Feathers, Skin Condition Of Birds Reveal Problems

Associate Professor Of Poultry Science Penn State University

Feathers are frequently forgotten in health planning by most flock managers. All birds have several thousand feathers growing from follicles; each feather in its own follicle is controlled by many small muscles.

Bird health can be predicted by skin or feather condition on the live bird but most flock managers do not use this.

Let's assume each feather grows one to five inches long in five to 15 weeks time, depending on bird health, or its environment, nutrition, or the genetics of the bird. Therefore we see a possible equation: if 9,000 feathers on a turkey grow to an average length of three inches in seven weeks, we

ANNAPOLIS, Md. — May-

nard and Jane Gorssnickle of My-

ersville in Frederick County re-

cently received a Good Earth

This is for outstanding achieve-

ment in conserving soil and water

resources and is presented by the

National Endowment of Soil and

The award was presented at the

annual meeting of the Agricultural

Communicators in Education in

St. Paul, Minnesota. The Gross-

nickles were also honored at the

Maryland Association of Soil

Conservation Districts' annual

summer meeting. One winner was

named from each state in this na-

The Grossnickles were cited for

the comprehensive resource man-

agement system they implement on their farm. This includes crop-

land conservation tillage methods,

Family Award.

Water Conservation.

tionwide competition.

have 27,000 inches of feather growth in 49 days or 22.95 inches of feather growth per bird per hour for the entire seven weeks. This requires considerable nutrition and energy.

This feather growth can be stunted, slowed, distorted or stopped if the bird is sick or poorly cared for. If feathers look too short, dirty, twisted, and not complete, look for one or more of the following factors contributing to the problem:

- Too many birds in one pen so that each bird does not have enough space.
- Lighting too intense and too long a light day length so light becomes a stress.
- Not enough litter or litter too dirty or not dry enough. Wet or dirty litter causes toxic gas to be generated to slow feather growth as the bird breathes the gas.

Farm Family Wins Conservation Award

cover crop and crop residue usage,

contour stripcropping to reduce

erosion, grassed waterways in

drainage areas to control runoff, a

buffer area along the streambank,

an animal waste management sys-

tem, and pastureland laid out to

maximize use and regrowth of for-

age. In addition, the Grossnickles

have woodland and areas on their

The state winners were selected

from among several nominees by

agricultural and conservation

The awards program, created

and run by the National Endow-

ment for Soil and Water Con-

servation as an activity of its Good

Earth Council, honors Good Earth

Families who do an especially ef-

Managing soil and water re-

Preventing or reducing air and

farm for wildlife.

leaders.

fective job of:

· Cannibalism (where birds peck each other to death) can be made worse by inadequate nutrition, failure to feed boiled oats, or some other cannibalism retardant or birds that feel miserable and kill each other because air in the pen is too hot, humid, and stale. We must give birds more room and more fresh air. Adequate amounts of fresh, cool drinking water helps prevent cannibalism. Feather picking or pulling can cause skin or feathers to be severely dam-

the particular breed or strain of 1086 IH, dual PTO, TA, bird, age of bird, or rate of bird good rubber, ROPS, locks performance. Low quality protein, fanty fat in the feed, or inadequate or 717/423-6719. excessive vitamins, minerals, electrolytes, or fiber in the feed 125 hp 471 Detroit diesel can cause abnormal feather w/1000 RPM, PTO gear-

water pollution from agriculture

protect natural resources

Helping other producers and

"In this year of the 20th anni-

Maryland Secretary of Agricul-

ture Wayne A. Cawley Jr.

ley said.

December.

· Poisoning birds from a misused coccidiostat or other medicine or careless use of pesticide or herbicide or heavy metal. A mineral or metal that has to be present for bird health at a low level, but which at high level is toxic, can cause feathers to break. Copper at

500 ppm in the ration appears to cause this condition. Be careful not to overfeed copper sulfate.

Observe feathers every day and expect feathers to be normal. Normal feathers harvested without damage can sometimes be sold for a reasonably high price.

