

Livestock market

Weekly Summary Friday, September 23

Markets: 14
CATTLE: 6983. Compared with 7836 head last week and 7336 head a year ago. Compared with last week's market: Slaughter steers & heifers unevenly steady; SI. cows mostly steady to 1.00 higher; SI. bullocks strong to 1.00 higher; SI. bulls steady to 2.00 higher. SI. steers: High Choice & Prime No. 3-4, 61.75-65.35; Choice No. 2-4 58.50-62.75; Good 53.00-58.50; Standard 46.00-53.00. SI. heifers: Choice 55.00-58.50; Standard 46.00-53.00. SI. cows: Utility & Commercial 38.50-43.00, few 43.50; Cutters 36.00-40.50; Canner & L. Cutter 33.00-38.00; Shells down to 20.00. SI. bullocks: Choice 54.00-58.00; Good 51.00-54.50; Standard 49.00-51.50. SI. bulls: Yield Grade No. 1, 1000-2400 lbs. 47.00-54.25; Yield Grade No. 2, 900-1450 lbs. 42.00-51.00.
FEEDER CATTLE: Steers, Large Frame No. 1, 400-650 lbs. 54.50-58.00; Medium Frame No. 1, 300-650 lbs. 47.00-55.00, few to 60.00. Heifers, Medium Frame No. 1, 300-700 lbs. 35.00-53.00.
CALVES: 4481. Compared with 5169 head last week and 4591 head a year ago. Vealers steady to 5.00 lower. (few) Prime 94.00-110.00; Choice 71.00-91.00; Good 63.00-78.00; (few) Standard & Good 110-130 lbs. 52.00-65.00; 90-110 lbs. 40.00-53.00; 65-90 lbs. 35.00-48.00; Utility 50-110 lbs. 27.00-40.00.

FARM CALVES: Hol. Bulls 85-125 lbs. 50.00-95.00, mostly 55.00-83.00; Hol. Heifers 90-140 lbs. 40.00-81.00, mostly 50.00-66.00.
HOGS: 7202. Compared with 7517 head last week and 7303 head a year ago. Barrows and gilts highly uneven. US No. 1-2 200-245 lbs. 47.00-48.50. No. 1-3 200-255 lbs. 45.50-47.50; No. 2-3 200-285 lbs. 43.00-46.25; No. 1-3 140-190 lbs. 38.00-41.60; Sows steady to 1.00 higher. US No. 1-3 300-625 lbs. 35.00-39.75; No. 2-3 300-725 lbs. 28.75-37.00. Boars 28.00-31.50.
FEEDER PIGS: 1081. Compared with 1733 head last week and 1517 a year ago. 1.00-3.00 higher. US No. 1-3 20-35 lbs. 9.00-19.00 per head; No. 1-3 35-50 lbs. 18.00-29.00; No. 1-3 50-80 lbs. 24.00-30.00.
3 GRADED FEEDER PIG SALES: 3071. Compared with 2830 head last week, and 3331 head a year ago. All sales by CWT. Feeder Pigs uneven, extremes 10.00 higher to 6.00 lower. US No. 1-2 20-40 lbs. 50.00-68.00, 40-50 lbs. 42.00-62.00, 50-60 lbs. 41.00-55.00, 60-75 lbs. 41.00-59.00; US No. 2-3 20-40 lbs. 45.00-64.00, 40-60 lbs. 40.00-49.00.
SHEEP: 937. Compared with

2082 head last week and 1158 head a year ago. Spring lambs steady to mostly 2.00 higher. High Choice & Prime 75-110 lbs. 43.00-58.00; Choice 65-105 lbs. 32.00-50.00; Good 50-85 lbs. 30.00-44.00. SI. ewes: 8.00-23.00.

Chambersburg Auction Chambersburg, Pa. Thursday, Sept. 22

Repor supplied by auction
CATTLE: 411. SI. steers Choice 59.00-61.75; Good 53.50-58.00; Standard 47.00-53.00. SI. heifers: few Choice at 58.00; Good 54.00-55.00; Standard 45.00-49.00. SI. cows: Utility & Commercial 39.00-43.00; Cutters 33.00-36.00; Canner & L. Cutter 30.00-31.50; Shells down to 26.50. SI. bulls: Yield Grade No. 1, 44.75-47.60.
CALVES: 523. Prime 94.00-98.00; Choice 79.00-90.00; Good 55.00-77.00; Standard & Good 90-110 lbs. 48.00-52.00; 70-90 lbs. 44.00-48.00.
FARM CALVES: Hol. Bulls 90-110 lbs. 53.00-95.00; Hol. Heifers 90-120 lbs. 54.00-60.00.
HOGS: 144. Barrows and gilts 1-2 45.00-46.35. Sows US No. 1-3 37.00-37.75. Boars 28.75, 200 lbs. 30.00-34.00.
FEEDER PIGS 17. US No. 1-3 30-50 lbs. 18.00-28.00 per head.
SHEEP: 6 Good yearlings 33.00-38.00. Goats: 15. 18.00-55.00.

