sheldon then read a paper on Acidity It re quires much judgment in choose making to determine just when to dip the curd to prevent farther action from the lactic acid developed during coagulation. It has generally been supposed that if exposed to the action of the acid too long, the fats in the curd would be destroyed, and the cheese thereby injured. But he has found that if cheese, which has thus lost flavor, is kept much beyond the usual time of cutting, it will be found rich, meaty and high flavored. Lactic acid, therefore, acts as a conservative force in retarding the ripening of the cheese. He has found out by trial that cheese made when a high degree of acid was developed, could be held much longer in New York market than the ordinary October cheese made with

a low degree of acid.

President Seymour then took occasion to urge upon dairymen the importance of procuring and learning the use of microscopes, as invaluable aids to them in determining the quality of the milk furnished and the product made. He thought that a good entomologist would be of more use to the dairymen and farmers of the State than two door-keepers at each door of the legislative halls.

A paper on Cream, by Dr. E. L. Sturtevant, was then read by the Secretary. Cream is an uneven product, rising in layers, the largest globules at the top, and these make the best butter. The lowest layer of cream is worthless for making fine butter. Milk yielding only 10 per cent. Is store read a paper on Butter and its Preservation. Butter, it chemically extracted from milk and properly put up, will keep indefinitely. The quality of butter than that which gives put up, will keep indefinitely. The quality of butter thought that a good article, and gets a good price. He thought that a good maker would always make good cheese, no matter what salt is used.

F. B. Stone read a paper on Butter and its Preservation. Butter, it chemically extracted from milk and properly put up, will keep indefinitely. The quality of butter the store of the yield of butter. From the fact that cream rises in layers, the butter from shallow setting of milk may be in the churn, if cleanliness has been strictly maintained. No water should be used in working the butter. If the butter has not been freed from casem or butternilk, be guided by actual experience, instead of theory or guess-

as sudden changes of temperature injure the product.

Mr J. M. Joslyn of Cattaraugus then exhibited a choese than sour milk and buttermilk. The choese was rich, fine and of good flavor, and according to Prof. Arnold was well ripened and digestible, and perfectly wholesome. Mr. J. said the choese was made at a temperature of \$9°, less remote being used than for sweet milk, and the choese was made at a temperature of solvents. About three pounds of salt were used to the 100 pounds of curd. He has worked milk that was \$4 hours of butter from 100 pounds of milk and then makes the usual amount of choese. Mr. X. A. Williard spoke the usual amount of choese. Mr. X. A. Williard spoke the usual amount of choese. Mr. X. A. Williard spoke the usual amount of choese. Mr. X. A. Williard spoke the usual amount of choese. Mr. X. A. Williard spoke the usual amount of choese. Mr. X. A. Williard spoke to the peakage is a bacatelle; good butter in a good package will not be "return packages." What pounds of butter from 100 pounds of milk and then makes the usual amount of choese. Mr. X. A. Williard spoke the usual amount of choese. Mr. X. A. Williard spoke to make the process.

L. T. Hawley of Syracuse then read a paper on Munifaction of preserve butter, and that is well understood by a majority of dairymen. The first thing is to solve tows giving rich milk. The next is good pasture and pure water for the cows.

The utmost cleanlines is to have packages will be used in Delaware county, can get his packages on the stream to the process of milk to one pound of butter, and that is well under the form packages will be used in Delaware county. On failt to one pound of butter, and the spackage of the satesty the trade and consumers is a cheap-tion of package in the process of the satesty of the package is the start of the satesty of the package is the spackages of the spackages of the spackages will be used in Delaware county, can get his packages will be used in Delaware county and preserve butter, and the process of the spackages of

of 64°. If cream be kept several days, 50° is the temple rature. After churning, the butter should be washed in brine; this dissolves the casein, and enables it to be washed out readily. After two or three washings, salt with Onondaga Factory Filled Darry Salt, one ounce to the pound. It must not be over-worked. None but perfect juritight firking or tube should be used; white oak is best, the package being well scalded in brine made of the same kind of salt; the butter must be packed solid, and covered with brine. The amount of salt used is determined by the taste of the consumer. It takes 68 to 70 pounds of salt to keep a barrel of pork or beef. It will thus be seen that in butter the salt used cannot preserve it. It is necessary that the butter should be so made and packed that it will at the butter should be so made and packed that it will at the butter should be so made and packed that it will at the butter should be so made and packed that it will at the butter should be so made and packed that it will at the butter should be so made and packed that it will be so made and packed

