

"WATER GLASS."

Results of a Dominion Experimental Farm Experiment for Preserving Eggs as a Medium for Keeping Eggs.

Prof. Frank T. Shutt, chemist Dominion Experimental Farm, and Mr. A. G. Gilbert, poultry manager of the farm, having received numerous inquiries from farmers during the past two months respecting the merits of "water glass" as a medium in which to keep eggs, are led to think that certain conclusions drawn from an experiment, lately brought to a close, with this and other preservatives, will be of interest to readers. They therefore send the following information:

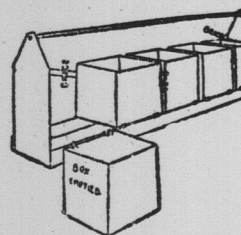
The investigation was commenced last September, perfectly fresh eggs from the farm poultry house being used for the test, which consisted in immersing the eggs for varying lengths of time, from a few hours to six months, in (a) lime-water, and (b) ten per cent. solution of "water glass." Those eggs which were treated for a few hours, days or weeks, as the case might be, were subsequently placed, together with the untreated eggs, in a wooden box, in a rack within a drawer in the laboratory till the close of the experiment, March 30, 1899. All the eggs were at a temperature from 65 to 75 degrees F. throughout the trial.

The testing consisted in breaking the eggs into a glass and noting the appearance of the "white" and yolk, whether the yolk was stuck to the shell, size of air-space, odor, etc. The eggs were poached and again noted for appearance, etc., noted. Without giving in detail the results of the various trials, it may suffice for present purposes to summarize the conclusions reached, as follows:

1. In no instance, either of treated or untreated eggs, were any "bad" eggs found.
2. In all cases where the eggs were not kept covered throughout the period of the test with the preservative solution, shrinkage of the contents and taken place, as shown by the larger air-space, the less globular form of the yolk, and in many instances by the adherence of the yolk to the shell. The eggs treated for seven days and less with lime-water showed somewhat less shrinkage than those treated a similar length of time with dilute soda.
3. It would appear that lime-water and "water glass" used continuously and equally efficacious in preventing shrinkage. They may also be said to give practically the same results as regards both external and internal appearance, due to the eggs preserved. Since "water glass" (silicate of soda) is more costly and more disagreeable to use than lime-water, we could not but recommend the latter as the better preservative.
4. The albumen or "white" in all the preserved eggs was very faintly yellow (though not to the same degree in all the eggs), the tint becoming deeper on boiling.
5. No offensive odor was to be perceived from any of the eggs when broken, but in all instances a faint but peculiar musty or stale odor and flavor developed on poaching.
6. It is probable that no preservative will prevent the loss of flavor possessed by the fresh egg, but those which wholly exclude the air, and thus at the same time prevent shrinkage from evaporation, will be the most successful. Continuous submersion is evidently better than treatment for a few days.
7. "Water glass," known chemically as silicate of soda, is a fluid quoted at 60c per gallon. It is highly caustic, due to excess of soda, and consequently is more disagreeable to use than lime-water.
8. The lime-water may be made by putting two or three pounds of good, clean lime in five gallons of water, stirring well at intervals for a few hours and then allowed to settle. The water from the bottom can then be poured over the eggs, which have been previously placed in a crock or water-tight barrel. Some authorities recommend the addition of a pound or so of salt to the lime-water, but the writers are of the opinion that this is unnecessary, and probably leads to the imparting of a liney flavor to the eggs by inducing an interchange of the fluids within and without the egg.
9. The all-essential points to be remembered are: (1) that the eggs to be preserved shall be perfectly fresh, and (2) that they shall be covered with the preservative fluid.

Measuring the Feed.

A very handy short cut for accurate feeding of ground feed or shelled grain is illustrated by the accompanying cut.



FOR MEASURING FEED.

Make up many one gallon boxes as you wish. Use 1/2-inch soft wood. Cut bottom 6 1/2 x 10 1/2 inches; ends, 6 1/2 x 10 1/2 inches; sides, 6 1/2 x 10 1/2 inches. Make sides of frame two inches wide; ends, 4 1/2 inches, and brace with lat. Fasten boxes to frame with hinges made of fence staples with wire passed through.

Albert Murphy, in Practical Farmer.

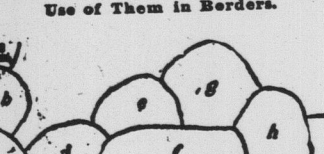
Subsoiling.

The Wisconsin Experiment Station gives the following as being among the best methods of subsoiling:

"Subsoiling to be most effective should be done in such a way as to leave the soil loose, much as the stubble plow leaves it. To accomplish this much work, depending upon the character of the soil and more upon the condition of the soil when the work is done. If the soil is to be so wet as to be plastic when the plowing is done, then the effect of the subsoil plow will be to wedge the portions of the soil, which are heavily pressed, into an even more compact and close texture than before, and thus develop a condition the opposite of that sought. To simply form a long groove or channel in the subsoil by wedging the dirt aside gives little aid in the direction sought. Such work, then, if done at all, should be done when the subsoil itself is dry enough, and this is most likely to occur in the fall after the crop of the season has withdrawn the moisture from the soil. Subsoiling late, too, leaves no time for the soil to lose its open texture before the rains to be stored reaches it."

