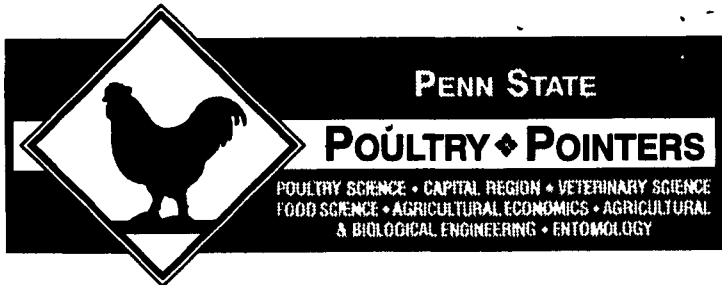


Top Protein Cows, Pennsylvania DHIA For March

(Continued from Page C6)

DUNWOOD FARM	2700 NEWARK ROAD	OXFORD	3	57.8	89.8	25566	1004	851
SOLID GOLD HOLSTEINS	R D 1	ENLEWTON	B3	73.2	89.1	26289 *	955	848
DAVID+CHRIS WILLIAMS	13 SWATARA ROAD	LEBANON	G3	62.5	86.0	26710 *	896	847
JAY W GOOD	RT 6 BOX 880	LEBANON	B3	63.7	88.6	26770	908	846
VALLEYS END FARM	R D BOX 118	REBERSBURG	B3	66.1	89.3	27525 *	983	846
MELWOOD FARM	RD 3 370 FAGGS MANOR	COCHRANVILLE	3	44.9	89.9	25812	996	845
FRANK MILLER JR	R D 2 BOX 2255	BANGOR	B3	56.7	89.3	26448	941	844
JAMES D DUNN	R D 1 BOX 160 M	NEW RINGGOLD	B3	65.8	87.1	26596	922	838
JOSEPH S STAYDUHAR	109 N NICODERUS ST	MARTINSBURG	B3	50.7	92.3	27699	975	838
JAN JURBALA	R D 1 BOX 52	ORANGEVILLE	B3	43.6	89.7	24235	917	832
PLAIN LINE HOLSTEINS	R D 5	TITUSVILLE	B3	59.7	82.3	25101 *	932	829
HILLTOPHEAVEN	R D 6 BOX 238	KITTANNING	B3	53.9	84.0	25668	998	829
BRAUND VALLEY FARMS	RD 3	TROY	3	101.7	85.5	25220	943	826
J GORDON HITTZ	203 CREST RD	LEBANON	B3	53.6	90.2	25035	951	826
R H D SHULTZ FARMS	R D 5 BOX 342	DANVILLE	B3	86.3	88.5	26299	968	823
STEPHEN J MELLOTT	6758 REMNINGER RD	MERCERSBURG	B3	115.2	89.4	25789	948	821
RON + LORI HEMBURY	R D 4 BOX 104	MUNCY	3	61.5	89.8	25718	965	820
GLEN & ARLEN LANDIS	R D 1	TROY	3	88.2	90.9	25809 *	917	818
TRINCA FARM	R D	REBERSBURG	3	61.9	87.3	25510	962	817
THOMAS W KELLY	R D 1 BOX 376	TYRONE	3	79.7	90.5	25888	971	814
CURTIS + ANN DAY	815 WUD LEVEL RD	SHIPPENSBURG	3	57.2	88.4	25125	1004	812
FRED & TOM STROUSE	R D 2	NORTHUMBERLAND	3	64.1	87.7	25678	993	812
FAIR VIEW DAIRY	R D 2 BOX 354	DAYTON	B3	80.8	91.0	25109	1020	809
RUSSELL MAPLE FARMS	R D 1 BOX 123	ROME	3	49.4	91.0	24323	891	808
THOMAS+SHIRLEY KRALL	R D 7 BOX 650	LEBANON	B3	89.1	91.9	24156	867	807
RICHARD W SMITH&SONS	4906 OLD CARRIAGE RD	NORTHAMPTON	3	85.1	86.9	24789	904	807
EMERY-RICK DAVIS	R D 2 BOX 67	MIDDLEBURY CENTER	B3	73.1	88.6	24430	927	806
MATT WILL B&W	BILLAGINNY DAVIS R 2	TROY	3	60.3	88.7	24683	916	805
STONE HART FARM	1749 MERCERSBURG	ST THOMAS	B3	114.6	89.8	24412	909	805
ARNOLD ACRES	R D 2	LEBANON	3	58.3	88.5	24618	865	804
JAMES RODCHOK	200 WICONISCO AVE	TOWER CITY	3	72.7	89.5	24377	792	804
RICHARD R HIGLEY	R D 1 BOX 1287	FORKSVILLE	3	92.6	88.7	24602	932	802
RODRICK&TRUDY HINISH	R D 2 BOX 245	WILLIAMSBURG	B3	198.1	89.3	25172	841	802
RICHARD KRIEBEL	R D 2	BENTON	B3	64.4	90.5	24530	851	801
BRIAN RUCH	R D 1 BOX 2-A-1	ANDREAS	3	50.5	91.1	24211	825	801
LYNN WOLF	R D 1	ABBOTTSTOWN	3	95.4	90.8	24984	793	800