with orms. The amount of sail seed selectement of the case where laste of the consumer. It takes 65 to 70 pounds of sail to keep a barrel of pork or beef. It will thus be seen that in butter the sail used cannot preserve it. It is necessary that the butter should be so made and packed that it will keep, with or without sailt. Poor butter cannot be made good by use of sailt, nor fine butter injured by goods sait if the butter is taken from the churn before it is gathered, and put into a sieve, and then the butternulk washed out the goung brine on it until it runs off clear and the case in swashed out thoroughly, the butter will keep.

Mr. Olmstead, of Saratogs, said that the best butter he had ever seen was in Italy, and it had no sait in it. Paringson, C.W., enquired of Mr. Havley whether sailt is not needed in butter. Ar. H. said that no difference is noticed in the keeping quality of butter when kept exposed to the air. Salthardens butter. To keep well butter should be pressed by the ladle. He has seen butter which has been kept two years, and was perfectly sweet. It was salted one oance to the pound, with Onondaga salt. The brine used in washing this old; butter was not saturated, except at the last washing. The salt used is not to preserve the butter, but to dissolve the cheesy particles. The salt used in salting the butter is tor flavor, not for keeping.

Mr. Chapman said that at the N. Y. State Fair in Watertown, the idea was advanced by a professor that salt processor and in the transport of the cream would rise faster. In the water of the case would rise faster. It may be find the cheeping.

Mr. Chapman said that at the N. Y. State Fair in Watertown, the idea was advanced by a professor that salt processors and in the interesting and in the case in the same time it might do so.

BEFERION UT LIE DAILY Stock. Conselerable attentions and in the latter of the record of the cream at the same time it might do so.

Watertown, the idea was advanced by a professor that salt preserves animal matters by keeping them cool. He said that Onondaga salt is stronger, and leads in seeded than of unported salts. Mr. Hawley said salt absorbs water from meat, and thus preserves it. It takes six ounces of salt to keep a pound of pork. Mr. Mentgomery said that a year ago he used a barrel of Onondaga salt in a factory where he had made cheese for 11 years, and this barrel of salt spoiled his cheese. They were good for 12 days, but after that they became "sweet" and "rose" Mr. Hawley said that the trouble was owing to bad milk used in the cheese—"Fresh" salt is not so good as oid barrel salt. There are imore chlorides in the salt unless it is refined. He would wash each churning of butter in freshly made brine. Mr. Farrington said that a good cheesemaker has always used the common Onondaga barrel salt, and makes a uniformly Watertown, the idea was advanced by a professor that salt

Butter, it chemically extracted from milk and properly put up, will keep indefinitely. The quality of butter depends primarily on the quality of the milk from which it is made. Butter undercoes no chemical change from the time the milk is drawn from the cow until it is gathered in the churn, if cleanliness has been strictly maintained. No water should be used in working the butter. If the butter has not been freed from casein or butternilk, butyrie and lactle as ids are soon formed. Wooden packages are upt to injure the butter, and to absorb some of the butter. Metallic packages are not safe. Stoneware would be good if the covers could be fitted on tightly. No varinishes have been found perfect and insoluble. Parafline the milk is deeply set. In his practice the dairyman must butter has not been freed from casem or butternilk, be guided by actual experience, instead of theory or guesswork. He thought shallow setting of milk the best to produce quantity of butter. He would not pour in water to cool the milk. Mr. Joslyn said he has found that by pouring in water to cool the milk suddenly, he obtained thought the thinning of the milk guidenly. Mr. Arnold thought the thinning of the milk permitted all the cream their followed on the subject of heating instead of cooling the milk, to expel the animal heat. Soveral, among whom was Mr. Arnold, advocated this quite strongly. Care must be taken, however, that the heating be done slowly, as sudden changes of temperature mure the product.

Mr. J. M. Joslyn of Cattaraugus then exhibited a cheese made entirely from sour milk and butternilk. The cheese was rich, fine and of good flavor, and according to Prof.

Firkins should be made of oak, and Welsh tubs of ash,

BLEEDING OF THE DAILY STOCK. Considerable atten-