

**● American Potash**  
(Continued from Page 19)

grass 725 lbs. . . 10 tons of warm season grass 1,115 lbs. Such yields are realistic goals. And nutrients contained by them must come from the soil or added fertilizer. Legumes, of course, can get much of their nitrogen from the air.

9—Can I get by with nitrogen alone on my pure grass stands? Not for long. Nitrogen is the

lifeblood of a strong grass program. But as N use increases, you'd better watch your fertility balance. New York trials showed first-year yields high with nitrogen only. But later yields declined steadily, until fourth-year production was little more than half the first year's yields. When phosphate and potash were brought in to help nitrogen the fifth year, the yield jumped almost to first-year levels.

**grasses demand right proportions of phosphate and potash?**

A good answer was found when Timothy was fertilized up to 200 lbs. N per acre in Maine. Without nitrogen, the crop removed around 95 lbs. potash each year. But when the crop received 100 lbs. N per acre, it removed 180 lbs. potash per acre . . . 230 lbs. potash at 200 lbs. N . . . and 245 lbs. potash at 300 lbs. N. More N demands more K. We now know this from many trials

10—Why do nitrogen-fed

in all parts of the country. They have shown nitrogen-gorging grasses rapidly draining the soil's K supply.

11—Some advisers tell me to use legumes where I can. Why?

Legumes not only improve feed quality, but also fix 200-300 lbs. N per acre from the atmosphere. And researchers say legumes stimulate the cow's hormone system. Legume-grass pastures have produced more gain or milk per head, often per acre — plus higher weaning percent, slightly heavier calves. Clover-grass pastures have produced beef about 40% more economically than all-grass pastures.

12—Will fertility balance help my crop production? How?

It will help yield. It will help quality. It will help profits. As the old saying goes "You gotta show a Missourian" Well, Missouri trials showed balanced (NPK) fertility getting far more out of orchardgrass than the PK or NK trials — nearly 2,300 lbs. more yield, 400 lbs. more protein, and \$175 more profit PER ACRE.

The same influence applies to corn silage. Wisconsin trials showed balanced (NPK) fertility

increasing protein 600 lbs. per acre over the PK treatment and carotene content 48 mg per lb. of dry matter. It also reduced fermentation losses from 7.3% to only 2.1% of dry matter.

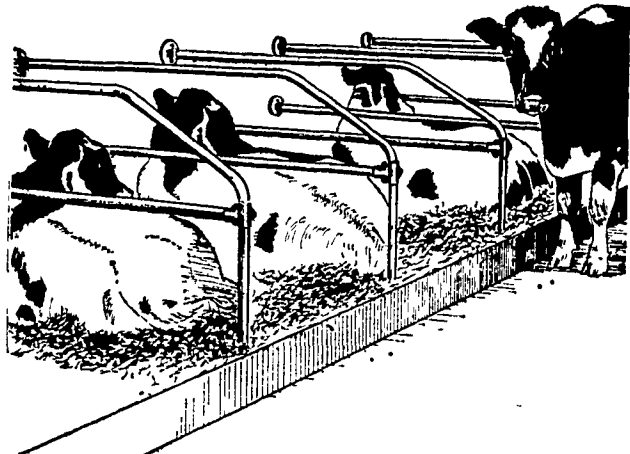
13—I know many folks who swear by potash in producing forage crops. Why?

Profit is their biggest reason. When 240 lb. K2O per acre were added yearly to maintain a 3-year alfalfa stand in Minnesota, hay value increased \$63.30 above the cost of the potash. Adequate potash insured THREE good alfalfa cuttings in Michigan, raising feed value 75% per acre. True protein N of orchardgrass climbed from a low 1.6% with no potash to more than 2.5% with 400 lbs K2O in Indiana. High true protein N is vital to top quality feed.

These influences — plus K's role in helping crops resist disease and survive rough weather — make many folks believe K is O.K. for their forage programs

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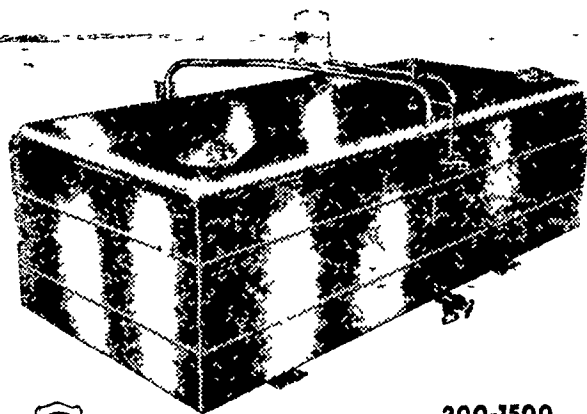
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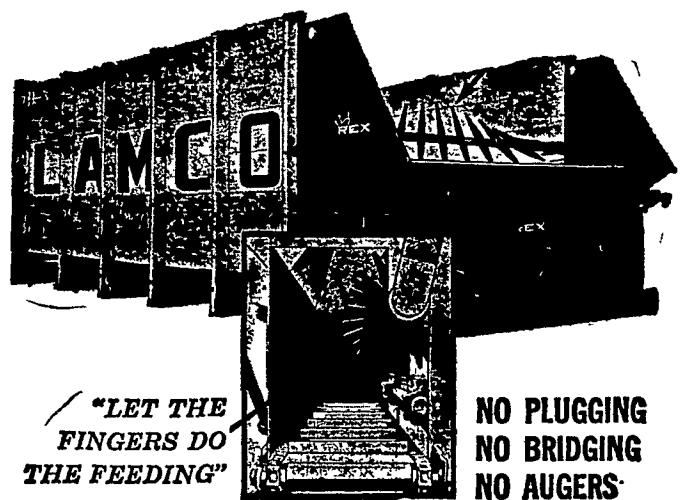
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