22-Lancaster Farming, Saturday, March 15, 1969

Apollo 9 Photographs Farms For Signs Of Drought, Disease

mance of a battery of four 70millimeter cameras.

Some time after the fifth day of the Apollo 9 flight, the astronauts turned their attention to the multispectral photography experiment which was one of the most important tasks remaining until deorbit and splash-down. One of the areas lands. photographed was to be Arizona know if orbital photography why, disease, bugs, drought?

become operational, they could sensitive to all three color provide information that would bands. afford farmers enough time to save their crops

9 flight were programmed in diseased ones by the way they part by USDA's Agricultural reflect sunlight and early signs Research Service and Forest of drought by the way water-Service. While photographs of starved crops appear in sequen-

When the astronauts of Apol- fore by most of the astronauts, lo 9 returned to earth this week. no one has ever deliberately they may have brought back in- shot photos of farmland. It is formation that could help to hoped that the four cameras, solve the problems of hunger. operating from a height of 120 The answer lies in the perfor- miles, will have uncovered different types of change in the terrain.

The still photographs are expected to show the type of crop in large fields, the vigor of these crops, and whether or not they are diseased. Similar information will be obtained on the nation's timber and grazing

Four film filter combinations, farm lands Along with U.S. De- developed over the last five partment of Agriculture scien- years, comprised the phototists, the astronauts wanted to graphic experiment Apollo 9's astronauts performed for can detect signs of drought and USDA: camera 1 exposes only plant disease - if a certain for green wavelengths; camera field lacks vigor, to find out 2 exposes only for red wavelengths: camera 3 exposes only Success could mean that, for near infrared; and the when experiments such as this fourth camera includes film

Scientists believe that the Apollo 9 cameras will be able Earth pictures for the Apollo to determine healthy crops from

the earth have been taken be tial photos. They predict that

ultimately, cameras and other, more elaborate instruments in space will be of great help in assuring the nation's food supply.

The more elaborate equipment may be able to tell if soil in a location is suitable for growing a particular crop, and spot overgrazing of ranges before it happens.

At the same time the astronauts were photographing the primary test area for space, conventional aircraft photographer the same areas from altitudes of 1,000-1,500 feet and 18.000-20,000 feet.

The purpose of the coordinated photo mission was to establish a correlation between what the astronauts picture and what the scientists photograph near the ground.

The Committee on Science and Astronautics, in a recent report, said the successful use of remote sensing from space presents the National Aeronautics and Space Administration an opportunity "to achieve tangible economic returns from the substantial investment already made by the American taxpay er in the United States space program."

Forage Crops

Alfalfa continues to rate as Queen of the forage crops; however, in the recent decade the alfalfa weevil has been a major problem and has decreased the value and the popularity of this legume on some farms. We are told of some progress in plant breeding work to produce a strain of alfalfa that is resistant to weevils. The work is being done at several research stations but seed will not be available for at least one or two more years. Growers are urged to keep alert for the progress of this work and to learn if the varieties are adapted to southeastern Pennsylvania. In the meantime the established Geib & Hossler, Auctioneers spray schedules of recent years should continue to give us the best known protection.

and a second PUBLIC SALE OF FARM EQUIPMENT, PERSONAL PROPERTY

AND ANTIQUES To Be Held SATURDAY, MARCH 29, 1969

Located 4 miles Northwest of Manheim, near East Fairview Church of the Brethren, Rapho Twp., Lancaster Co., Pa.

Allis Chalmers G Tractor with plow & cultivator, Ferguson Tractor with loader, Ferguson 7 ft. grass mower, MC 28 disc harrow, roller harrow, 3 pt. corn planter, 2-wheel trailer, potato plow, air compressor, platform scales, David Bradley garden tractor with cultivator & cycle bar, roll snowfence & posts, lawn mower, Wright power-saw, 8 ton hydraulic jack, ½ in. elec. drill, anvil, socket set, 32 ft. ext. ladder, 20 ft. tree ladder, step ladder, forks, shovels, tomato baskets, stripping room stove.

