HOW TO HANDLE

C. L. SMITH, EXPERT, TELLS WHAT TO DO

Proper Selection and Care of Cows is Essential if Best Results are to Obtained-Testing of Is Urged Also.

BY PROF. C. L. SMITH.

(Written especially for The Bulletin)

The 50 cows used in the dairy test at the Pan American Exposition b cows each from the ten following of pounds of milk for each cow. breeds: Guernsey, Jersey, Ayreshire, Holstein, Red Polled, Brown Swiss, French Canadian, Shorthorn, Polled Dutch Belted. They prothe period, 16 cents per pound for dairy; 300 pounds at practicable \$ \$1,382.74 leaving \$1,888.80 profit, milk, and two that gave only 12 or \$39.77 per cow per six months.

they were the result of selection, worth just about the same as the food important factors that had so effects ed the natural character of the ani- weighed or tested the cows separatesuable factor of production, that ual weighing and testing, the two man to his profit and advantage.

There is an old adage that "A This is especially true of weakening or destroying the strength first. the chain, to the extent that the

dividual, no a breed. as wide a variation between individu- weeks. als of the same breed as between the different breeds. In the selection these broads that have been fed,

Piret Sintention.

Second-Care: which includes vidual merit-

tuo sut.

Fourth Breeding. Fifth Feeding, handling and do-

veloping of calves and hetters. Carelesaness, negligence, or lazor-

ance on the part of the dairy man in regard to any of the factors will eliminate or seriously impair the measure of profit.

Before making any investment in cows, the dairyman should thorough ly and intelligently consider the line of dairying to be followed, and the breed, that in his judgment is the best adapted for his purpose. ing determined a line, then follow persistently. One of the serious stacles, to general improvement, is found in the tendency of so many ien, to change breeds, cross breeds nd use grand stres. By these freuent changes they reap only confuion and more often build down than

Selection.

There are good dairy cows to be found in all the breeds mentioned the first paragraph of this article, but they are not all as widely known and as generally distributed as the Holstein and lerney, Guernacy, Shorthorn. A profitable or satisfactory herd may be built up from any one of these breeds

The important points about a cow are in general, a large mouth, broad forehead, full, bright eye, with gentle expression, strong heavy jaw, wide nostrils, thin neck, clean throat, thin on top of shoulders, but widen" ing downward so as to be broad in the chest, with forelegs well apart, giving plenty of room for lungs and High backbone, ribs springing down, but well apart and long heavy abdomen. Milk veins large and crooked, with large wells. Udder starting well forward and running well up in back, ie: long udder connection. Teats well apart and of good size and uniform. Udder well veined, free from hair, of good size but not meaty. Hind legs well apart, giving room for the udder, comparatively thin flanks high, broad and strong pelvic arch, back me full and running level to the vertiser good returns for the money all. . If cows of this type are select invested.

dons that have produced cows capa- sion, forehead broad and long. Novcestors could. By weighing the milk chances. ands of samples of mitk. The "liab- slome of the most satisfactory imable method I have found for deter- have come from inbreeding. mining the amount of fat in milk.

Every dairyman who is desirons and knowing just what each individual cow is doing, should have a Habcock testing outfit and use it at least

I have found cows ranging from 600 quarts of milk, morning, boon and ening them. If they go on good paspounds of butter per annum down to 100 pounds. Of course it would be duced a total of 327,733 lbs. of milk difficult to fix an arbitrary limit, but in six months. The average test of it is safe to say, mark for the butcher butter fat was 3.91. Figuring the any cow that will not produce 200 butter and skim milk at the average pounds of butter per year. She would prices, throughout the country for be a weak foundation for a profitable butter and 18 cents per 100 for skim and easily within the reach of an inmilk, the product was valued at telligent dairyman. It is not uncom-\$3,371.65 or an average of \$66.19 mon to find a dairy of ten cows with per cow. \$11 per cow per month. one or two that pass the 200 pound mark, five or six between 300 and prices, \$7 per ton for clover hay, \$2 200 and the rest below 200. One for encilage, \$1.75 for solling feeds, dairy I remember, of five cows, one a bran \$15, cornmeal and gluten meal grand, good cow giving 30 pounds a \$16, oil meal, cottonseed meal and day of 5 per cent milk, two that pea meal at \$25 the fost of feed was gave 20 pounds per day of 4 per cent pounds per day of 4 per cent milk. These cows were not accidents. The four cows giving 64 pounds, care, feeding and breeding through they consumed, leaving the owner many generations. They were the nothing for labor or capital invested. product of a certain combination of The one cow returned a profit of 160 per cent. The owner had never mals as to develop and intensify the iy, nor stopped to think out the deoriginal mother functions into a val- tails of dairying. After the individcould be utilized by an intelligent 12 pound cows were soon sent to the butcher; two intelligently selected heifers were added to the herd, and chain is no stronger than its weakest later, a third. The man now has five cows that average a little over 300 dairying. Successful dairying is the pounds of butter per cow each year. logical result of a chain of factors, One of them did one-third better the weakness or absence of any one, the second year than she did the

of the chain, to the extent that the The profitable dairy cow should final profit is always measured by be a persistent milker, maintaining the strength of the weakest link. a fairly even flow of milk for at least The profitable dairy cow is an in- seven months and then gradually There is just falling off and going dry six to eight

