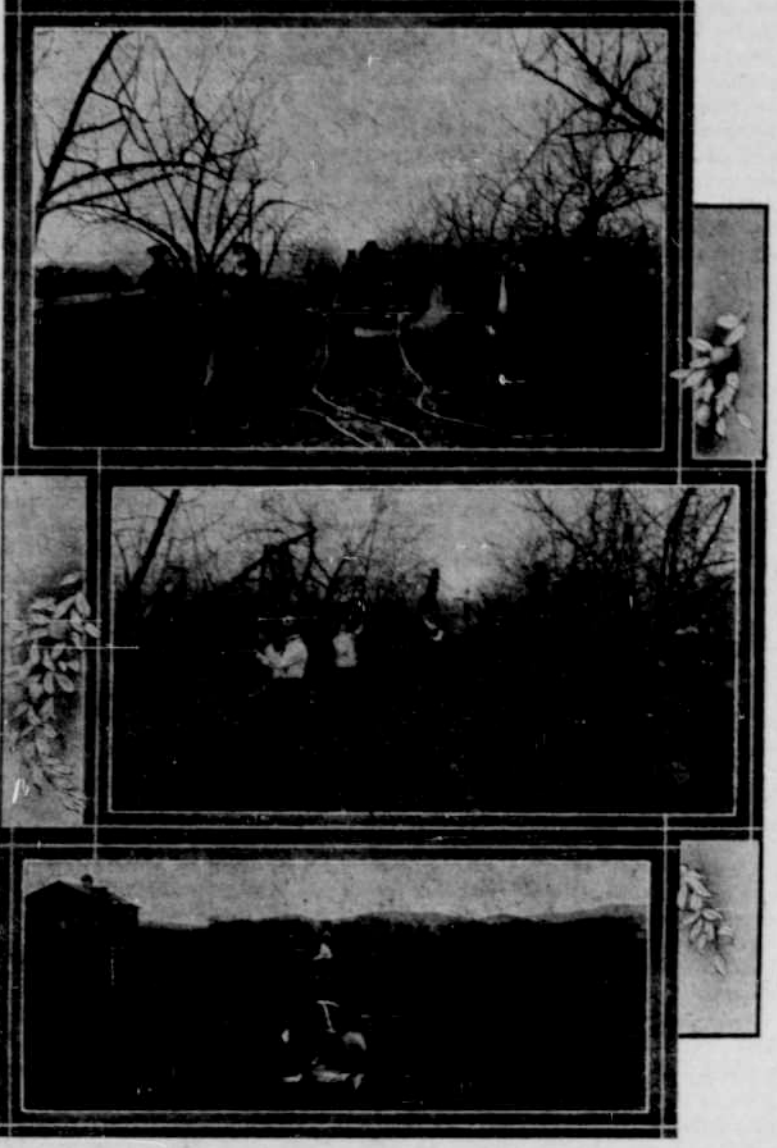


Spring Spraying Highly Important

(Continued from page one)
 which his trees are exposed. There are thousands of cases where the spraying is done at the wrong time with the wrong mixture and the man does not know what he is trying to control.
 "Many a man sprays against every pest he has ever heard of. He has been told that it is impossible to grow good fruit without careful spraying, and he gives his orchard seven or eight 'soakings' during the season, and in so doing probably throws away much of his money. He sprays for San Jose scale when there is not a scale in his orchard. He sprays the entire orchard

poisons in fighting codling moth. We should not be so conservative that we are not willing to try new mixtures, but they should be tried on a very small scale and we should run them through at least two seasons before drawing our conclusions.
 "At all times the spraying work is so slovenly and careless that it is practically ineffective. This simply means that the mixture, the time of the men, and the money expended have been wasted. Again, a great deal of spray is wasted by not using the right nozzles. There are a great many on the market and each has its special use.

Agricultural Students in Practical Endeavor in the Open



for aphids when perhaps only a dozen trees have been attacked. He sprays for anthracnose late in the spring when he should have done it in the fall. This man is not an unusual man. He is a typical example of a large number of fruit-growers.

"Many believe that because certain mixtures are good separately they are even better when combined. Investigation shows that most of this is foolish; that it is wasteful; that the mixtures are often absolutely worthless; and that certain elements which are splendid when separate are practically worthless when combined. I have known entire crops to be sacrificed because a man has decided that the addition of a certain amount of lye would be beneficial to his spray.

"A large percentage of growers on the Pacific coast this year made some costly experiments in substituting new

the grower should acquaint himself with their purposes before he decides that one is superior to all others on all occasions. We waste a great deal of spray, too, using many gallons more than is necessary.