Frigidaire 4-burner elec. stove, Frigidaire refrigerator with freezer, Monarch coal range, 12 cu. ft. freezer (chest type), kitchen cabinet, Black Stone washing machine, ext. table with 10 boards, small tables, china closet, buffet, 6 chairs, piano & bench, lounge chair, book case with glass doors, 3 pc. living room suite, roll-top desk, piano stool with claw feet, Singer sewing machine, side board, clothe trees, childs bed, 2 bedroom suites, other bedroom furniture, 2 blanket chests, Empire chest of drawers, Empire secretary, marble top wash stand, jelly cupboard, wood chest, flour chest, 3 sets of 6 plank bottom chairs, 1 high back rocker, cherry drop leaf table, porch furniture, 12 guage shot gun, 32 single shot rifle, meat slicer, meat grinder, metal tubs, wood tubs, old fashioned cradle, dough tray, cheese molds (heart shape), butter molds, candle mold, set of sleigh bells, cow bell, dinner bell, picture frames, 3 - 9x12 rugs, throw rugs, chime clock, Victor adding machine, jugs, crocks, dishes, pots, pans, jars, books, and many other items.

Sale to begin at 11 O'CLOCK SHARP. All Farm Items will be sold first.

Sale by

WILLIS R. PETERS, ESTATE

Food Stand — Mastersonville Fire Co.



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John Maust Farm, 5 miles NW of Somerset off Hus band-Edie Rd.

TUESDAY, MAR. 25, 1969 10:00 A.M.

Tractors and Farm Equipment

Massey Ferguson model 300 self-propelled combine, like new; John Deere 3020 Diesel, wide front end, 1000 hours, power steering; Farmall 504, 1500 hours, row crop type; Allis Chalmers WD 45, wide front end; John Deere 4-bottom pickup plow for 3020; New Holland forage harvester 717, like new; New Holland forage wagon, self-unloading, with high sides; New Holland #36 Field Chopper, 6 ft.; International 4-row #56 corn planter, new type, like new; New Idea corn picker, good shape; New Holland model 271 baler; John Deere #10 side-mounted mower; John Deere No. 22 hay conditioner; New Holland No. 56 rake; New Holland elevator; New Holland 130 bushel PTO manure spreader; 12 ft. Cultipacker like new; Ontario 17 disc grain drill; John Deere 12 ft. fertilizer and seed spreader on rubber; Walsh weed sprayer with 27 ft. boom; John Deere 6 & 4 section harrows; 5 extra good hay wagons, 2 with grain and hay beds; snow plow for John Deere 3020; John Deere hammermill; International dump trailer; International corn binder; 2 wagons with boxes for corn picking; Homelite chain saw with brush bow; 2 feed carts; Hog feeders; 3 sets tractor chains; large umbrella; 2 tractor cabs for John Deere and Allis Chalmers; drill press; vise; chains; grabs; picks; belts; 5 and 10 gallon milk cans; milk scales; cow clippers;

- hoof trimmers; Rheem 80 gallon water heater; gas stove fo milk house; DeLaval milker pump; Butchering tools; copper kettle; 2 iron kettles; sausage grinder and stuffer; scalding trough; Allis Chalmers cultivator; barn fogger; water tank on trailer.

FEED AND GRAIN Hay and Straw by the ton; approx. 1000 bu. Oats

1964 Chevrolet 34 ton T license truck, dual wheels.

HOUSEHOLD GOODS AND ANTIQUES

Round oak kitchen table and chairs; plank bottom chairs; crocks and jugs; Admiral refrigerator; 3-pc. living room suite; wash stand; chest of drawers; three 9x12 rugs; large wall clock; dry sink; some dishes; gas and coal range; porch swings; library table; oil lamps; flax reel; gas iron: 2 heating stoves; side board; gold-frame mirror; sugar trough; 2 apple peelers; round heating stove.

TERMS CASH

Lunch will be served.

All Machinery in Good Condition

ERNEST & WM. MAUST

Owners R. D. 3, Somerset, Pa.

Phone 445-5038

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Merle S. Mishler — Auctioneer Davidsville 479-4897

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