The sire used for building up a of individuals it is however true that good dairy herd should always be a pure, full blood unimal of the breed handled and bred for any specific selected. The quantity and quality putpess, will show a readler, more of milk produced by mother and by general minutation to that specific grandmothers are important considpurpose, than hollyidush from fame erations and worth investigating tiles (ed and bred for other purposes. Sisters or half-claters that are null-The building up of a dairy bord ing are valuable references to be con-egias of course with the selection suited; but with all the above excelof individuals for the foundation, lead to character the animal may be The order runs something like thin; at no value in the building up of a dutey, kerd unloss to present a lad-

> reporal built and carriage tollest strength, vigor, style and constitu-He should be alert and reso lute but not vicious. The rudimentaries aboutd he well developed, squarely placed and free from the

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d, they will, as a rule average well, scrotum. The abdomen should be night, for the first week, then drop ture at six or seven months of age, Keep them in good flesh and gaining Testing sorting and Feeding large, deep and muscular, with ribs the noon feed and increase the others gradually shut off the grain. Feed oral with the forage, but avoid any the profitable dairy cow being a well apart; long rump, wide pelvic up to four quarts of feed night and the skim milk four to six months, over feeding. Handle the udders specific individual, the dairyman arch, thin thighs, prominent backmover knows just how profitable each bone running level to the tail, a whole milk to skim milk. Feed all and out hay mixed with meadow hay parturition, so they will become farow is nor just the measure of profit clean throat, with clean nock and a milk warm and sweet. Use a dairy and fodder corn and enalings are all millar to the touch and can be milkuntil with proper feed and care he full chest; wide muzzle, strong laws, thermometer and warm to 96 or 95 good. The first four are the best. iss established those artificial condi- full bright eye with gentle expres- degrees.

even five times the amount of feed bandle him kindly and firmly, and to mix with akim wilk. Ground strated. That such calves are bet-foods that will stimulate milk pro-into milk that their unimproved and however gentle never take any flaxseed soaked in six times its bulk ter suited for the dairy or feed lot duction. As long as they show a Handle with a ring and of cold water will make a jelly that than those that have ren with their tendency to utilize the food for milk of each cow, each day, each week, and staff. Be sure to have the stalls and can be used advantageously mixed dams has been shown by numerous production keep gradually increaskeeping the record, the owner may puddocks just a little stronger toan with the milk. A pint of jelly is the carefully conducted experiments, ing. up to their limit to digest and soon determine the exact quantity of seems necessary. If he gets good right quantity for four quarts of During the winter months the calves small late. But at the first sign of milk that each cow gives. Quite as helfers that show better perform milk. Important as quantity in the matter ance than their mothers, keep him to Feed at the regular hours and af- quarters. A little road dust stored a slight decrease in the ration,

water they will drink. Sprinkle a times its own weight in moisture, milk. Allow for a gradual increase cock Test" is the only perfectly reli- provements of domestic animals little salt on a board where they can Use plenty of bedding. Whitewash in both quantity and quality during lick it. Give a little bright clean walls and ceiling if there is any ap- the first two periods of pactation. The Calves.

hay. As they become accustomed pearance of dysentary. Reduce the if the helfer has shown good develCalves should be removed from the to it, increase to what they will eat feed and add one teaspoonful of opment along dairy lines, and good of obtaining the best results, work- mother within a day or two. Some up clean. Increase the grain grad- dried blood, stirred in the warm milk performance at the pail, milk her ing intelligently, building up his herd advocate never allowing them to usly until it reaches a pound a day. fed. Two or three doses will usually to within eight weeks of the second suck, others let them suck once, then Shelled corn, whole oats, bran, wheat effect a cure. The dried blood can parturition, then dry her off by first remove them. Whichever way it is and shorts are all good. Always be bought of the packing houses, feed milking once a day, then every other done the calf can easily be taught to feed the grain dry in the box after stores or dairy supply dealers. once every month; keeping a record drink by fastening it in a rigid taking away the milk pail. Leave at Buffalo in 1900 was composed of of the per cent of fat and the number stanchion and giving it the warm the calves in the stanchion thirty to calf at from 24 to 30 months of age, slight change in the feed at this time new milk in a clean pail. Poel at forty minutes after feeding. Han preferably in October or November, will often assist in drying off the

index to quality. I have inspected are clean and healthy, intransfer the calf has drunk the found very convenient to sprinkle the tion after she goes to pasture. hundreds of dairies and tested thous- may be a decided improvement, milk. Give calves all the clean cool floor with. It will absorb several Occasionally weigh and test the

> Breed the heifers to drop the first the pressure of the udder. in weight all the time, but not fat. ing dry at that period.

ed without exciting or frightening That calves can be successfully them. Within three weeks after Never mix meal shorts or bran raised in winter on skim milk, grain calving, begin increasing the ration ble of manufacturing three, four, or er allow him to run with the herd; with the milk. Oil meal is not good and hay, has been practically demon-gradually, using as far as practical should be kept in warm, light, clean loss of appetite or indigesion, make of quality, and quantity is never an a good old age. If sire and offerries, ter the first week give a little dry in barrels under the shed will be on feeding a portion of the grain ra-

in the work if inspecting dairies first sparingly, one and a naif to two die them carefully, avoiding fright- Keep them in good flesh and aining helfer and help to fix the habit of go-

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