

### PREMIUM AWARDS AT STATE FAIR ANNOUNCED

(Continued from page one)

**Sow—Brown 1st.**  
Barrow under 300 lbs.—Scholl 1st and 2nd.  
Pea of 3 barrows over 300 lbs.—Nichols 1st; Scholl 2nd.

**Fat Barrows.**  
Barrow under 300 lbs.—O. A. C. 1st and 2nd.  
Pea of 3 barrows under 300 lbs.—O. A. C. 1st and 2nd.  
Barrow over 300 lbs.—O. A. C. 1st and 2nd.  
Pea of 3 barrows over 300 lbs.—O. A. C. 1st; Fox 2nd.

**Hempshire.**  
J. W. Ringer received the first premium on the following: Boar 2 years old or over; boar 18 months, under 2 years; boar 6 months, under 1 year; boar under 6 months; sow 2 years old or over; sow 18 months, under 2 years; sow 1 year, under 18 months; sow 6 months, under 1 year; aged head; get of sire; produce of sow; senior sow; boar, sow, boar; junior sow; junior boar, sow, boar.  
J. W. Ringer received second premium on the following: sow 1 year, under 18 months; sow 6 months, under 1 year; Boar 2 years old or over; Bunn, 1st; Boaner 2nd.  
Boar 18 months, under 2 years; Bunn 1st; Bonner 3rd; Ringer 2nd.  
Boar 1 year, under 18 months; Ringer 1st; Bunn 2nd.  
Boar 6 months, under 1 year; Bunn 1st and 2nd.  
Boar under 6 months; Bunn 1st and 2nd.  
Sow 2 years old or over; Bunn 1st and 2nd; Bonner 3rd.  
Sow 1 year, under 18 months; Bunn 1st; and 2nd; Ringer 3rd and 4th.  
Sow 6 months, under one year; Bonner 1st; Bunn 2nd; Bonner 3rd; Bunn 4th.  
Sow under 6 months; Bunn 1st and 2nd.  
Aged head; Bunn 1st and 2nd; Ringer 3rd.

**Young herd bred by exhibitor.** Bunn 1st.  
Young herd bred by exhibitor: Bunn 1st.  
DeBok 3 and 4; Sow 6 months, under 1 year; Sheard 1 and 2; Finnium 3 and 4; Mason 3; Sow under 6 months, Adams 1 and 2; Doerfler 2; Finnium 3; Prater 4.  
Aged head: DeBok 1st.

Young herd: Sheard 1st; Prater 2; Fruit 3; Young herd bred by exhibitor, Sheard 1; Prater 2; Fruit 3; Get of sire, Sheard 1; Prater 2. Produce of sow, Sheard 1; Prater 2. Senior of champion boar: Prater 1. Junior champion boar: Adams 1. Senior champion sow: Doerfler 1. Junior champion sow: Adams 1. Boar: Prater 1st. Sow: Doerfler 1st. Barrow under 300 lbs: Doerfler 1st; DeBok 2nd.

**Barrow over 300 lbs: Roth 2nd and 3rd.**  
Get of sire: Bunn 1st and 2nd. Produce of sow: Bunn 1st and 2nd. Senior champion boar: Bunn 1st. Junior champion boar: Bunn 1st. Senior champion sow: Bunn 1st. Junior champion sow: Bonner 1st. Boar: Bunn 1st. Sow: Bunn 1st. Barrow under 300 lbs: Bunn 1st and 2nd.

**Pea of three barrows under 300 lbs: Bunn 1st; Bonner 2nd.**  
Barrow over 300 lbs: Bunn 1st and 2nd. Pea of three barrows over 300 lbs: Bunn 1st.

**Duroc Jersey.**  
Boar 2 years old or over: Doerfler 1; DeBok 2. Boar 18 months, under 2 years: Ringer 1 and 2; Boar 1 year, under 18 months, Prater 1; Ringer 2; Roth 3; Boar 6 months, under 1 year, Sheard 1; Finnium 2; Mason 3; Adams 4; Boar under 6 months, Adams 1; Prater 2 and 3; Adams 4; Fruit 5.  
Sow 2 years old or over: Doerfler 1; Naftzger 2; Rother 3; Eow 18 months, under 2 years, DeBok 1; Sow 1 year, under 18 months, Naftzger 1; Doerfler 2.

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**CATTLE**  
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**Shorthorns.**  
Bull, 3 years old or over; Rader, 1st; Cornell, 2nd; Cole 3rd.  
Bull, 2 years, under 3; Cordinger 1st; Bull junior yearling: Beeching 1st; and 3rd; Cornell 2nd.  
Bull junior calf: Cordiner 1st; Cornell 2nd and 3rd.  
Bull junior calf: Cole 1st and 2nd; Beeching 3rd and 5th; Cornell 4th.  
Cow 3 years or over: Cordiner 1st 3rd and 4th; Beeching 2nd and 5th.  
Cow 2 years, under three: Beeching 1st and 3rd; Cordiner 2nd.  
Heifer senior yearling: Beeching 1st and 4th; Cole 2nd; Cordiner 3rd.  
Heifer junior yearling: Beeching 1st

and 2nd; Cordiner 3rd; Rader 4th.  
Heifer senior calf: Beeching 1st; Cornell 2nd and 4th; Cole 3rd.  
Heifer junior calf: Beeching 1st; Cornell 2nd; Cordiner 3rd and 4th.  
Herefords.  
Wm. P. Emery received first premium on the following: Bull, senior calf; Bull, junior calf; Heifer, senior calf; bull, under 2 years; heifer, under 2 years; Breeder's calf herd; Get of sire; Bull, senior calf: McKinney 2nd; Heifer, junior yearling: McKinney 3rd.  
Heifer, senior calf: McKinney 2nd; Emory 2nd.

