

SALEM TOMATO BLOSSOMS DROP, HOW TO PREVENT IT EXPLAINED

Prof. A. G. B. Bouquet Tells Local Gardeners Who Have Trouble How to be Sure of Early Tomatoes and Larger Yields From Vines

(The Statesman has received a letter from Prof. A. G. B. Bouquet, professor of vegetable gardening at the Oregon Agricultural college, who in writing this open communication, says he has a letter from a party in Salem stating that there is a general condition here among tomato plants in the home garden, that the plants have largely failed to set fruit and these parties are inquiring as to what the trouble might be and the remedy. In order to be of service to a large number of people at one time, rather than taking up the matter with a few individuals, Professor Bouquet sends the following for publication.)

"From reports of correspondents, there seems to be a general trouble in home gardens at Salem, with tomato plants dropping their blossoms so that but few tomatoes have set on plants up to the present time.

"The condition is as noted by a recent correspondent to me at Corvallis, that the tomato plants have grown well and are thrifty, but the stems of what would otherwise be the fruit, are breaking off about one-half inch back of the blossoms. People who are inquiring concerning the trouble do not seem to be able to diagnose it because no insects appear to be present to eat the blossoms.

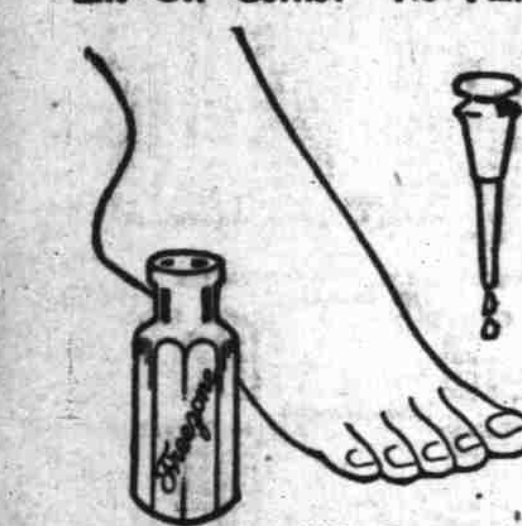
"In answer to these various inquiries which have recently come to us, would say that the whole trouble is a matter of lack of pollination or fertilization of the tomato blossoms. While this is a general trouble with most tomato plants each year, in some seasons it is accentuated and one finds a large percentage of the blossoms of the plants falling and thus considerable amount of the early fruit is lost. Later on when the weather becomes warmer and drier, the blossoms will naturally self pollinate themselves.

"There are two steps open to those who are having this trouble, one of which is to tap or jar the blossoms with a stick or lead pencil, particularly seeking those blossoms that are full open. This will have a tendency to cause the pollen in the flowers to separate and part of it will probably lodge on the end of the pistil which is the center portion of the flower, and which must necessarily receive some pollen before the flower is fertilized and a young tomato is developed. The jarring or tapping process is rapid and can be done easily, but one is not sure of pollinating every blossom by this means.

"Hand Method Thorough
"The alternative method is to hand pollinate the blossoms which while at first may seem laborious, yet it is most thorough and gives the greatest results for the time put in on the work. In another part of this

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leaving the pistil or the center of

the flower remaining. This is called the emasculation of the blossom.

Then a little of the pollen on the index finger of the left hand should be gently touched to the end of the pistil of the flower. This will cause it to be fertilized and make the young embryo tomato develop rapidly, so that it will ripen quickly. Such, in detail, are the simple methods of practical value in preventing these blossoms from dropping.

Summarizing the above remarks, the operator will note that the first important step is to get pollen from the wide open flowers; then in succession the flowers which should be pollinated, which are the ones, once open, that have now closed and are withering and fading. These flowers are pulled off one at a time quickly and fertilized by touching the end of the pistil with the pollen on the finger.

If this work is done systematically two or three times a week it should not take over 15 or 20 minutes to pollinate an average number of tomato plants that are in the home garden. In this manner the majority of the early blossoms at least are attended to and will be made to develop fruit of a number of them dropping off to the disappointment of the grower.

Best Time to Pollinate

The best time of the day to pollinate is when the air is dry and the temperature warm. There will always be a certain number of flowers that need attention every time you visit the tomato area so that when you do, instead of standing and admiring the fine growth that the plants have made some pollination should be done in order to get the blossoms fixed.

