stated. A considerable quantity of butter contains the elements of decay or decomposition which are infused into the milk by the cow eating weeds and drinking impure water-hence too much care cantnot bo taken to purify the pastures. The same romark will apply to milk designed for the manufacture of cheese, as bud cheese. But little cheese is consumed in this country as compared with Great Brituin. In the latter it is made an important article of food. Here it is used as a relish or as an appetizer; our own people generally having a tasto for rank or strong cheese, a little of which goes a great way. The Englishman prefers a mild cheese, a considerable quantity of which can be eaten without detriment to the stomach. as is not the case with strong. The former can be preserved much longer and being healthier, it is apparent our tastes should be changed, on our own account and for the benefit of the dairymen. Makers should strive $f$, a more equal standard in the mauufacture of clicese, and to help obtain the desirable end, I would recommend to the Society to establish a sale of points, requiring uniformity, and establishing a degree iu colour, size, condition and taste, upon which to award the premiums. Until this plan pre:ails and our dairy maids give up over-dozing the cheese vats with so much renvet to hurry up the curd, and get the checse out of the way, we must expect a large per cent of inferior cheese, and loss to the makers. Smaller cheeses are requi:ed for home use, so that the last end may be used up before it spoils. An inportant improverrent can be made in cheese houses. They should be lined on the inside to keep out the heat, and to enable the dairym in to graduate the temperature, so that it may be kept if pos-ible at a uniform degree. With greater care in the manufacture. and a standard of uniformity. we shall increase the number of consumers, and place the making of cheese upon a more perfect and permanent ba-is.

## fruits and flowens.

Several causes combined to make this department somewhat less attractive than it was last year. In the floral department however the display was much better than could reasonably have been expected. The large tent was artistically arranged under the immediate superintendence of Col. E. C. Frost, of Watkins.
[We suspect the principal cause is that Howers don't pay; out of New York. Boston, or Philadelphia there is no chance for a Horticultural exhibition.]

## HEMP CULTIURE.

BY L. J. BKADFORD, AUGUSTA, KENTUCKY.
The culture of hemp is an interest of great and growing importance in the

West, its production heretofore being mainly confined to Kentucky and Missouri ; but there can be no reasonable donbt in the minds of those who have given the subject any attention, that in the production of hemp, Iowa, Minnesota and Wisconsin have vast advantages over the above named States.
Mamy writers have advanced the idea that hemp. like cotton, could not be grown by free white labor, and that its proluction would, for some time at least, be confined to the slave States. Nothing can be farther from the truth; the climate the very best adapte? to hemp growing is found far north of the home of the negro, aud where he would absolutely suffer from its effee:s. Hot, short, quick forcing seasons of growth are best adapted to the plant.

Growth of this great staple in a climate such as the region referred to actually possesses, makes the day not far distant when these will be as noted hemp-producing States as Kentucky and Missouri ever were It is to be regretted that in our census returns hemp and flax have been confounded; it may, however, be safely assumed that its growth and preparation are so far below the actual consumption of the country as to assure the agriculturist of a continued good demand and paying prices for many years to come; and the experience of Kentucky and Missouri has fully proved that the production even of an iuferior staple has bren and is yet remunerative. The reader must bear in mind the fact that American hemp is almust exclusively what is technically called "dew-rotted" - that is, spread upon the surface of the earth and there rotted by the slow process of the elements. France grows more hemp than flax for the linen manufacture and the finer grades of cordage and twines, the fibre beins greatly superior to Americin, from the fact that her climate is of a lower temperature than that portion of this country that grows hemp, and the additional fact that she has abundant supplies of pure soft water for steeping in the rotting process; and the same is true of the Russian production.

The soil of Kentucky is as well adapted to the growth of this plant as any in Europe or America, but there her adaptation ends; her general temperature is too high, and she is entirely destitute of water of the proper quality for the steep. ing process ; hence all attempts to furnish our navy from this State have heen failures, notwithstanding that department has offered great inducements to her growers to water rot.

Iowa has, with a climate much colder than Kentucky, and pure sofl water in her small lakes and streans, a soil certainly equal in fertility to any on the globe; why may not, then, her enterprising people reach forth their hands and lay hold of
of this prize, so well adapted to her soil, climate, and situation?
In the process of dew-rotting, the fibre, esprecially in warm climates, is materially deteriorated, and in some cases so far injured as to produce a very poor grade of lint, unfit for anything but the coarsest and lowest kinds of bagging. This is especially the case when exposed to the dew process in open, wet winters in Kentucky, thus proving that the true hemp latitude is north of this StateColl, snowy winters, on the contrary, universully produce an: inp:oved quality of lint, always brighter and stronger.

## culture of skep.

The first step in hemp culture is the production of good, sound plump, seed. Laud intended for seed must be in good tilth and well prepared by early corn planting ; it should be laid off in straight rows, four feet apart each way, and planted in hills seven or eight seeds to the hill ; the same rules observed for cultivating corn will apply in the alter culture of hemp seed; when the plants reach the height of six or eight inches, they should be thinued to from three to four plants. Hemp plants are divided into male and female, the former producing the pol'en or impregnating powder, the latter bearing the seed. A very little observation will enable the grower to distinguish them. As soon os the distinction can be made, the male should be carawn up by the root, except here and there a solitary one left that the female plant may be properly impregnated; the female is to be retained until its seeds are perfected, when it is to be harvested by cutting at the ground and removal to cover; when cured detach the seed with a stout stick of convenieut length, wimow and put up in burrels or sacks, perfectly dry, and out of the way of rats :und mice.

## preparation of land.

The soil for liemp must be a strong, calcureous, deep, warm, loamy, and perfectly dry one, deeply and thoroughly prepared by ploughing and cross-ploughing, until a fine state of tilth is produced, mow or less, according to its previous conditiou.

## pOTTING IN THE CROR.

The aground having been faithfully prepared, the grower must hasten the operation of seeding with the utmost despatch, $\mathbf{a b}$, generally, the earlier the seeding the heavier the lint of the plant Musrk off the land with a small plough, and very shallow furrow, or it may be murked off by a drag made of a small logiof woodanyching to make a line to guide the sower accurately; then propeed by hand to brosdcast your sted evenly at the rate of fifty pounds of seed per acre as the minimum, or even up to seventy pounds as the maximum quantity, varying with the strength of the lapd, the object being