"While the orchard is still young a barrel pump will often give excellent service and save the outlay of \$400 or \$500 necessary if a really good outfit is purchased. But when the orchard comes into fruiting it is absolutely necessary to have better sprayers. Small growers should combine and buy an outfit co-operatively. I am satisfied, too, that in a great many cases we are making a mistake in demanding so high pressure and having to use such powerful, heavy and expensive outfits. There are many diseases and insects that can be controlled nicely with less pressure and less expensive outfits if appropriate nozzles are used."

To be Better Surgeon Aids

(Continued from page one)
 there is no scar, not even a bump, perhaps. Yet, there may be caused a pressure that is perverting the child, that is making a bad boy, morose, disobedient, vicious, of the lad who should be cheerful, willing to do what is expected of him, anxious to "amount to something," as the homely phrase for measurable success has it.

This is where the surgeon and his knife become part of the equation. A simple operation, dangerless, removes the source of trouble. The boy becomes as nature intended him to be. Yet, a few years ago, science did not know this and the baby that bumped its little head had the finest opportunity to grow up as a criminal, or, at least, a detriment to society. The surgeon's knife is better as a corrective than the rod of punishment.

Then, there is the child that cannot learn, that is always behind normal youngsters of its age. Science now says that stupidity is to be cured by surgery, too. The child that is stupid, that is vacant eyed and seemingly purposeless, is, nine times out of ten, afflicted with adenoids. Enlarged tonsils or adenoid growths in the upper part of the throat are responsible for thousands upon thousands of cases of mental inefficiency. To take out the adenoids is not a very serious matter, yet the results are wonderful. Operations for the removal of such growths are being performed in great numbers every day now. The surgeon's knife helps the child to become intelligent, to learn, to be bright and normal.

Also, modern surgery has come to the aid of the crippled and maimed. The surgeon's kit now includes many of the tools of the cabinetmaker, the saw, the chisel, the brace-and-bit. In some instances, hammer and nails have been brought into use in the op-

erating room. Bones have been actually nailed to bones, in instances when there was no other method possible. Clubfoot and humpback, two distressing deformities, are now being remedied. The former is due to a lack of development of certain bones in the foot and the other to a tubercular condition of the spine. Both are now being treated with success. Bone transplanting has been reduced to a science, as has the grafting of bone. The making of a new nose is just an every-day matter for the modern surgeon.

Dr. Alexis Carrel, recently awarded unusual honor for his remarkable work, has done something in transplanting organs. He is somewhat of a pioneer in this, but the time may come when one can acquire a new stomach, or some such important part of one's physical machinery. Who can tell?

THE KAISER'S SON.

A diplomat at a dinner in Washington, says the Star, discussed the Crown Prince of Germany.

"He gives his poor father a lot of trouble," the diplomat said, with a frown. "The Reichstag incident, where he showed open disapproval of the kaiser's peace policy, is only one of many similar incidents that the public hears nothing about.

"A friend of mine, one winter night, was skating with the crown prince at St. Moritz, in the Swiss Engadine. The sky glowed and glittered splendidly with its host of stars, and my friend, pointing to a star of marvelous brilliance, said:

"I wonder what star that is?" "Doubtless," said the crown prince, with a sneering laugh, "it is some new decoration my father has seen fit to honor the Ruler of the heavens."

Knicker—A judge has ruled that a woman shouldn't spend more on clothes than on rent.
 Mrs. Knicker—Well, then, we shall have to pay a bigger rent.—New York Sun.

Automobile is Aid to Farmer

Agricultural Uses for Motor Cars Are Many and Varied, with Possibilities Undreamed of Until Recently

THE extensive use of automobiles as pleasure vehicles has gone far beyond the expectations of the optimists of 10 or 12 years ago who looked for the greatest developments in the building of delivery wagons and wagons for the hauling of farm produce. This extraordinary expansion in one direction has been of such absorbing interest that the steady gains of the automobile for utilitarian purposes has not attracted as much attention as it should. The predictions are being fulfilled, not only as they relate to the employment of the machines by business houses in the cities, but to their employment by farmers also. We have before us a copy of "The Pacific Rural Press," with a large illustration across the front page of "an automobile as a milk and cream carrier from farm to creamery." The machine has seats for two persons, and at the rear is a platform on which are set six cans of milk. The accompanying article, in discussing the merits of the automobile and the horse from the farmer's point of view, says that when it is considered that the utility automobile possesses such power equipment that it can travel the worst roads at any season of the year, can negotiate any

hills which could be climbed with a horse and wagon and requires but the simplest attention, it seems to be pretty well adapted to the uses of the farm, and this interesting comparison follows:

"The expense of upkeep in some cars has been reduced until today a man can operate a car, spending less for oil and gasoline than the cost of feeding a horse. The car is a matter of expense only when in actual operation, and while in operation its road capacity is at least four times that of a horse-driven vehicle. As for repairs, if the car is given reasonable care and attention, they should be little in excess of the cost of shoeing and repairs on harness, etc. In point of operating knowledge, even where this is not simple enough, the farmer has a great advantage, as he is of necessity more of a mechanic than the city man."

