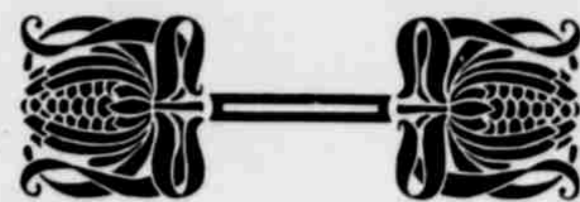


# ORTHO



# ARSENATE OF LEAD

## WARRANTY

We do hereby warrant this package of Ortho Arsenate of Lead to contain not over 45 per cent of moisture, the balance being Ortho-Arsenate of Lead, of which not less than 14 per cent is Arsenate Pentoxide (A S<sub>2</sub> O<sub>5</sub>.) We further warrant this lead not to burn under any conditions. This warranty extends to the refunding of the entire purchase price in case of failure of the material to come up to this guarantee.

BEAN SPRAY PUMP COMPANY.

The above warranty is found on every package of  
ORTHO ARSENATE OF LEAD

During the spring of 1903 the University of California commenced an investigation of the Codling Moth problem in the great apple growing districts known as the Pajaro Valley. Here the damage to the apple crop due to worms was yearly becoming greater and the common method of control (spraying with Paris Green)

### Cause of Burning

was, as in other sections, very unsatisfactory. This spraying with Paris Green, while it reduced the number of worms, caused far greater damage than any generally experienced because of the very foggy summer climate of the Valley. These wet fogs caused the arsenic in the poison to dissolve and so penetrate and burn the leaves. Such injury was often many times greater than that caused by the Codling Moth.

At this time Arsenate of Lead was just being introduced and several brands were experimented with. The results were much better than those obtained with Paris Green, but injury still followed the application in some cases. Further investigation developed the fact that Arsenate of Lead, as

### Difficulty Found

generally prepared and sold, was really a mixture of two chemical compounds, one of which (ORTHO-Arsenate) was safe under all climatic conditions, but the other (Pyro-Arsenate) would injure foliage when enough moisture was present.

The discovery of the compound of Arsenic and Lead which could be depended upon to kill the worms and yet positively would not injure the foliage was only half the battle. This Ortho-Arsenate of Lead was not manufactured in the pure state by any existing companies so could not be obtained. It was therefore necessary to establish a factory for the manufacture of Ortho-Arsenate of Lead that would come up to these requirements.

### Trouble Remedied

Thus it was that the California-Spray-Chemical Co. was organized in 1907. This company makes a specialty of Ortho-Arsenate of Lead and so successful has it been in meeting the requirements that no other brand is used in the Pajaro Valley which produces 4000 cars of apples annually. During the past two years it has proved itself to be the safest and most satisfactory poison in all the great spraying districts of the West.

## Here's Why You Should Use Ortho--Arsenate

1. It is *sure to kill*—if you have it in the right place at the right time—because it is strength and purity.
2. It will not produce poisoning of the soil.
3. It *cannot burn*. Arsenate itself will burn, but when properly combined with lead it cannot.
4. A United States Patent protects the manufacturers in their process of perfectly combining these substances.
5. It is put up in a *steel* container;—hence full net weight always—no leakage.
6. If you carry over part of a package the cover fits so snugly as to make the can water and air tight. Wood packages leak, and tin packages rust; we avoid both.
7. It is put up in convenient sizes for handling—5, 10, 20 and 50 pound cans.
8. Material has been analyzed and passed upon by the experiment stations of California, Oregon, Washington and Utah.
9. It costs no more than other kinds.
10. *Last, but not least*

It is a *netural arsenate* and will not precipitate the sulphur in your first spraying with lime and sulphur

# GILBERT - VAUGHAN IMPLEMENT COMPANY

That's All! :: That's Enough