

Every Man who Sprays His Orchard or Garden—Every Man who Uses Arsenate of Lead—should read this

A Comparison of Two Different Kinds of Arsenate of Lead



Fig. 1.

GENERALLY speaking, there are two separate and distinct forms of Arsenate of Lead on the market, Neutral and Acid. Neutral Arsenate of Lead is composed of arsenic and lead prepared in such a manner that all the arsenic is thoroughly combined with lead. This material is very light in gravity, settles very slowly in water, is fluffy, and when sprayed on the foliage clings very tightly to it.

On account of its fluffiness it has great covering power and because all the arsenic is thoroughly combined with lead it does not change its composition on exposure to the weather, and so will not burn the most delicate foliage.

In the Acid Arsenate of Lead, only two-thirds of the arsenic is neutralized with the lead, the other third being free or loosely combined so as to form a precipitate which is insoluble in water at first, but which on exposure to weather begins to disintegrate and give free arsenic which will severely burn tender foliage. This material is much heavier in gravity, not so fluffy, settles much more rapidly in a spray mixture when used for spraying purposes and does not cover the area of foliage so thoroughly on account of its greater density. The reproductions illustrate the difference in the two forms of Arsenate of Lead. One is Sherwin-Williams New Process Arsenate of Lead, which is the highest type of an absolutely neutral, thoroughly combined material. The other is one of the typical brands of Acid Arsenate of Lead offered in competition usually at a much lower price. This shows very clearly the defects common to an acid form of Arsenate of Lead.

Figure 1 shows the two forms of Arsenate of Lead stirred up in water, the same quantity of paste being used in each case and diluted to the same total volume with water.

Figure 2 shows these same glasses after settling 7 minutes.

Figure 3, after settling 15 minutes.

Figure 4, after they have stood all night and settled all they could.

After thoroughly settling, the bulk occupied by a given quantity of New Process Arsenate of Lead is approximately 45 cubic centimeters, whereas the acid material is 20 cubic centimeters, showing two and one-quarter times greater bulk for New Process Arsenate of Lead.

From the economy standpoint, S-W New Process Arsenate of Lead will show very satisfactory results. It is not the cheapest brand on the market, but the uniform, high quality maintained more than balances the few cents additional in first cost.

It is an ideal Arsenate of Lead for fruit-tree or vegetable spraying, because its composition is such that it will not injure the most delicate foliage. Where only a small amount of spraying is done, such as in the garden or vegetable greenhouse, S-W Process Arsenate of Lead is really the only practical material that should be used, due to its adaptability for use on all kinds of foliage with entire safety. It is put up in suitable air-tight packages, which keep it in fresh, usable condition at all times.

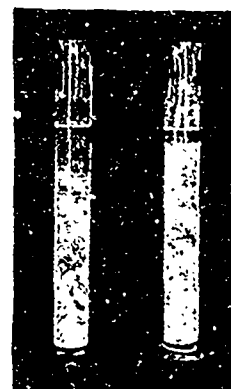


Fig. 2.

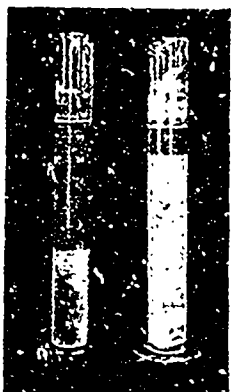


Fig. 3



Fig. 4.



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