For the time invested, there is nothing that will help you grow ripe tomatoes more certainly than will the work of pollination. Many hundreds of tomato blossoms fall off every year because they do not naturally set and it is necessary to assist nature in causing these blossoms to produce fruit. There are very few if any insects which work on tomato blossoms to cause them to be properly pollinated. The common honey bee does not visit the tomato and the only larger insect working on the plant, sometimes, is the bumble bee. Later on in the season, when the weather gets warmer, it is usually unnecessary to pollinate the flowers inasmuch as they will ordinarily take care of themselves and there will be a larger percentage of setting fruit.

SILVERTON PERSONALS

SILVERTON, OR., July 29.—(Special to The Statesman)—G. E. Anderson has completed the construction of a new cement reservoir for the Silverton water commission. The tank is a great deal larger than the old one.

L. H. Meyer of the Richardson Implement store is working overtime setting up binders.

Miss Alma Samsen is again at her home after being with the N. O. Holman family for several weeks.

Alfred Jensen is the owner of a

new binder and is trying it out on the grain fields along Paradise road.

Mr. and Mrs. L. H. Meyer and son, Ludwig, and Mrs. J. Hansen spent Wednesday in the Silverton hills at the T. Severson home.

Alvin Williams and his little niece, Miss Althea Meyers, went to Hubbard Monday where they will remain for some time.

Loganberry picking is in full swing now. The crop will not be as large as in former years. The Misses Frances and Pauline Morley are the accountants in the large field owned by Dr. C. W. Keene.

Walter Taft is employed at the Sorenson vulcanizing shop.

Miss Emma Hattburg, J. Refsland and Edwin Hattburg, moved over the Columbia highway Sunday.

Mrs. H. A. Schulte, sister of Mrs. E. H. Knoll has returned to her home at Spokane, Wash. Mrs. Knoll and her two sons who accompanied her will make their home at Spokane.

W. H. Vealier is the owner of a new oil burner, threshing engine. This is considerably more expensive than the woodburner but it is a better investment as it does not require as much help to operate it.

Miss Martha Jensen has accepted a position as school teacher in Montana at \$140 per month for the coming term. Miss Jensen has been teaching school in Montana for a little over a year and seems very well satisfied with the climate.

Mrs. Selmer Ness and Miss Mable Evans have gone to Miss Johnson to keep house for Mr. Ness and Edie Evans.

Miss Edna Gray who has been employed at the Silverton cannery for some time has gone to work on a farm out on Howell Prairie.

Mrs. Inez Reynolds is home again after spending several weeks at her old home, Mountain Home, Idaho.

Mr. and Mrs. Louis Wolford have moved to the rooms over the Olson drug store.

Mr. and Mrs. Selwin Miller have gone to Willhoit, where Mr. Miller will be employed during the summer.

STOP TOBACCO

Stop tobacco for a month and see how much better you feel. You can stop without suffering any inconvenience or feeling the usual craving. Simply get a box of Nicotol from any druggist, use as directed and the habit quits you. Your health will be better, your resistance to disease will increase and you will cease to be a slave to nicotine. Read what Dr. Connor formerly of the Johns Hopkins Hospital, says about the evil effects of tobacco in an article soon to appear in this paper. Nicotol is dispensed by all good druggists in this city, especially by D. J. Fry.

Senate Committee Will Cease Investigations

ST. LOUIS, July 29.—United States Senator James A. Reed today announced the senate sub-committee would not resume its investigations of campaign expenditures of presidential candidates until September. Senator Reed is a member of the sub-committee.

PROF. SITES IS A LEADING SALEM TEACHER OF MUSIC

He Will Start Again This Fall a Symphony Orchestra and a People's Chorus, and He Is Conducting Classes in Voice, Piano, Violin, Cello and Harmony

Through a misunderstanding, one of the most accomplished teachers of music in the state, residing and operating in Salem, was omitted from the educational page of the Statesman yesterday. John R. Sites, Mus. Doc. The compiler proceeded upon the belief that Mr. Sites was connected with the Willamette University college of music, which was treated in the university review, but that is a mistake, the doctor having opened a studio of his own at his home, 1237 Court street, where he conducts classes in voice, piano, violin, cello and harmony.

Dr. Sites studied with some of the greatest masters in Europe and uses the Manuel Garcia method. His

teacher in voice was Professor Stockhausen in Frankfurt-on-the-Main and his piano teacher was Dr. Carl Reinicke of Leipzig. Mr. Sites received the honorary degree of doctor of music in 1892 from the University of Leipzig.