HARDY PERENNIALS.

F. A. Waugh, of the Vermont Agricultural Station, Tells How to Make Effective Use of Them in Borders.



SUGGESTIONS FOR BORDER PLANTING.

For planting with perennials: a, *Papaver nudicaule*, Iceland Poppy; b, *Penstemon*, *Penstemon*; c, *Antirrhinum*, snapdragon; d, *Monarda*, *Monarda*; e, *Asclepias*, *Asclepias*; f, *Delphinium*, *Delphinium*; g, *Coreopsis*, *Coreopsis*; h, *Chrysanthemum*, *Chrysanthemum*; i, *Phlox*, *Phlox*; j, *Peonies*, *Peonies*; k, *Geranium*, *Geranium*; l, *Salvia*, *Salvia*; m, *Verbena*, *Verbena*; n, *Ornithogalum*, *Ornithogalum*; o, *Scilla*, *Scilla*; p, *Campanula*, *Campanula*; q, *Primula*, *Primula*; r, *Viola*, *Viola*; s, *Stachys*, *Stachys*; t, *Thymus*, *Thymus*; u, *Origanum*, *Origanum*; v, *Yucca*, *Yucca*; w, *Agave*, *Agave*; x, *Sansevieria*, *Sansevieria*; y, *Dracaena*, *Dracaena*; z, *Chamaecyparis*, *Chamaecyparis*; aa, *Juniperus*, *Juniperus*; ab, *Cedrus*, *Cedrus*; ac, *Pinus*, *Pinus*; ad, *Larix*, *Larix*; ae, *Taxus*, *Taxus*; af, *Thuja*, *Thuja*; ag, *Abies*, *Abies*; ah, *Podocarpus*, *Podocarpus*; ai, *Sciadopitys*, *Sciadopitys*; aj, *Wollemia*, *Wollemia*; ak, *Encephalartos*, *Encephalartos*; al, *Strobilanthus*, *Strobilanthus*; am, *Pholidus*, *Pholidus*; an, *Pholidus*, *Pholidus*; ao, *Pholidus*, *Pholidus*; ap, *Pholidus*, *Pholidus*; aq, *Pholidus*, *Pholidus*; ar, *Pholidus*, *Pholidus*; as, *Pholidus*, *Pholidus*; at, *Pholidus*, *Pholidus*; au, *Pholidus*, *Pholidus*; av, *Pholidus*, *Pholidus*; aw, *Pholidus*, *Pholidus*; ax, *Pholidus*, *Pholidus*; ay, *Pholidus*, *Pholidus*; az, *Pholidus*, *Pholidus*; ba, *Pholidus*, *Pholidus*; bb, *Pholidus*, *Pholidus*; bc, *Pholidus*, *Pholidus*; bd, *Pholidus*, *Pholidus*; be, *Pholidus*, *Pholidus*; bf, *Pholidus*, *Pholidus*; bg, *Pholidus*, *Pholidus*; bh, *Pholidus*, *Pholidus*; bi, *Pholidus*, *Pholidus*; bj, *Pholidus*, *Pholidus*; bk, *Pholidus*, *Pholidus*; bl, *Pholidus*, *Pholidus*; bm, *Pholidus*, *Pholidus*; bn, *Pholidus*, *Pholidus*; bo, *Pholidus*, *Pholidus*; bp, *Pholidus*, *Pholidus*; bq, *Pholidus*, *Pholidus*; br, *Pholidus*, *Pholidus*; bs, *Pholidus*, *Pholidus*; bt, *Pholidus*, *Pholidus*; bu, *Pholidus*, *Pholidus*; bv, *Pholidus*, *Pholidus*; bw, *Pholidus*, *Pholidus*; bx, *Pholidus*, *Pholidus*; by, *Pholidus*, *Pholidus*; bz, *Pholidus*, *Pholidus*; ca, *Pholidus*, *Pholidus*; cb, *Pholidus*, *Pholidus*; cc, *Pholidus*, *Pholidus*; cd, *Pholidus*, *Pholidus*; ce, *Pholidus*, *Pholidus*; cf, *Pholidus*, *Pholidus*; cg, *Pholidus*, *Pholidus*; ch, *Pholidus*, *Pholidus*; ci, *Pholidus*, *Pholidus*; cj, *Pholidus*, *Pholidus*; ck, *Pholidus*, *Pholidus*; cl, *Pholidus*, *Pholidus*; cm, *Pholidus*, *Pholidus*; cn, *Pholidus*, *Pholidus*; co, *Pholidus*, *Pholidus*; cp, *Pholidus*, *Pholidus*; cq, *Pholidus*, *Pholidus*; cr, *Pholidus*, *Pholidus*; cs, *Pholidus*, *Pholidus*; ct, *Pholidus*, *Pholidus*; cu, *Pholidus*, *Pholidus*; cv, *Pholidus*, *Pholidus*; cw, *Pholidus*, *Pholidus*; cx, *Pholidus*, *Pholidus*; cy, *Pholidus*, *Pholidus*; cz, *Pholidus*, *Pholidus*; da, *Pholidus*, *Pholidus*; db, *Pholidus*, *Pholidus*; dc, *Pholidus*, *Pholidus*; 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