

# QUESTIONS AND ANSWERS. Miscellaneous.

## H.P. OF GASOLINE ENGINE.

1. What is the strength of a horse-power in a gasoline engine?

2. How would you test the power of a gasoline engine? J. F.

Ans.—1. A horse-power is the amount of energy required to do 550 foot-pounds of work per second, or 33,000 foot-pounds per minute. That is, it is energy enough to raise 550 pounds one foot per second, or 1 pound 550 feet per second.

2. To arrive at the horse-power of a gasoline engine, the following rule is used: Make D equal the diameter of the face of the pulley; B, the length of lever, in feet, from center of shaft to point of scale suspension; A, the radius of pulley; R, the number of revolutions of the shaft per minute. The weight used in formula must be net weight of power stress, or the gross observed weight, less the weight of the lever.

## THRESHER AND BRIDGE.

The council of a certain municipality, in the Province of Ontario, was repeatedly warned of the unsafe condition of a bridge, but failed to do anything to have said bridge made safe for public travel. A thresher comes along with an ordinary outfit, an engine and separator, both drawn by horses, and in order to get to some of the ratepayers' places of the said municipality to do their threshing, he has to cross said bridge, as there is no other way that he can get to their places.

1. Is the council of said municipality in any way responsible for damage to threshing outfit while crossing said bridge, there being no notice at the bridge, or any other place, to say that said bridge was not safe?

2. Does the law in Ontario require that threshing outfits, such as the above-mentioned, shall carry with them planks to lay down to protect bridge while passing over them? Ontario.

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Ans.—1. Probably they are, if the "threshing outfit" was less than 10 tons in weight.

2. Before crossing a bridge connected with a highway on which no tolls are levied, the person running the engine must lay down on such bridge, planks of sufficient width and thickness to protect the flooring or bridge-surface. For further and more definite information on the subject generally, we would refer you to The Traction Engines Act (Ontario Statutes, 1912, Chap. 53.)

## CROPPING—RINGING BULL—AGE OF COW.

1. What crop would you advise in the spring to put on sod turned down on seaweed this fall? Would corn be all right?

2. Would it be advisable to put spring wheat on potato ground?

3. Is there any difference between spring wheat and fall wheat, other than the name itself?

4. What is the best way to put a ring in a bull's nose, and safest way to hold his head?

5. Can the age of a cow be told by the number of rings on its horns? E. C.

Ans.—1. If the soil and climate are suited to corn, it does very well on sod.

2. If the land is in a good state of cultivation and a high state of fertility, spring wheat does fairly well after potatoes.

3. Yes. While they may both belong to the same genus, fall wheat would not ripen if sown in the spring, and spring wheat is not hardy enough to live through the winter if sown in the autumn.

4. Tie him fast to both sides of a narrow stall by means of strong ropes and chains attached to his head and neck, and use one of the patented instruments to make the hole. Searing with a hot iron is sometimes resorted to. It prevents bleeding, but is very painful to the bull.

5. Yes. A cow gets a ring at the age of three years, and one each year thereafter.

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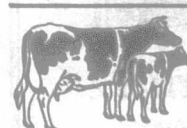
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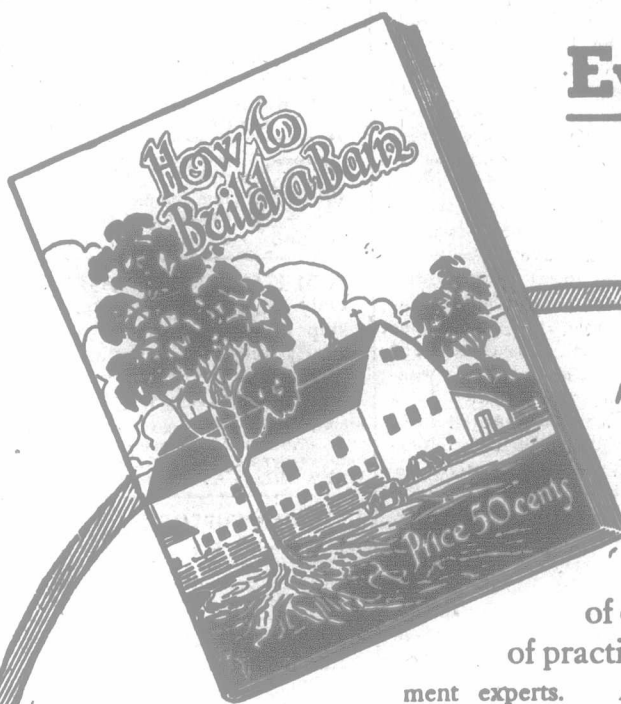
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