He has taught in Leipzig, Dresden, London, New York, Cincinnati, Chicago and the past four years in Salem. He sang for five years in Royal grand opera in Dresden, Saxony, and all over the world in concerts and opera. Ten thousand copies of his book, "A Method of Singing," have been sold. He will start again this fall a symphony orchestra and a people's chorus, in which he expects general interest as a stimulus to musical improvement.



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12 pounds Fancy Navy Beans.....	\$1.00
10 pound sack Rolled Oats.....	70c
10 pounds bulk Rolled Oats.....	67c
10 pounds R Grahams.....	73c
10 pounds Pancake Flour.....	75c
Crown Flour.....	\$3.60
Olympic Flour.....	\$3.50
Princess Flour.....	\$3.50
Snow Drift Flour.....	\$3.50
12 Libby Milk.....	\$1.67
1 gal. Monopole Cane Syrup.....	\$2.98
1 gallon Tea Garden Syrup.....	\$2.65
1 gallon Crystal White Karo.....	\$1.30
1 gallon Amber Karo.....	\$1.20
5 lb. Amber Karo.....	57c
5 pounds Crystal White Karo.....	60c
Medium Log Cabin.....	70c
Medium Uncle John's.....	70c
No. 5 Fresh Pure Lard.....	\$1.19
No. 10 Fresh Pure Lard.....	\$2.35
No. 5 Fresh Compound.....	\$1.15
No. 10 Fresh Compound.....	\$2.27
4 pounds Net Snow Drift.....	\$1.33
8 pounds Net Snow Drift.....	\$2.63
3 pounds Split Peas.....	33c
2 pounds Tapioca.....	25c
6 lbs. Fancy Onions.....	25c
Fresh Baked Soda Crackers, pound 19c	

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2 Post Toasties.....	27c
2 Shredded Wheat.....	32c
2 Puffed Wheat.....	30c
2 Puffed Rice.....	35c
2 Grape Nuts.....	35c
1 large package Armour's Oats.....	35c
1 large package Alber's Oats.....	35c
1 large package Kerr's Oats.....	35c
1 large package Quaker Oats.....	35c
1 Olympic Pancake.....	37c
50c size Instant Postum.....	41c
30c size Instant Postum.....	25c
25c Plain Postum.....	22c
Ghirardelli's Chocolate, pound.....	40c
1/2 pound Baking Chocolate.....	26c
12 oz. Royal Baking Powder.....	41c
16 oz. Calumet Baking Powder.....	25c
16 oz. Crescent Baking Powder.....	25c
25 oz. K. C. Baking Powder.....	22c
15 oz. K. C. Baking Powder.....	13c

8 pound Box Fresh Baked Soda Crackers, pound.....	18c
Fresh Crisp Grahams, lb.....	22c
Fresh Ground Nut Butter, pound.....	17c
3 lb. Can Royal Club Coffee.....	\$1.49
Fancy Bulk Coffee, pound.....	38c
3 pounds Fancy Bulk Coffee, pound.....	35c
5 pounds Fancy Bulk Coffee, pound.....	31c
2 cans Fancy Corn.....	35c
2 cans Fancy Tomatoes.....	33c
2 cans Standard Tomatoes.....	27c
2 cans Fancy Peas.....	45c
2 cans Standard Peas.....	32c
1 pound Flat Red Salmon.....	37c
1 pound tall Pink Salmon.....	20c
1/2 pound flat Red Salmon.....	20c
1 pound tall Sterling medium red.....	28c
5 cans Deviled Meat.....	25c
Fancy Minced Clams, can.....	21c
Oysters, can.....	22c and 40c
2 packages Jell'O.....	32c
2 packages Jiffy Jell.....	32c
2 oz. Buckeye Vanilla.....	23c
2 1/2 oz. Star Lemon.....	23c
5 bars Toilet Soap.....	25c
Regular 8c Toilet Soap.....	5 for 25c
10 Bars Fell's Naptha Soap.....	90c
10 Bars Fairy Soap.....	80c
10 Bars Ivory Soap.....	85c
Large Citrus.....	31c
2 cans Old Dutch Cleanser.....	21c

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42-piece Gold Band sets.....	\$10.25
42-piece Bluebird sets.....	\$12.75
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