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**Questions and Answers.** Miscellaneous.

#### Queries About Septic Tank.

In your issue of March 25 you illustrate a system of farm sewage, and as I am intending to put in a water system, etc., I wish to ask some questions regarding this which I am not clear on.

1. Will it be all right to let all water from kitchen sink, bath-room, wash bowl, and bath tub as well as flush from stool go into the first compartment of the septic tank?

2. Should the soil pipe enter the tank near the top, and be above the contents of first compartment, and therefore free from same, or should it be lower down, as per your illustration of the tank at Weldwood, showing end of soil pipe to be below the top of contents, and the end of the pipe therefore always in the contents? If it makes any difference please explain.

3. How far away from the house may the tank be placed, and what fall should there be in the pipe from house to tank to be sure of flushing out into the tank?

4. Will it be all right to enter the waste pipe from the kitchen sink into the soil pipe and then into the tank, or would it be better to have waste pipe separate from kitchen sink to first part of tank?

5. Explain regarding the waste water from bath tub and wash bowl in bathroom. Should it be by a separate pipe to tank or enter into soil pipe?

6. Why is it necessary to have an air pipe enter the parts of the septic tank? 7. I was always under the impression that such tanks never required cleaning out, believing the solids were changed into liquids, and thus disposed of through

the drains. Is this a wrong conception? 8. Is there any particular reason for placing the pipe from the first part of the tank to the second part, just halfway up from bottom of tank to top?

2. Under most circumstances it is better to have the soil pipe enter the first compartment above the contents of that part of the tank. Only where there is a sharp dip to the last few tiles could one satisfactorily have the end of the pipe below the material in the first tank as represented in the illustration of the septic tank at Weldwood. The orthodox style of septic tank illustrated on page 480, of March 25, figure 1, always admits the soil pipe at the top of tank, which

3. In one sense the distance of the tank from the house is immaterial. We have seen tanks like the one illustrated in figure 1, page 480, installed close to the house with no ill results. The tank at Weldwood was placed a greater distance in order to make it more convenient. In the case of a septic tank where the effluent goes into a system of tile laid on the level, the tank must be so situated that the bottom of the second compartment would be on the level with the system of tile. This is sometimes overcome by having gates in the pipes leading from the tank, but they simply make more equipment to get out of order, and it is a very simple matter to have a soil pipe going a little greater distance. The fall will depend upon the size of tile used, but one foot in 100 should be quite sufficient.

4. It is customary to have all the waste from the house enter the tank through the one soil pipe. It will tend to keep it clean. With proper traps in the plumbing there will be no danger of

foul odors. 5. It should enter the soil pipe.

6. It is not absolutely necessary to have an inlet of air into the septic tank. However, circulation would be better through the ventilating flues if fresh air could be carried constantly air would not become quite so much

7. Septic tanks that have been in use for a couple of years have been found to contain very little sludge. It will depend to some extent on circumstances, but it is generally considered that the septic tank which is working properly will need very little cleaning. The one at Weldwood contained some material, but not very much.

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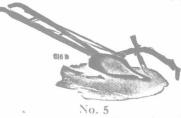


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