

## New Type Mowing Machines Tested By Penn State University

New-type mowing machines are available for the first time this spring should help farmers solve the problem of clogging, report agricultural engineers at the Pennsylvania State University.

The new mowers allow heavy stands of wet grass to be cut with few stops. Trials of various mowing machines were made last year by William L. Kjelgaard, Morris E. Schroeder, and Burton S. Home, Penn State engineers.

Best among the new mowers is one with guard plates modified to resemble sickle sections, one with a double sickle (both knife bars powered to operate in opposite directions) and a flail-type mower conditioner. These mowers are all operated by power take-off from tractors.

The grass was dry and the stand erect where the trials were held. Even under these ideal conditions the conventional sickle bar machine suffered more stoppage than either the modified guard or the double sickle mower. Pre-trial mowing of wet grass indicated

that both of the latter arrangements improved mowing action. All flail-type mowers had low field speed and low capacity in acres cut per hour in comparison with the sickle-

cutter bar machines. In one case, the capacity of the sickle bar mower was twice that of the flail machine.

The flail-cut grass dried faster than mowed grass — even when the mowed grass was conditioned. Windrowing definitely slowed the drying rate of flail-cut material, the trials showed.

The bicycle is the only means of transportation still from the chrome, fox-tailed beauty of today, looked more like a hobby horse. Invented by Baron Drais of Mannheim, Germany in 1816, the "bicycle" had a saddle, handlebars, but no pedals. The rider propelled himself by pushing with his feet.

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JANUARY 14, 1961

Just a little more than a year ago, January 14, 1961 to be exact FARM BUREAU announced a brand new, quality dairy ration - - - it's name was DARI-PAK. This nutritionally balanced, 100% vegetable protein ration proved to be an excellent milkmaker, reasonably priced and palatable, too.

AUGUST 28, 1961

DARI-PAK "PELLETS" were added to our quality line of dairy feeds. We were, and still are, mighty proud of our firm, palatable and productive pellet ration. Careful formulation of our modestly priced Dari-Pak Pellets has paid off - - - they're still growing in popularity!

DECEMBER 16, 1961

ANOTHER Farm Bureau FIRST. On this date we announced the installation of the First Sprout-Waldron "Molasses Blending Device" on our pellet mill - - - this was the first unit of this type installed in Lancaster County. With this new "Molasses Blender" we can thoroughly blend up to 200 pounds of molasses per ton of pellets - - - not just sprayed on the outside.

NOW... APRIL 21, 1962

WE'VE CHANGED Dari-Pak to Dari-Pak "A". More and more research reports show a real danger of Vitamin "A" deficiencies in dairy cattle diets. Why? Because increased grain feeding (and this trend will continue to grow) means less hay consumption and therefore less natural Vitamin A in the ration. Also, increased amounts of nitrogen applied to legumes tends to interfere with the conversion of carotene to Vitamin "A".

Recognizing the importance of an adequate Vitamin "A" level -

- - - we are now adding STABILIZED VITAMIN "A" (Vitamin A Palmitate) to:

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16% DARI-PAK Coarse Texture	16% DARI-PAK Pellets
36% MILKMAKER SUPPLEMENT	

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