Ohio Research Favorable, May Compete With Hay

Can Garbage Become Animal Feed?

ration's mounting problems with garbage said that an Ohio feed for ruminant animals garbage disposa, may be to pro-engineering firm has developed. In the Ohio study, prelimin cattle and sheep

Processed garbase has proven from household garbage lambs at the Ohio Assicultural a soil organic humus builder and digestibility tirals were conter Wooster

considerable amounts of cellu- in complete pelleted rations Kenneth E McClu e assistant lose, protein, and other comprofesso of animal science at ponents normally found in processed garbage in quantities

One possible solution to the results of feeding processed might have some potential as a

tess the garbage and feed it to a method of removing metal, any trials showed that processglass, and plastic materials ed garbage was readily eaten by both cattle and sheep in meal both paratable and diges ible in. The remaining garbage is form mixed with ground shelled studies with beet sicers and then processed and marketed as corn. However, the palatability Research and Development Cen- Since the product contains ducted using processed garbage

Both cattle and sheep ate the OARDC, reporting preliminary feeds. Ohio scientists felt it similar to those expected with more conventional rations. The processed garbage rations were digested by the ruminant animals with no difficulty

McClure stressed that the Ohio study is prelimirary in dicating only that ruminant ani mals will eat and digest process Straw, although produced in its added to neutralize the treated garbage. Feeding recomlarge quantities in most areas ed straw prior to animal feedof the world, its generally not ring well utilized as a feedstuff bewell utilized as a feedstuff beA ration containing over 80

At current market prices pro

competitive with hav. McCline feeder cattle or lambs The Ohio believes that the product may scientist also hopes to evaluate someday fit into livestock feed the potential of processed garewe maintenance rations or inboth cattle and lambs.

and marketed in bulk at prices starter or grower rations for ing programs in brood cow or bage in finishing rations for

The Waste Reuse Issue

As the population grows and as people become more atilizent the question of what to do with increasingly huge amounts of weste becomes more acute

This question of waste products is closely fied to the issue of pollution control actually, stopping pollution is largely a matter of controlling the wastes or effluents of human society

The accompanying three articles from Penn State University summarize research underway on this question of waste control. The research findings were presented at the 62nd annual meeting of the American Association of Animal Science at University Park in early August

All three research projects dealt with recycling or re-

While reuse is not new - it has often happened in American industry that whole new industries have sprung up from the by products of wastes of other industries these articles make it readily apparent that the potential implications for farming of waste reuse are very great.

Ever Consider Feeding Over 80% Straw Ration?

pus of McGill University in tory performance considering Canada have reported a method the type of ration used where a sodium hydroxide (lve) solution is used to treat straw ences in feed consumption bein an ordinary horizontal feed tween the two groups, with an reacts with the enclusting and pounds of alfalfa lation undigestible lignin contained in the straw, releasing the plant that continuing improvements cellulose as an energy source in the straw treatment procefor the microorganisms of the dure should help in utilizing

After the initial reaction acid ply for production rations

cause of its low nutritive value per cent treated straw, the re-European scientists started mainder consisting of molasses cessed garbage can be produced at the beginning of this cen- and protein supplements, was tury to develop chemical full-fed to early weaned lambs methods of treating straw in and weight gain compared to order to release its potential animals fed a ration based on energy for animal feeding use dehydrated alfalta Lambs fed In secent times there has the alfalfa sation gained 04 been renewed interest in fur-pound per day which was acther developing such methods coiding to National Research because of the need to find new Council standards. The lambs and cheaper sources of animal fed the straw rations gained less, averaging 03 pound per day but still achieving what working at the Macdonald Cam- would be regarded as satisfac-

There were only slight differmixer The sodium hydroxide, average daily consumption of a relatively inexpensive alkali 36 pounds of straw and 33

> The McGill workers conclude this largely untapped feed sup-

8% Newsprint Feed, Anyone?

the ground timothy hav in a wintering ration tor steers did not materially reduce weight gains in studies reported by a USDA animal nutritionist

Di David A Dinius of USDA's Agricultural Research Service said that replacing 16 and 24 per cent of the hay with newsprint and molasses, however, produced progressively smaller weight gains.

All diets contained protein and mineral supplements and were fed as complete feeds to groups of 12 steers each for 14 weeks at Beltsville. Md The basic diet contained nine pei cent molasses, and an additional five per cent molasses was added for each eight per cent

Average daily gains were 192 pounds for the all-hay ration 180 pounds with eight per cent newsprint 119 pounds with 16 per cent newsprint, and 056 pound with 24 per cent news print Dr Dinius said

He found that substituting ground newsprint for hay did not affect ruminal volatile fatty acid concentiations and did not alter the population of rumen protozoa the most sensitive of the numer microflora

The studies are nait ARS research effort to reduce

Ground newsprint and mo- the cost of beef production well as to improve the environlasses as an inexpensive ie through use of inexpensive ment by finding new uses for placement for eight per cent of feeds and feed substitutes as waste materials

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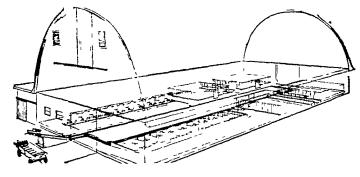
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