SCOTT BOWSER	R D 1 BOX 71	NEW BETHLEHEM	B3	50.2	89.0	24107	815	796
GRIFFIELD FARMS	R D 2 BOX 10	MARION CENTER	B3	72.0	90.1	24319 *	908	795
BLUE KNOLL FARMS	4300 LEWISBERRY RD	YORK	3	86.4	89.7	24605	802	794
MEADOW CREEK FARM	R D 4 BOX 182A	BEDFORD	B3	175.4	90.2	24686	898	792
GEARY E SHADE & SONS	R D BOX 449	ALEXANDRIA	3	97.1	92.1	23910	898	791
HARRY R MARKER	R D 1	LIGONIER	3	70.5	87.5	24946	832	790
IRVIN Z BRUBAKER	102 CREST ROAD	LEBANON	G3	65.5	88.6	25059	859	789
BONZO ONE-O-ONE	BOX 11 HUNTZ RD	ROCHESTER	3	31.1	91.1	24166	866	788
CARL A FARMS INC	R D 1 BOX 106	PITMAN	3	89.2	86.7	24633	907	788
SMYERS RICHLAWN FMS	2691 EAST BERLIN RD	YORK	3	75.2	88.0	25377	1001	788
PLEASANT VIEW FARM	R D 2 BOX 160	MARION CENTER	G3	130.8	91.1	24957	1104	787
BOSCH FARMS	R.D. 7 BOX 170	MUNCY	B3	56.0	90.3	24427	818	787
JOHN & ROBERT GRAHAM	R D 1 BOX 324	BOLIVAR	B3	52.4	90.3	24384	801	787
TROTACRE FARMS	R D 1 BOX 95A	ENON VALLEY	B3	53.9	88.7	24676	936	786
VALLEY WIDE FARM	R D 2	SPRING MILLS	3	87.4	87.2	25105	915	785
COVE VIEW FARM		CURRYVILLE	B3	97.7	89.9	24051	916	784
BROWN-CROFT FARM	R D 2 BOX 430	ROME	3	30.6	90.7	24660	1024	784
MAYPORT HILLS HOLST	R D 1 BOX 235	MAYPORT	3	52.4	90.2	24195	828	783
PAULA DELL HOLSTEINS	111 S MAVSVILLE RD	GREENVILLE	B3	61.8	90.5	24364 *	862	783
DARREN&CARYN PEACHEY	HCR61 BOX 26-D	BELLEVILLE	3	55.6	90.1	24536 *	864	782
BRUCE R HEILINGER	RD2 BOX344	NEWMANSTOWN	B3	18.5	86.7	24871	698	781
CHRISS+TRISH NIPPLE	R D 1 BOX 214 N	MT PLEASANT MILLS	3	51.4	91.9	23212	960	780
WOODS DAIRY	WATER ST EXT	EDINBORO	B3	92.0	85.2	24561	832	780
GEORGE&DAVE BANICKY	R D 2 BOX 230	THOMPSON	3	51.0	92.3	23888 *	905	779
CARL Z GOOD	27 MILL RD	MYERSTOWN	G3	55.7	89.6	25005	896	779
CLAIR & PAT THROSH	R D 1 BOX 59A	ULSTER	3	59.8	89.1	23418	820	778
GLEN + TRACEY HENRY	R R 2 BOX 1325	PORT ROYAL	3	41.7	89.0	24170	885	778
RONALD P DAVIS	STAR ROUTE	WARREN CENTER	3	42.6	88.5	23378	1019	777
DAVID&SHARON BISHOP	4818 CURLY HILL RD	DOYLESTOWN	3	109.3	90.6	24499	896	777
DARE E LAND	R D 1 BOX 116	MT PLEASANT MILLS	B3	21.9	94.8	24054	938	775
DAVID NANCY BISHOP	R D 2 BOX 168	WILLIAMSBURG	G3	45.2	88.5	25050	860	775
RICK HARSHEMAN	5497 HESS BENEDICT	WAYNESBORO	B3	31.8	88.0	24606 *	941	775
JESSE L SPICHER	R D 2 BOX 470	BELLEVILLE	3	36.6	91.0	23663	916	774
LUKE BRUBAKER	81 KREIDER RD	MYERSTOWN	B3	81.4	83.6	24359	783	774
JOHN + SHARON KLIME	610 S RAMONA RD	MYERSTOWN	3	69.8	86.0	24384 *	854	774
JAY HOUSER	R D 2	SPRING MILLS	3	74.6	88.8	24170	955	773
DALE I KING	RD 2 BOX 427	BELLEVILLE	3	55.6	88.9	23924	929	772



HISTORY REPEATS ITSELF
Dr. Regina Vasilatos-Younken
 Associate Professor
 Dept. Of
 Poultry Science

In 1983, an outbreak of a mild form of avian influenza began in the U.S. and was allowed to spread

freely. Within six months, the virus had mutated to a highly virulent form that claimed more than 17 million birds, with costs in the tens of millions of dollars before it was ultimately eradicated by an aggressive program of quarantine and depopulation.

