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slow on this holiday week and receipts were light or losses could have been greater. Packer needs were only minimal as most area slaughterhouses were on a reduced schedule. Western feedlots had yet to move all of their showlists by Thursday afternoon, but trade had established 100-150 lower at 68.00 live and 108.00 dressed. Local Holstein steers managed to hold steady this past week. Slaughter cow trading was active early in the week, with most Southeastern markets closed for the holidays. However prices slipped lower on Thursday to end mostly steady, after trading 100-200 higher early. Demand was good for Holstein bulls, but prices still ended 100-200 lower than last week's active market. Supply included 37 percent slaughter steers, 7 percent slaughter heifers, 41 percent slaughter cows, 5 percent bulls, with the balance mostly feeders.

SLAUGHTER STEERS High Choice and Prime 2-4 1105-1460 lbs 69.50-73.50 Choice 2-3 1125-1515 lbs 68.00-71.00, few high dressing 1-2 up to 71.50 Select and low Choice 2-3 1115-1505 lbs 62.75-69.00, 1505-1590 lbs 60.75-62.00 Select 1-3 985-1480 lbs 58.00-66.75, package returning to feed 1245 lbs 58.75

HOLSTEIN STEERS Choice, few Prime 2-3 1125-1680 lbs 57.50-62.00, few 1680-1765 lbs 55.00-55.85 Select and low Choice 2-3 1090-1555 lbs 53.85-57.85 Select 1-2 1075-1505 lbs 49.75-54.50

SLAUGHTER HEIFERS High Choice and Prime 2-4 1145-1305 lbs 68.75-70.60 Choice 2-4 1100-1450 lbs 64.75-69.50 Select and low Choice 2-3 1015-1420 lbs 61.75-66.25 Select 1-3 925-1280 lbs 57.00-65.00

SLAUGHTER COWS PERCENT LEAN WEIGHT BULK LOW DRESSING

Breakers 75-80 pct lean over-

1400 lbs 39.00-43.75 36.50-41.25 Boners 80-85 pct lean over- 1200 lbs 37.00-42.50 35.00-39.00 Lean (Hi-Yield) 85-88 pct lean over-1200 lbs 36.75-41.00 34.00-38.50 Lean 88-90 pct lean over-1000 lbs 34.00-38.75 30.75-35.75 Lean (Light-Wt) 85-90 pct lean 750 -1000 lbs 30.75-37.00 26.00-33.00

SLAUGHTER BULLS Yield Grade 1 1400-1965 lbs 47.00-56.25, couple heavy muscled 1600-1880 lbs 60.75-62.75 Yield Grade 2 1070-2280 lbs 40.00-47.75 **BULLOCKS** Select 1-3 805-1285 lbs 45.25-57.00

CALVES Compared to last week, veal calves finished the week strong with increased demand for veal right before the holidays and prices ended 5.00-10.00 higher. Larger slaughter calves were only lightly tested late in the week. Just as it looked like Holstein bull feeder calf prices were on their way down, the market set new highs for the year on Thursday. Bull calves bound for special-fed veal barns closed the week 20.00-40.00 higher. Holstein heifers ended mostly steady to weak.

VEALERS Good and Choice 70-110 lbs 18.00-42.00, late mostly 25.00-32.00 Standard and low Good 60-90 lbs 10.00-25.00

SLAUGHTER CALVES Good and Choice 200-350 lbs 75.00-105.00, 350-550 lbs 55.00-85.00

RETURNED TO FARM Holstein bulls 90-125 lbs 145.00-190.00, 80-95 lbs 76.00-165.00 Planer-type 95-125 lbs 132.00-165.00, 80-95 lbs 35.00-129.00. Holstein heifers 80-110 lbs 240.00-327.00. Planer heifers 85-130 lbs 100.00-230.00, 70-85 lbs 90.00-125.00

Penn State Ag Engineer Receives Black Award For Research

UNIVERSITY PARK (Centre Co.) — Harvey Manbeck, distinguished professor of agricultural engineering, recently received the 1999 Alex and Jessie C. Black Award for Excellence in Research.

Manbeck is a renowned researcher in wood engineering and structural design. His work on hardwood timber bridges and post-frame buildings has been recognized nationwide. He is a member of the structural system group in Penn State's Housing Research Center and a member of the Pennsylvania Transportation Institute.

"Having the opportunity to combine engineering research with graduate and undergraduate education has been one of the joys of my life," Manbeck said. "Without question, the most rewarding aspect of my research career is being a part of the intellectual growth of young engineers as they develop a broad spectrum of research skills."

