Modern Ideas Produce More Profits

Hess Farm Uses Brains to Rost Brawn

Not quite two years when a salesman for a farm-type, mixing hammer-mill visited the J Zeigler Hess farm east of Quarryville, he found a situation ideally alranged for his product. He discussed the arrangement with Mi Hess and his co-partner sons, Henry and Robert, and today the Hess farm boasts a feed handling system second to none

The feel is used for them 8 000 hen laving flock. A large share to do is make sure the gravity of it is home grown. Herein lies flow bin above the mill is full set anoher facet of the system

In the past with 80 to 90 deces of coin in the field just before highest II is found himself without corr In 1955 through the purchase of a combination small grains combine-corn picker-shell er and a wagon type grain drvci, they started harvesting corn well in advance of the regular season

This year for instance Robert was in the feld on Sept 16 a full month anead of the regular corn harvest in Laneaster County Then thanks to then ultra-mod ein home feed plant the coin was processed and returned via eggs within day- So far he has har vested and dried about eight acres with the units this year

Some of the earlier grain was slightly wetter than he prefers running as high as 35 per cent moisture, but since the middle of September everything has op erated smoothly

Dumping the shelled coin from the picker bin Robert starts fill ing the box of the diver and starts the drying process With each new load from the picker the drver gradually fills and is left to complete the job

Then the dried grain is augered from the diver into a truck and hauled to the feed plant, at the home farm There it is dumped mechanically of course into a ground level pit elevated into a bin and started through the

The mill regulates the flow and mixes as many as four ingredients while completely grinding 1200 lbs hourly The automatic controls can be set to operate for a certain length of time and - have built-in safety features to shut off the power If one incredient slops flowing into the mill the mill is jammed (although a magnet protects it from metal going through), a part breaks or other unforseen emergencies arise

the dials, start the two horse power motor and walk off

The surprise in store for the harvest when coin pieces are mill's salesman when he airived at the Hess farm was the fouroin grain storage unit just off the main drive way, complete with dump pit - and gravity feed from all bins to alley ways beneath the bin floois

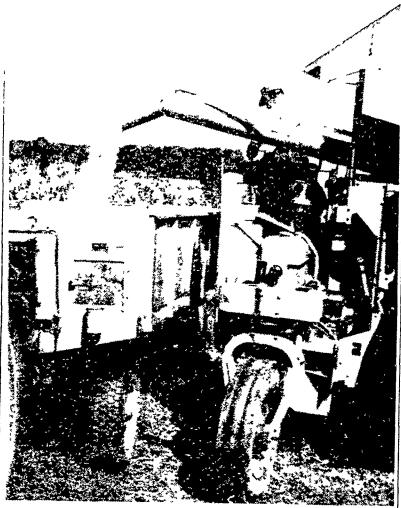
> Henry insists this "perfect" arrangement was unintentional Dad bought these bins in a bunch from the Quarryville gov ernment bin site. We started to set these four up here, and he decided to dig out the hillside and fix it so we could drive in under them and use sliding trap logis to empty the grain into our truck

Then since the round bin were itting fairly close together, he built a roof over the center see ion to have storage in between We already had the dump-pit and rugers, so when the mill was put in all we had to do was build i divided bin over it to hold ach batch of feed for mash, set by mill in, run a few lifts Meat Imports Up: outld a catch bin for the ground nash with a gravity flow into he allev-way and back the auger art under it

Then mash includes the shelled the pt and augered into the nix bin

The final result of this arrangenent is a very non strenuous | Agricultural Service system for handling all the grain

In short, all the operator has This set-up is near perfect", lion and 378 million pounds of 1957



EARLY-SEASON wet corn "pours" from the picker spout ınto Hess's wagon-type, diesel-fueled grain diver, as Bob Hess beats the 1958 coin picking season by several weeks Corn with moisture content as high as 35 per cent has been processed with these units this year and eggs produced with it already eaten LF PHOTO

U.S. Slaughter Off

Imports of meat and meat prod corn wheat and concentrated ucts into the US during the first upplement The supplement is six months of 1958 were more meat in commercial US slaugh purchased in bulk dumped in than double those of the same period a year earlier, according to latest figures of the Foreign 1957 period Of the total Jan -

The figures show that 2136 on the farm plus a \$10 per ton million pound of boof and veal saving on laving mash over commercial mixes. The savings on were imported during the Janu- from last year costs of having mash ground com | ary June period of 1958 compared | 23 per cent Pork — 6,059 mil mercially from home grown feeds with 769 million for the compaid for the mill the first year parable period of 1957, 848 mil-The Hess family still uses lion pounds of pork during the shovels, for cleaning up after the 1958 six month period, compared

other canned, prepared, or pre Jan to June 1958 compared with 34 million pounds from January to June 1957