Now, the same scenario appears to be repeating itself just south of

the U.S. border in Mexico, where more than 25 million birds in three Mexican states are already infected.

Because initially when the virus surfaced last spring, infected birds contained only a mild strain of the virus confined to the lungs and gastrointestinal tract (GIT), Mexican officials were reluctant to take the "extreme measures" that were ultimately necessary in the U.S. But, as happened here, the critical mutations in the viral protein necessary to transform it into a highly virulent form occurred by the start of this year.

In order for the virus to infect cells throughout the body, its hemagglutinin (HA) protein must be altered in such a way that it con-

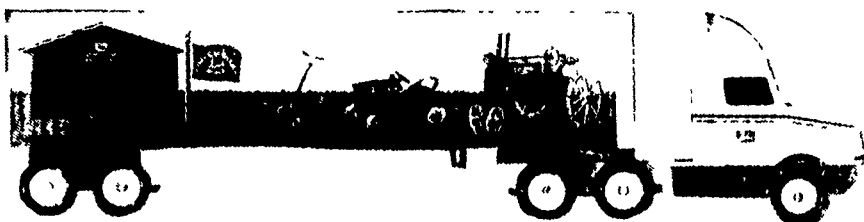
tains a series of basic amino acids. Once this type of mutation occurs, the protein is activated by enzymes throughout the bird. In mild strains of the virus, cleavage of the protein is limited to the lungs and GIT, where the necessary enzymes are produced. In the more virulent mutated form, the protein can be cleaved by an enzyme that occurs throughout the body, resulting in systemic infections with internal hemorrhaging and collapse of the central nervous system, as the brain becomes involved. In this form, mortality can range from 20 to 100 percent.

Because of the severe economic situation in Mexico, depopulation is deferred to containment and vaccination. But with limited supplies of vaccine, a widespread program

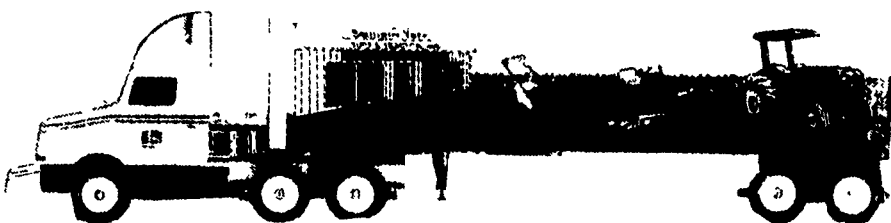
is impossible, with grandparent and breeder stocks receiving precedent over layers and broilers. By establishing strict control over traffic into and out of both infected areas and remote regions where breeder operations are maintained, the Mexican government hopes to preserve a source for repopulating the industry.

With the coming of spring, the movement of migratory waterfowl from South and Central America northward raises concerns, as some species are known to harbor the mild form of avian flu. With the lessons learned here over a decade ago, and their reinforcement through similar events in Mexico this year, experience is clearly on the side of the U.S. poultry industry.

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Base Replant Decisions On Careful Stand Evaluation

GOLDEN VALLEY, Min.—Conditions such as a late frost, hail, insect damage, or seedbed problems occasionally reduce stands, creating possible replant situations.

Because initial field appearances may not correspond to an equal yield loss, Mark Mattingly, Northrup King Co. agronomist for the Northeast, advises growers to evaluate the facts before deciding to replant a field.

Corn plants can and often will outgrow leaf damage, especially when the growing point is protected beneath the soil surface, Mattingly said. If new leaf growth appears within a few days after the injury, the plant is likely to survive and produce normal yields.

Before replanting a field, growers should consider the calendar date and the current level of stand reduction. The later the date, the higher the stand loss must be to

make replanting an economical option. Growers should also evaluate stand uniformity. Large gaps in plant stands reduce yields more than if the plants are spaced evenly.

The Northrup King agronomist emphasizes that yield gains from replanting must offset the extra costs of tillage, seed, and labor. Herbicides and insecticides may also need to be reapplied, adding additional expenses. In addition, replanting may delay planting other corn or soybean acres, jeopardizing their yield potential as well.

By following university and industry related guidelines, Mattingly said growers can make the best economic choice for their operation. For additional advice on evaluating potential replant situations, growers can contact a local Northrup King agronomist by calling (800) AGVISOR.

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