Alex Black and his wife, Jessie, endowed the Black Award for Excellence in Research, which offers a \$1,000 honorarium and plaque. Alex Black retired from

Penn State in 1969 following a distinguished career in research, teaching, and administration.

With colleagues from the School of Forest Resources, Manbeck created a project to develop structural glue-laminated products from undervalued and underutilized Pennsylvania hardwoods such as red maple. The project has developed design standards for glue-laminated hardwood highway bridges. Several timber bridges have been installed based on the group's research and design specifications.

"His astounding accomplishments as a researcher and teacher attest to his distinguished career," said Roy Young, professor and head of agricultural and biological engineering. "Young engineers could have no better role model of a professional."

Manbeck also is an expert on poultry housing and has advanced the definition of structural loads for grain storage facilities. He is a founding member of Penn State's Particulate Materials Center, where his research helped define the mechanical behavior of granu-

lar materials. His early research focused on the interaction between structural bin walls and stored grains.

His national and international research awards include the Henry Geise Structures and Environment Award in 1990 and the Engineered Timber Bridge Award from the National Forest Products Association in 1993. He has won numerous teaching awards, including Penn State's George W. Atherton Excellence in Teaching Award in 1991.

Manbeck was named distinguished professor of agricultural engineering in 1996. He started his academic career as an assistant professor of agricultural engineering at the University of Georgia in 1970. From 1975 to 1977, he was an associate professor and extension agricultural engineer at The Ohio State University. He returned to the University of Georgia in 1977 and came to Penn State as a full professor in 1980. He served as interim director of the Housing Research Center in 1995.

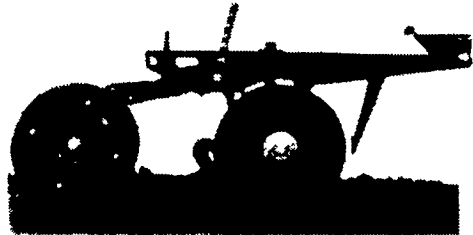
He earned his bachelor's and master's degrees in agricultural engineering from Penn State in 1963 and 1965, respectively. He earned his doctorate in agricultural engineering from Oklahoma State University in 1970.

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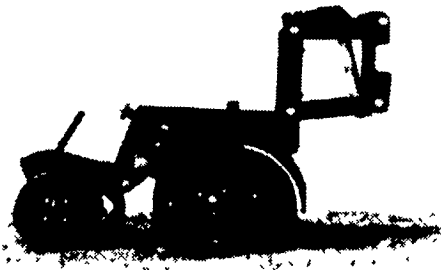
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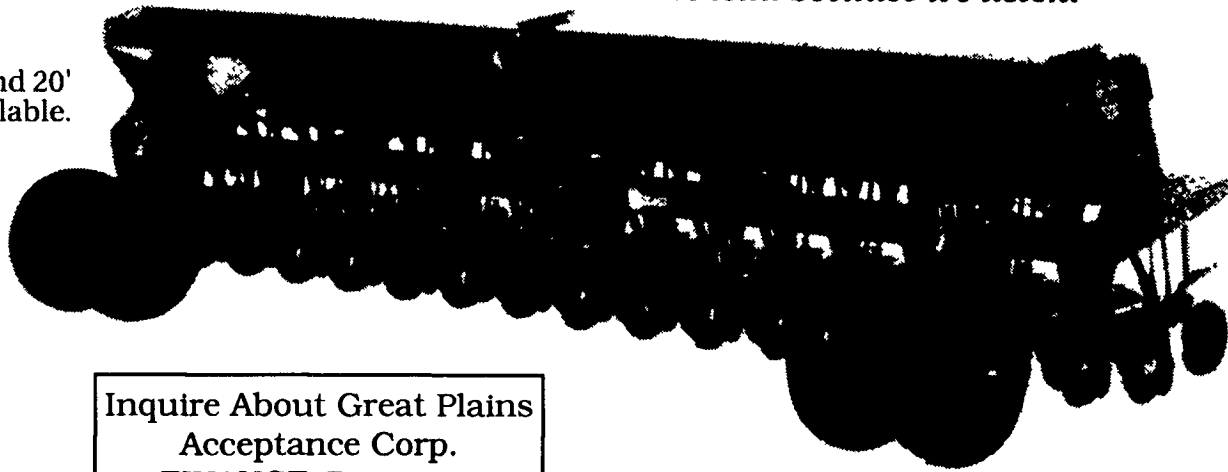
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