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Pure Shropshires for sale—Twenty-five ram lambs; price from \$10 to \$12 each, including pedigree. Also a few ewes and ewe lambs, all descended from imported stock. Am offering pure St. Lambert Jerseys, all ages, at moderate prices. For particulars write: H. E. Williams, Sunnyside Farm, Knowlton, P. O.

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capacity than the engine is rated at. This provides the extra steam required when operating at increased pressure and higher speed.

W. H. D.

**Questions and Answers.**  
Miscellaneous.

**Gasoline Engine.**

I was thinking of buying a gasoline engine and cutting-box, with blower, for cutting corn and doing custom work. Would a twelve-horse-power engine run a twelve-inch cutting-box and give satisfaction? If not, would a fifteen-horse power? The engine is of the opposed cylinder type. Any information you can give in your paper on this question will be gladly received.

W. M.

Ans.—A twelve-horse power engine will operate a twelve-inch cutting-box, with blower, satisfactorily. It would even run a thirteen-inch. It will also handle a ten-inch or eleven-inch grinder satisfactorily.

W. H. D.

**"Washy Driver"**

I have a driving mare seven years old. When I drive her four or five miles she starts to physic until she gets weak, more especially when she gets warm. She will work around home all right. Our veterinarian thought it was worms, and treated her accordingly, but found that it did her no good. Leave her off the road she will feed up pretty well, but as soon as you drive her she gets gaunt. She started about a year ago. I put her entirely on dry feed, but with no better results. I never water her when hitching her up. Is there any cure for her, and what is it? I would like to have her cured, as she is afraid of nothing.

J. R.

Ans.—This is known as a "washy driver," an animal predisposed to semi-diarrhea. If very pronounced in this defect, she will always require much care and attention to keep her normal. It is possible her teeth require dressing, and you should have your veterinarian examine them. Purge her with 8 drams aloes and 2 drams ginger. After her bowels become normal again, feed her 1 dram each of gentian, ginger, and sulphate of iron, night and morning. Feed hay of good quality, and grain that would be easily digested, such as ground oats. Feed no bran or roots, and do not water before going on the road or soon after feeding.

**Concrete Cistern.**

I intend building a concrete cistern, to be filled from roof of house, and to be used for drinking purposes also, if possible. Would build it in ground outside, to be under summer kitchen (to be erected), tank to be 16 x 6 x 6 feet, and six inches thick, concrete mixed five to one, and filterer in same, water to be drawn to regular kitchen by means of small force pump.

1. How many gallons will same hold?
2. Do you consider six inches thick enough?
3. Is a mixture five to one strong enough?
4. Have you any knowledge of a brick filterer?
5. What means of filtering would you take?
6. How would you put in same?

Ans.—1. 3,600 gallons.  
2. Yes.  
3. Whether five to one is strong enough depends on your material. If it is sand, pure and simple, the proportion you mention would probably not be satisfactory. An ideal mixture is considered to be one of cement, two of sand, and four of gravel. It is considered ideal because the one of cement will a little more than fill the pores in the two of sand, and then this ideal mortar in turn will a little more than fill all the pores in the gravel.

4, 5 and 6. There are mechanical filters made of porous earthenware similar to brick, and so arranged that they can be fastened to a water-tap, and the water thus be filtered as it comes from the tap. It requires considerable pressure for this. A filter, however, would probably be of little use in your case, as there would be practically no solids in the water from the roof secured as indicated. It is doubtful if you would get much satisfaction in using roof water for drinking purposes, as it will have the unpleasant taste peculiar to such water.

W. H. D.

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References: Greenwich Bank. East River National Bank, New York

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