In contrast production of red ter houses totaled 15 806 pounds onds and removed in a parch-- six per cent below the same August volume 8,549 pounds were beef down eight per cent Veal — 745 million lbs, down

lion lbs down one per cent, and 453 million lbs were lamb and mutton down four per cent

Poultry slaughter during this augurs and they find plenty on with 710 million in 1957, 111 past August is reported at 547 their faims to keep them busy, million pounds of lamb mutton, million pounds, ready-to cook but as the mill salesman said, and goat compared with 15 mil-basis 24 per cent above August

Six Factories To Flake '588 Tubers For New Product

A total of six manufacturers twice the number in production last year - expect to convert more than 4 million bushels of this fall's potato erop into potato flakes a new dehydrated mashed potato product developed through research by the US Department of Agriculture

Three new processing plants for potato flakes have recently begun operations or are ready to start at Bakersheld Cilif Island Falls Maine and Wayland, N Y Three additional plants began production last year at Idaho Falls Idaho Hartland Maine Several other factories for

and Ontario Oreg making potato flakes are under construction in Idaho Michigan and North Dakota Canadian and European concerns are aso considering manufacture of the new product Potato flake plants are already being built at Munich

Germany and Gmuend Austria The process for making potato flakes was developed by James Cording, Ji and Miles J Willaid Ji, under the direction of Roderick K Eskew in the laboratories of the Eastern Utilization Research and Development Division of USDA's Agricultural Research Service at Pittsburgh Pa Public service patents on the process are held by the Secretary served meats were imported from of Agriculture, and licenses to use them in the United States are available without charge

To make potato flakes fresh mashed potatoes are applied to the surface of a heated drum where they are died in a few secment-like sheet, which is then broken into flakes and packaged By simply adding hot water or milk to the flakes, plus butter and salt as desred, the consumer can quickly convert them back into fluffy mashed potatoes that equal fresh mashed potatoes in taste and texture

Research on this process by the ARS Eastern Division has made it possible to produce highquality flakes fro ma wide vaiiety of potatoes grown in different parts of the country

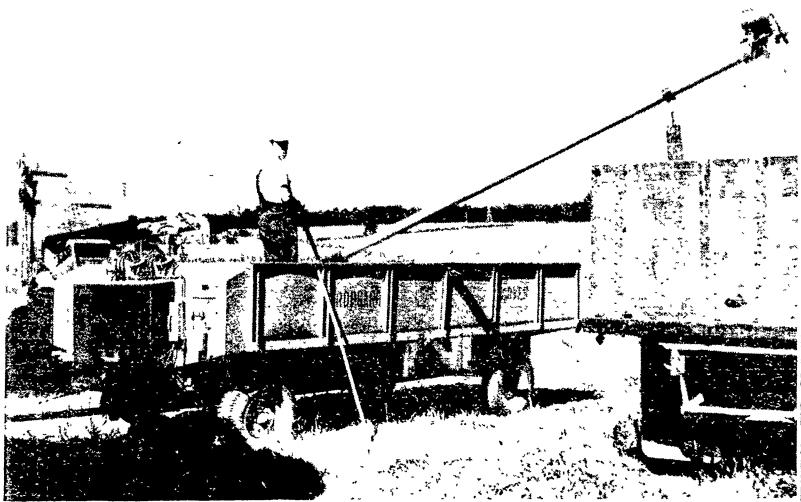
A special low-temperature precooking step permits the use of many low solids varieties of potatoes in manufacturing this product ARS researchers have recently found that cooling the potatoes after precooking makes the process even more widely daptable so that its now possible to produce excellent potato flakes from potatoes with a solids content as low as 17 per cent The cooling step also results in smaller sized flakes — which means a greater weight of flakes can he put in each package

Poultry Marketing

(Continued from page twelve) The selection of the award win ner shall be the responsibility of the Poultry and Egg Nation al Board Technical Advisory Com-

ored suest at the innual banquet The recipient shall be an hon of the Poultry and L22 National Bond where he shall receive in appropriate plaque and honers to be designated by PENB Although in most instances the maid will be sayn to in individual research worker, the term recipient shall not be inter preted is precluding the eligibil its of a recarch team for the awei d

Nominations should be for warded to Dr. Milo S. Swanson ment University of Minnesota St Paul 1 Minnesota



the dired grain is transferred to the truck for hauling to

ROBERT USES A shovel to clean up after the augur as augur mount atop a cleosoted post behind the truck. This PLNB Technical Advisory Com system with the heavy motor above the post permits mittee Charman Poultry Deportthe storage-milling site on the "home" farm. Note the easy handling of the augur another Hess labor saver LF PHOTO