Balanced Rations--Modern Concept

By Dr. Gustav Bobstedt Emeritus Professor of **Animal Husbandry** University of Wisconsin

A great deal of feed is har vested and stored under difficult conditions Consequently, it is tein ration needed only 346 moldy and otherwise spoiled, pounds feed - a saving of 60 perhaps from insects, or is eaten pounds feed for every 100 and fouled by rodents.

observer is impressive, that more paid feed is wasted inside an animal than outside

An enormous amount of feed cows produced 50% more milk. is fed to livestock in poorly balanced rations They may be unbalanced not merely in protein, or the right kind of protein, but also in minerals and vitamins Yes, even as to energy, there may be enough to eat, where the animal is fed for economic performance but not the amount that most nearly meets its productive potential

sense are further realized throu- Station that the quality of rouggh the use of various feed addi- hage largely determines the need provide both mixed with the tives, antibiotics, hormones, an- for feeding trace minerals. thelminties, and other health protectives.

Modern animal performance would astound old timeis of years ago, as was brought out at the 50th Anniversary of the Am-lent Two-thirds is only fair or erican Feed Manufacturers Asso-

100 pounds gain, this has now quality. with modern rations been reduced to 300 pounds. Broilers have mature timothy hay with proteina feed efficiency of little more balanced grain to comparable may soon be much more efficient creased rate of gain and a 15%

The protein factor in all cases unsupplemented lots. is apt to be important. When we

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at Wisconsin fattened a group of 11's protein ration, it required grass hay like timothy. thin sows for the market on an 406 pounds feed to produce 100 pounds gain

A similar group on a 14% propounds gain The slightly higher Still the comment of a wise cost of the ration was amply re-

The University of Illinois years but may be true A few illustra- When this was corrected, the (like copper, cobalt or others.) tions directly tend to support it cost of rations rose 15%, but the

> more feed is wasted inside than covery was almost instant. outside an animal.

Quality Forage And Trace Minerals

A fai-reaching observation was Such potentials in the modern made at the Ohio Experiment

> This is of real importance to only about one-third of the hay sait. put up throughout the country can be graded as good to excelactually poor.

his early editions of Feeds and ting and the kind of crop are different materials on the side-Feeding cites pig feeding results primary causes of low-quality walks in order to prevent slipof "Many American Stations", hay. We also know that silage ping. There are many materials requiring 440 pounds feed for and pasture are not always of top that may be used but most of

When the Ohio workers fed than 200 pounds per 100 pounds lots of steers, the trace mineral gain, and the prediction is that it supplemented lots had a 33% inincreased feed efficiency over the wear. I'd like to suggest the use

the nutrients Alfalfa leaves con- concrete when used repeatedly.

tain 70% of the minerals and Use Salt Sparingly 90% of the vitamins of the entire plant.

in cobalt and other minerals than

minerals. For example, taking corrosion on automobiles copper as a representative trace mineral, alfalfa hay has 82 mil- ornamental shrubs near walks ligrams per pound but timothy and driveways can be much only 20 milligrams.

But if the soil is deficient in Continuous use of salt will

the discovery of cobalt as an es. jury. These examples are relatively sential mineral Sheep in Ausmild contrasts in consideration tialia grazing on lush pasture gradually at the ends of twigs in teen work." of the many extreme ones the pined away because of lack of country over, but they all tend what later was found to be coto support the statement that balt. When it was supplied, ie-

> Therefore, considering the varlability of forage of whatever kind, and as shown by the Ohio researchers, it pays to supply the likely missing minerals.

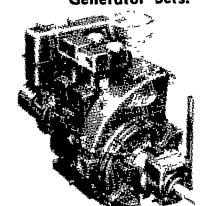
As good a way as any is to grain of the ration, and readily accessible on the side, the mixture of equal parts dicalcium dailymen and stockmen since phosphate and trace mineralized

Coarse Sawdust

During the past month we have Weather conditions, late cut- had plenty of time to try out them have some disadvantage. Salt is very commonly used but on turf and shrubs near the point of application. Sand is safe to use but is not welcome in the home when tracked in on foot of coarse sawdust to reduce this hazard. It is not harmful to lawns As a hay crop matures and is or plants and is cleaned up very cut at a late stage of growth, its readily when tracked into the trace mineral content may de-home or buildings. It is reported cline to half or less of what it that several kinds of nitrogen was earlier. Loss of leaves is fertilizer may be used as abra one explanation, because the sives, but engineers report them leaves and not the stems carry to be hard on the surface of the

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On Snowy Sidewalks

hay, with half its weight in sidewalks and driveways, use it help prevent further injury, howleaves, is more apt to be richer sparingly, says Dr. Francis R. ever, it will not solve the prob-Gouin, Extension horiculturise at lem, Dr. Gouin adds the University of Maryland.

Alfalfa is a deep rooted hay house and will damage wood can tolerate it, but if you add crop, compared to timothy, thus floors, linoleum or concrete. On more salt next year, the effects may be expected to be richer in the driveways it can also cause may be fatal to the already-weak-

But the damage to grass and more dramatic.

essential minerals, the hay crop raise the salt content of the soil of whatever kind is bound to be around the plant roots. When ago took over a herd of cows that deficient, whether in major min- the salt content reaches a certain It seems like an overstatement had been fed unbalanced rations, et als (like phosphorus) or minor point, it will retard the plant growth or may even kill it. Sym-As proof, we have the story of ptoms are similar to drought in-

and the leaves turn brown; eventually the plant dies.

Heavy watering as soon as the If you use salt to melt ice on syptoms appear will sometimes

Watering will only dilute the Salt can be tracked into the salt to the point where the plant ened plant.



"The smoothest running The plant begins to die back families are those that believe

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