Unquestionably, the invention means a vast increase in the marketing facilities of the farmer, and he must derive advantages also from the use of the automobile in getting about. Going to town used to be a great event when a journey out and back of five miles had to be taken at a jog trot. But with automobiles and trolley cars it is a very small matter.

RECIPES FOR THE HOUSEWIFE

FRUIT SALAD.

PEEL and separate into lobes four oranges and cut each lobe in half. Blanch a cup of English walnut meats; take the seeds from three dozen Malaga grapes. Mix these ingredients together, set in the ice for an hour or until very cold, put into salad bowl lined with crisp lettuce leaves, cover with mayonnaise dressing and serve.

CLAM CHOWDER.

Chop a half-pound of pork very fine, put it into the bottom of a pot and fry crisp. Add a sliced onion and, when this is fried, put into the pot six potatoes, peeled and cut into dice, a can of tomatoes and a spice bag containing a half-dozen each of whole allspice and whole cloves. Add a quart of cold water and a dash of paprika and cook for three and a half hours. Now add 50 clams, cook for a half-hour more and serve with pilot biscuit.

EGG CHOCOLATE.

Into a half-cup of cold water and a half-cup of milk, mixed, beat two teaspoonfuls of chocolate. To do this turn all into a bowl and whip very light. Put into a saucepan, bring to a hard boil, beat again hard, sweeten to taste, and pour, beating steadily, upon one egg, whipped light. Serve at once. Flavor with vanilla if liked.

VINEGAR PIE.

Beat two eggs light, add to them two cupfuls of sugar mixed well with two heaping tablespoonfuls of flour. Whip with an egg beater until these ingredients are light, then add two cups of water, two tablespoonfuls of vinegar and a little grated nutmeg. Beat hard and pour into a pie-plate lined with good pastry. Set in the oven and bake. Cover when done with a light meringue, return to the oven long enough to brown lightly.

HARD GINGERBREAD.

One cup of molasses, one cup of sugar, one cup of buttermilk, one cup of dripping, one tablespoonful of soda,

two teaspoonfuls of baking powder, salt and nutmeg to taste. Mix as soft as can be handled, adding flour until of this consistency. Take a small quantity at a time, and press on the pastry board with the hands and crease with the back of a knife. Lay in a pan, patting flat as you do so, sprinkle lightly with sugar and bake. When done, these cakes should not be over an inch thick. Do not use until the day after they are made.

MADE-OVER NUT BREAD.

Cover stale bread, crusts and all, with plenty of cold water and let stand over night. In the morning drain off all the water you can by pressing with a large spoon, then work lightly with the fingers to make sure there are no hard lumps left. To each pint of this softened bread add one-quarter teaspoonful of salt and a bit of soda the size of a pea dissolved in a tablespoonful of water. Stir this mixture into one pint of bread sponge that is light from its first rising before it has been stiffened with flour. Mix thoroughly and add a cup of chopped nut meats. Knead well, adding enough flour to make the dough of the consistency of ordinary bread, letting it rise again until light, then forming into loaves and setting to rise the third time. Bake as usual. This looks like light graham bread, is fine in texture, keeps moist a long time and is much liked.

TOMATO JELLY.

Cover a half-box of gelatine with a cup of cold water and soak for an hour. Drain from a can of tomatoes all the juice, season this with a teaspoonful of onion juice, two teaspoonfuls of sugar, or more if the tomatoes are very acid, a bay leaf and pepper and salt to taste. Bring all to a boil and simmer for ten minutes, then add the soaked gelatine, and when this is dissolved take the mixture from the fire and strain through a flannel jelly bag. Pour into a mold wet with cold water. Set in a cold place to form and serve with lettuce and mayonnaise.

RAISIN PIE.

Put over the fire in a saucepan a cup of water, a cup of seeded raisins, a cup of sugar and a pinch of grated nutmeg. Thicken this mixture, after boiling for a few minutes, with a little cornstarch or flour, and bake with a top-crust, cutting slits in this to let out the steam.

CAKE FILLING.

Grate one large, peeled apple, add a cup of powdered sugar, the beaten whites of two eggs and beat for as long as you can make it very light. Twenty minutes is not too long. Spread on cake layers.

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