FARM EQUIPMENT

1047 NH self propelled bale wagon. Great shape
Asking \$11,000. Leave
message. 717-376-2116

and runs like new. Will war-

\$3,800. 125 hp 471 Detroit diesel powerunit w/hoods, straight clutch, \$3,800. 90 hp 371 Detroit, fan thru fly-wheel, \$1,600. 350 hp

13 ft. Floating Cutter Bar Assembly & Straw Chop-per for Gleaner F Combine, the public learn how and why to \$300. 814/664-2661

15' flex head for gleaner L

15HP Wisconsin Engine w/

turf wheels, new 18HP Te-"The Grossnickles prove that cumseh engine, 43" bucket farmers understand the land and the value of using it wisely," Caw-717/367-7989.

The Grossnickles, along with 1155 MF w/duals, cab and the other state winners, will vie for air, original paint, 3400 further national honors. Their ac-hours, good condition, complishments will be evaluated Cultipacker, \$750. Delivery by a technical advisory commit- available. 717/534-1253.

1976 3300 JD diesel combine, w/213 head and 244

1976 Black Stripe 1066 factory cab and air, dual wheels, dual PTO and dual hydraulics, \$8,500. 609/455-3462.

profile, very good condition, no heads, \$7,000. Call after 6 p.m. 301-348-5247 1980 IH 1480 combine w/8 row 30" com head & grain

1983 6620 Side Hill, very sharp, sheded, 1,495 hrs. \$36,500. Larry Stalter, "The Combine Man"

1987 JD 3RN corn head to fit forage havesters (717)483-6521.

.2000 tobacco lasts. JD 2RW forage harvester corn

2300 gallon Badger liquid manure tank, vacuum or spreader, tandem axle, flotation tires, \$3,500.; 1500 gallon Martin spreader, \$2,500.703-433-8582

hydrostatic w/rotary screen, 1747 hours, 1 owner, electronic monitors heater, air, other options \$12,000, JD 443 low profile, 4RN, quick change corn head \$4000; BOTH \$15,000 814-684-1389 af-

8V71T Detroit takeout engine, (717)733-3890. \$3,800

or M. 717-548-2877.

versary of Earth Day, I congratulate the Grossnickles for winning tank for NH 66 Baler, \$225 this very prestigious award," said O.B.O. 301/838-0278

1816B Case skid loader

1963 Ford 15' grain dump

tee. Ten national finalists selected from the 50 will receive special re- 1969 Ford 2000 Tractor cognition this fall. From the 10 with Ford heavy-duty mowfinalists, three national winners and 6' grader blade to hook will be honored in Washington in on 3-pt. hitch. \$4,500.
December 215/588-2872 or

> corn head, always been shedded, \$6,800. 609/455-3462.

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platform, 2,700 hrs \$24,000. 301-648-5751. Between 5 p.m & 7 p.m

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(2) 850 MF combines, working condition 1,800 hrs, choppers very 609-924-6665 good, \$19,500/each Larry 3010G JD, actual 1300 Stalter "The Combine hours 354G Int w/606 Man". 1-800-248-2151

manure tank w/injectors, condition. 301/941-1113 excellent condition, 319 NI corn picker, 12 roll **\$**4,900. 717-687-6844

2 JD 3800 harvesters, 1 w/ 2 JD 3800 harvesters, 1 W condition. Callong tongue, \$850/each 717/966-2975 after OBO; 2RW com head, and 6:30PM or 717/966-0494 hav head available. Oliver hay head available; Oliver 74H 2 row mounted corn 320 JD tractor, 2 cylinder picker \$175 OBO. Carlisle, w / c u I t i v a t o r PA 717-258-6639. 301-795-1995.

(2) JD 820, one with cab, MF 65, new motor, new husking bed, good condi-rubber; 1929 Model D; tion. JD A, very clean Styled Model D w/turning brakes; Unstyled AR 717/222-4432

2 NH 920 silage wagons heavy gears, good condition \$1100 each \$2000 both; Gehl CB800 chopper 2 row 30" corn and grass heads, good \$2500 OBO; NH hi throw blower #99 \$500. Mon. County. 609-259-2413 or 9513.

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hours 354G Int w/606 Woods belly mower 850G 2900 gallon Slurry Buggy Ford. All in good running

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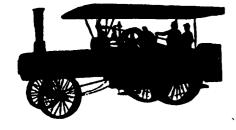
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