

Plug Temperature Not Related To Tightness

The relatively simple job of installing spark plugs is often complicated because of the conflicting reports of how best to tighten the plugs in their threads. Some experts are on record as saying that plugs must be final-tightened with a torque wrench to a specific torque value. Others

do not feel the torque wrench is a vital tool in this particular application.

To clear up the question, service engineers at the Champion Spark Plug Company conducted extensive tests on the subject. Their test program included Champion spark plugs only, and those Champions that are equipped with attached steel gaskets.

Here is what they found: Most of the heat from a

spark plug is dissipated through the plug's shell body, not through the gasket itself. Compression of the spark plug gasket, therefore, serves primarily to effect and maintain a good surface contact between the cylinder head threads and the spark plug threads.

To effect and maintain such a seal, the Champion spark plug needs only to be seated finger tight, then tightened about 1/2 additional turn with a suitable wrench.

To support this spark plug installation recommendation, they offer the comparative results of a typical in-the-field spark plug installation, using both the hand-and-wrench tightening technique and the torque-wrench-tightening technique. Spark plug temperature (as indicated through use of Champion's thermocouple spark plug) increased only about 1/2 of 1

Three Area Cows Top 100,000 Lbs.

Three cows in Lancaster County recently exceeded the 100,000-pound mark for lifetime milk and butterfat production totals, according to the Holstein-Friesian Association of America.

In this accomplishment, they join the elite ranks attained by 20,330 registered Holsteins that have passed this production milestone under the official breed improvement programs of the Holstein Association.

percent, even with spark plugs that were just a little more than finger tight. This amount of temperature increase is about one-tenth the amount that would occur if the initial ignition timing were over-advanced by as little as one degree!

Listed in the Holstein report are:

Red Rose Invincible Elnora has a lifetime total of 124,409 lbs. of milk and 4,692 lbs. of butterfat in 2,808 days. She is owned by Red Rose Research Center, John W. Eshelman & Sons, Lancaster.

Herlandia Beets Lou Sovereign has a lifetime total of 101,058 lbs. of milk and 3,670 lbs. of butterfat in 3,143 days. She is owned by Galen W. Herr, Elizabethtown.

Henket Rag Apple Emperor has a lifetime total of 102,911 lbs. of milk and 4,041 lbs. of butterfat in 3,875 days. She is owned by H. E. & Maybelle Kettering, Lititz.

Hilltop Stitchers Plan For Field Day

The Lexington 4-H Hilltop Stitchers met at the Brunnerville Firehall on June 24.

The group also discussed Field Day, which will be held on July 15, at Long Park, from 1:30 to 9 p.m. The group will swim at Woodridge, and then go to Long Park for evening supervised activities. The main event during the evening is the Posture Queen contest. The preliminary judging for this contest will be held on July 8, at the Penn Manor High School. The club candidates for this contest are: Candace Seiverling, junior candidate, and Mary Swarr, senior candidate.

Have You Heard?

(Continued from Page 9) the top with a mixture of melted butter or margarine and caraway or celery seed; use a half teaspoon of caraway seed and one-fourth teaspoon of celery seed for each three tablespoons of melted butter. Bake the pie as usual. Spoon a little barbecue sauce over the hot baked pie. Any one of these ideas may be used with frozen individual meat pies or with family size pies.

In recent years, pesticides have become a common tool of progressive farmers. Last year, nearly \$1 billion worth of pesticides were used to produce and protect agricultural and forest products in the nation.

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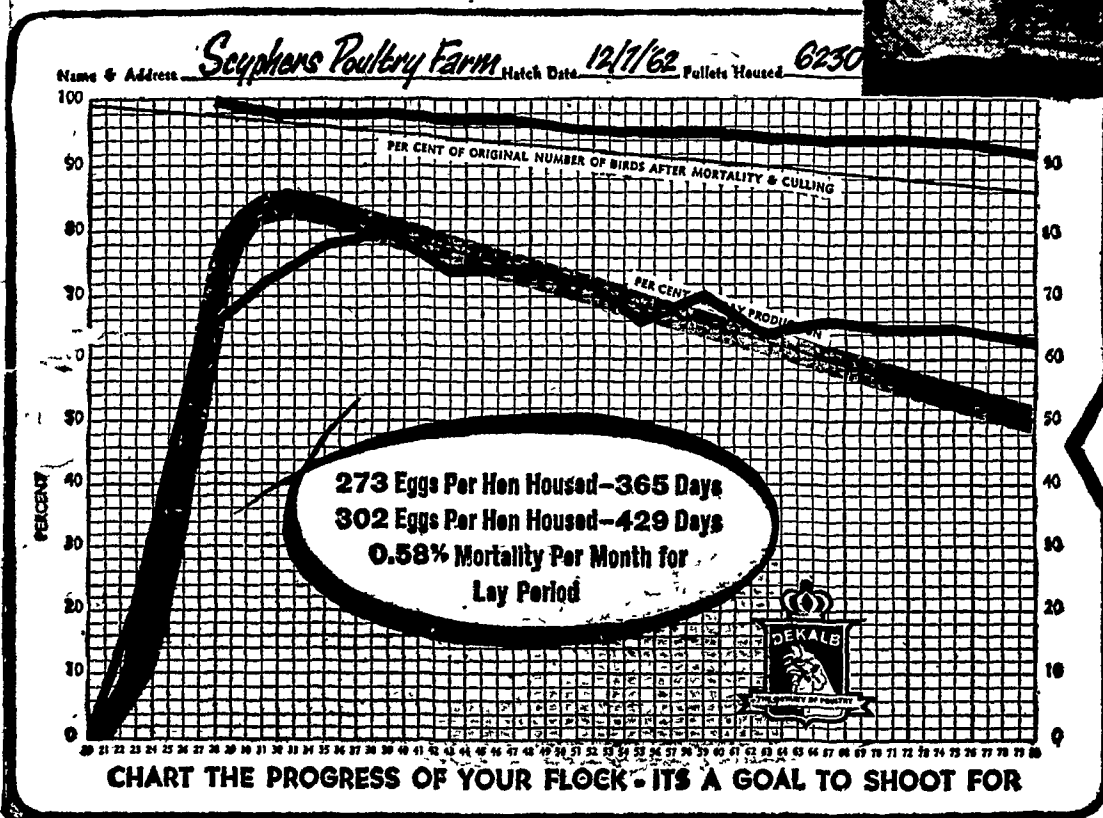
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Keep records and you'll keep DEKALB



Dave Scyphers, Sr., on left and Dave, Jr., on right in picture above.

PERFORMANCE RECORD OF SCYPHERS POULTRY FARM, HOLSTON, VA.

Actual Records Show PROFIT-POWER of DeKalb Pullets

Dave Scyphers, Sr., and his son, Dave, Jr., know the value of keeping accurate records—also the value of keeping DEKALB Layers. Above is shown the egg production and livability record of 6230 DEKALB birds housed June 1, 1963.

These DEKALB birds laid 273 eggs per hen housed in 365 days after 50% production was reached. After 429 days, hen housed production was 302 eggs. Mortality for the period was only 0.58% per month. See red lines on chart above.

Dave, Jr., says:—"This is definitely the most outstanding flock of layers we have had on our farm. Egg size and egg quality was excellent throughout this period."

Yes—IT PAYS TO KEEP DEKALB!

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1964 records from 27 commercial flocks of DeKalb Layers (average flock size: 4,531 birds), in a wide range of locations, show a combined average of 249 eggs per pullet housed during 12 months of lay.

