Cattle Feeding

(Continued from Page 1) 1 That cattle require roughege for hearth and efficient

2 That minerals found in hay nast be added to finish-102 1a .Cas

3 Tl a vegetable proteins cre si perior to synthetic urea fed as the major source of carbohydrates

Belt-vile scientists R R Oltjen R E Davis, and James Bond fed several lots of yearling steers an all grain corn finishing lation for about 16

NEW PROTECTION

against SHIPPING FEVER LOSSES



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weeks to sloughter weights of 800 to 1100 pounds. The steers maintained good health, g, med rapidly, and corverted teed efficiently—and produced ency ecre, sees of acceptable mar-

ket quality

In the early studies, it was found that cattle do not need the additional bulk or rough-4 That wheat cannot be age usually fed Two lots of vearlings were fed free choice on like rations of coin p'us supplements except that half of the animals also reinto the ration for bulk Cattle receving the additional cobs ate just enough more of the ration to get the same amount of grain eaten by the group on all grain. The growth rate and carcass grades were samalar

> Certain minerals usually obtained from hay are lacking in the high-grain rations. Feed ng zinc or steamed bonemeal gave no benefit A buffering mixture of calcium and potas: um carbonates and magnesium sulfate were added to the all-grain rations to obtain a favorable ruminal pH and to add needed minerals. This mineral combination (1) had ! "le effect on gain and feed efficiency, (2) caused the will also be served; only case of bloat, and (3) lowered carcass quality an average of 1% of a grade

Although vegetable protein supplements are traditional with cattle feeders, ured was found in the Beltsville studies to be equal to soybeign meal when measance.

Wheat was substituted for coin in the finishing ration fled other groups of steers Rate of gain and feed efficiwere reduced when whelat comprised more than 60% of the total ration Cattle fed an all coin ration gained 31 pounds daily compared to 26 pounds for cattle on an all wheat ration Although coin was a superior feed grain in these tests, wheat contains more protein and therefore requires less photein supplement, and sometimes is cheaper, as in 1964

The success of the Beltsville research questions the contention that all-concentrate feeding may be responsible for founder, kidney and liver diseases, and bloat among feedlot cattle None of the grain-fed steers had founder or kidney lesions There were about 15 percent condemned livers-far fewer than the 40 to 80 percent reported by some feeders Except for occasional instances, bloat occurred only with steers fed

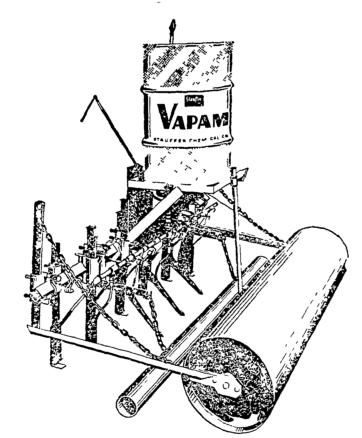
Dopen House -

(Continued from Page 1)

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Agway 100-20 Corn Club . . . FOUR YEAR RECORD

(based on actual field records of all participating faimers)

	1961	1962	1963	1964
SILAGE				
Fields	82	111	210	103
Ave Weight	$24 \ 1$	$24 \ 8$	$24\ 1$	22 3
(tons per acre)				
TDN	10.221	10,231	9,999	9,739
(lbs per acre)				
GRAIN				
Fields	93	62	51	59
Bu Acre	108	117	109 2	106 9

AND THESE AVERAGES WERE MADE IN DROUGHT YEARS!

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