**Milking Shorthorns.**  
Cow, 4 years or over: Beeching 1st and 2nd.

**Red Polled.**  
Jean DuLuth Farms received first premium on the following:  
Bull, 3 years or over; bull 1 year, under 2; bull, senior calf; bull, junior calf; cow, 4 years and over; heifer, 2 years and under; heifer senior yearling; heifer junior yearling; heifer senior calf; heifer, junior calf; bull over 2 years; bull under 2 years; cow over 2 years; heifer under 2 years; bull any age; cow or heifer any age; graded herd; Breeder's young herd; Breeder's calf herd; Get of one sire; produce of one cow.  
Jona DuLuth Farms received second premium on the following:  
Bull, junior calf; cow 4 years and over; heifer 2 years and under; heifer, junior yearling; heifer senior calf; get of one sire, produce of one cow.

**Holsteins.**  
Bull, 2 years, under 3: Evans 1st and 2nd.  
Bull, senior calf: DeBok 1st; Evans 2nd and 3rd.  
Bull, junior calf: Evans 2nd.  
Heifer, senior yearling: Daniel, 1st; Evans 3rd.  
Heifer, junior yearling: Daniel, 1st; Evans 3rd.  
Heifer, senior calf: Hathorn 1st and 2nd; Evans 3rd and 4th.  
Heifer, senior calf: Hathorn 1st.  
Heifer, junior calf: Hathorn 1st.  
Bull, over 2 years: Evans 1st.  
Bull, under 2 years: DeBok 1st.  
Heifer, under 2 years: Daniel 1st.  
Bull, any age: Evans 1st.  
Cow or heifer any age: Daniel 1st.  
Breeder's young herd: Evans 1st.  
Breeder's calf herd: Evans 1st.  
Get of one sire: Evans 1st.

For a consideration of \$15,000, James G. H. Wolfe, an Illinois farmer, has purchased a 50-acre prune ranch from B. J. Miles of Salem.

### HINTS FOR THE MOTORIST

ALBERT L. CLOUGH

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#### When The Gears Clash

OF ALL THE SOUNDS ARISING from the operation of a car, the most excruciating is that of transmission gears being rasped together, in shifting. Furthermore the effect of clashing them is about as destructive upon the gears as the noise is upon the nerves. It is a fact that very many motorists do not know just what takes place in the gear box, when such grinding occurs. If they did, they might take more pains to avoid clashing. If one conceives of two circular saws, one running quite fast and the other very slowly, suddenly forced together, so that their teeth meet, one obtains a somewhat but not unreasonably exaggerated idea of what happens when gears are inconsiderately forced into mesh. Anyone would assume that the teeth of the supposed saws would be broken off, but the actual gears are of course wider and their teeth more stocky. However the ultimate result of gear clashing is very similar. The destructive effect is gradual, the edges of the teeth are chipped off, little by little, with the result that the width of gear face is reduced and the teeth lose their correct form. Finally, noisy operation sets in and there is a tendency for the gears to slip out of engagement. At last, the tooth surface in contact becomes so small and pressure becomes so concentrated that, under some especially severe stress, the gears strip.

#### ENGINE "FALTERS" AT HIGH SPEED

H. M. Y. writes: My Ford pulls the hills well enough and I have little fault to find with it when running slowly, but when I try to get it above a certain speed, it misses, sputters and will not go any faster. Where is the trouble most likely to be found?  
Answer: The following are a few of the possible causes: The timer may be so worn that, while the roller makes reliable connection with the contact segments at low speed, its track is so uneven that, at high speed, it tends to jump and no longer readily detect any lump place, where one or more contact plates have actually broken or are far on the way to falling. If you carry this examination all around the inside circumference of the casing and find the fabric walls firm and springs, at all points, it is probable there is no weak spot yet developed.

#### CLEANING MUFFLER

O. W. B. asks: What is the best way of cleaning out the muffler? I am giving my car a general overhauling and am told that this should not be neglected.  
Answer: The only effective way of cleaning the muffler is to take it entirely apart and scrape the surfaces, but sometimes it is quite difficult to do this because all the joints become burned and rusted tight. Some scale and soot can usually be dislodged by tapping the muffler all over vigorously with a hammer, while the engine is run with considerable throttle and very late spark, so as to blow out the material that becomes loosened. It used to be a common practice to remove a muffler and place it upon a fire, built out of doors, until it became red hot and then to hammer it all over and empty out the scale, but this method is not to be recommended. We doubt if your muffler requires attention unless it is pretty old and has been used with an engine giving a very oily or sooty exhaust.

#### TESTING SHOE FOR WEAK SPOTS

W. W. G. asks: How can I tell whether an old casing has yet developed any special points of weakness. I don't want to put any casing in service, if it is likely to blow right out.  
Answer: By feeling it over with the hands, you can detect any bad fabric break that will soon lead to a blowout. By turning the casing wrong side out and bending the wall at all points with the hands, one can

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