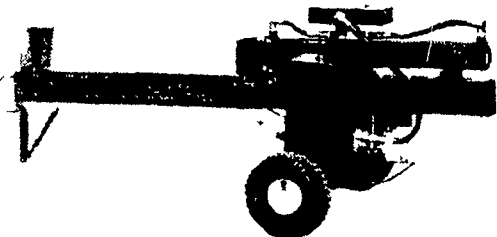
Papaya compound stops velvetleaf

PEORIA, Ill. — A compound extracted from papaya seed stops germination and seedling growth of velvetleaf, a common corn-field weed, but does not affect corn. In USDA laboratory studies here, less than 90 parts of the papaya compound in one million parts of water, "completely inhibited" velvetleaf seed germination. Rebecca B. Wolf, plant physiologist, says, "Corn was unaffected even at concentrations of almost 150 parts per million of the compound."
 Wolf and Gayland F. Spencer, research chemist, extracted the compound, benzyl isothiocyanate, from ground papaya seed with solvents in the first study reported from a new search at the Northern Regional Research Center for natural seed germination inhibitors. "We don't want to suggest that benzyl isothiocyanate would be useful or practical in the field since we have no knowledge of that sort of application," Wolf says. "Greenhouse and field studies are necessary to determine, for example, whether seedlings that survive the treatment in the laboratory would be viable in the field." Information on dosage, longevity and side effects would be needed also before the papaya compound could be used. The concentration that stopped velvetleaf germination, 90 parts per million, reduced soybean germination 28 percent, Wolf says. Velvetleaf, also called butterprint and piemarker, *Abutilon theophrasti*, grows in soybean and corn fields throughout most of the U.S. Agriculture Handbook 366, "Selected Weeds of the U.S.," indicates it is "of great economic importance" in Missouri, Illinois, Indiana, Ohio, Kentucky, Tennessee, the Virginias and parts of adjoining states. The same concentration of papaya compound that killed 3-day old velvetleaf seedlings, about 60 parts in one million parts of water, reduced weed seed germination 72 percent. It reduced soybean germination 11 percent. "Many plants produce chemicals that are harmful to other species and help to reduce competition in their natural habitats," Wolf says. The benzyl isothiocyanate found in papaya, *Carica papaya*, is found also in the cabbage family, Cruciferae, and in the nasturtium family, Tropaeolaceae.



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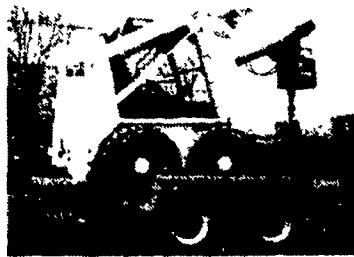
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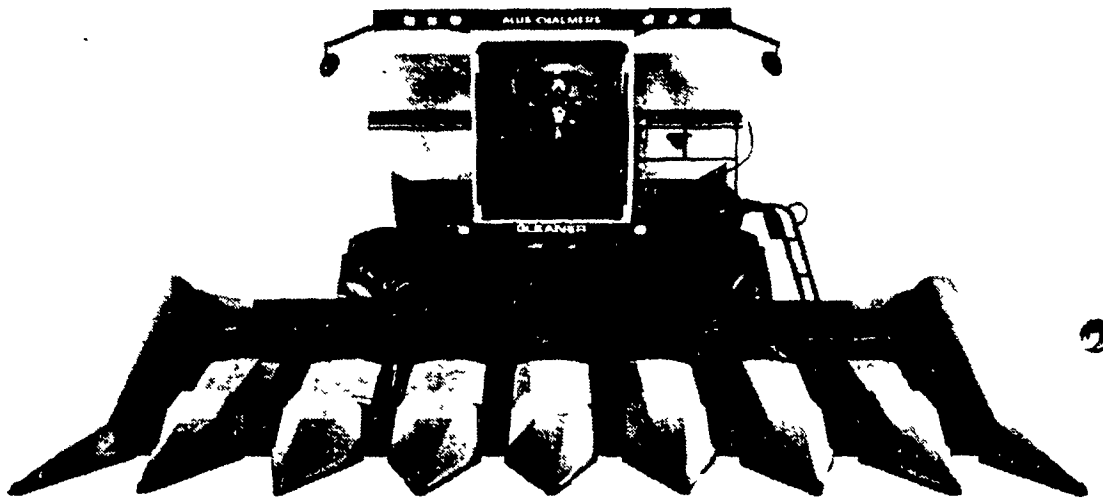
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