

### Leaf roll.

Another disease of the same kind as the former. As the name indicates the leaves roll up lengthwise and prevent the plant from completely working out the reserves that permit the formation of potatoes.



LEFT : tubers from a plant dwarfed by the leaf roll. RIGHT : potatoes from a sound plant. In both cases, tubers are looking fine, but on the left one has only one-third of the yield. (After Murphy).

The potatoes harvested are healthy, but they only amount to one-third of the normal yield. It has been calculated that the leaf roll is responsible for the large decreases in yield that have for a long time been attributed to the weariness or degeneracy of varieties. Selecting the seed is the only means of prevention.

## IV—TREATMENT OF POTATOES

### Formalin Bath.

*Preparation.* The material required for the preparation of a formalin bath consists of a barrel, formalin and water. One puts 30 gallons of water into the barrel to which one pound or one pint of formalin is added. When the barrel used does not contain 50 gallons, it would be better to use only one-half of the formula, or 15 gallons of water and half a pound of formalin ; otherwise the quantity of potatoes to be soaked would cause the solution to overflow ; what is important is that the barrel contains enough liquid to cover the bag of potatoes completely. If one wants to treat a large quantity of tubers rapidly, it is preferable to prepare three, four or five barrels in advance, as the case may be, so that sowing will not be delayed.

*Execution.* Put potatoes in very neat bags so as not to muddle the solution and allow the liquid to reach the tubers rapidly. With the help of a pulley and a rope, plunge the filled bag into the barrel ; allow the tubers to soak for about