box about 10 or 12 feet in length, with a wire screen fixed in the middle. Balance this box on a log and place in one end of it as much grain as can be covered with liquid, and while that is soaking put grain in the other end and then tip so that liquid will drain through the screen. This method permits the removal of smut balls by skinning them from the surface of the liquid.

EFFECTS OF TREATMENT.

The longer grain is kept after treatment the more it deteriorates in vitality especially if stored without being dried. In sowing grain just treated the drill should be opened a little more to insure the usual amount being sown. Germination is slightly retarded by treatment, but the growth is strong after the roots are established. There is an increase in the yield as well as a higher grade of grain from treated seed as indicated by the following extruct from the report of the Indian Head Experimental Farm for 1895.

TEST OF BLUESTONE AT A PREVENTATIVE OF SMUT.

"In this test 1-10th acre plots of summer fallow were sewn by drill on April 17th."

"The result of the test of sowing very smutty seed proves the efficiency of bluestoning as a preventative of smut. While the untreated was more than one-half smut, the product of the same seed treated contained 40 times more good than smutty heads; the yield per acre was also greater from the treated, being 36:3 bushels of No. 1 hard wheat, while that from the untreated was 17:4 bushels of grain and smut unfit for feed or market."

Name of Variety	Date of itipening	111137	Strate	of Straw	Length of head	Weight of Straw per acre Lbs.	Yield per acre	bushel	Good and Snut- ty heads on 6 ft. square of plet.	
									Good	Smutty
Good seed from treated erop, 1894 —			1							1
Red Fife, sprinkled, 1										
lb. to 8 bus	Aug. 28	133	47	Stiff	37	6,310	10	. 603	1,709	5
Red Fife, dipped, 1 ib.										
to 8 bus.		132	19	64	31	6,500	42	. Gfg.	1,525	0
Red Fife, untreated		133	18	••	31	6,00t	40 10	$-61\frac{7}{4}$	1,589	31
Smntty seed from un- treated crop, 1864							İ			
Red Fife, 11b, to 8 bus.	Aug. 31	136	1 40	**	14	500	36 30	filt	1,626	- 11
Red Fife, natreated	Aug. 31	130	48	Fair	4	580	17 10	48	718	833

SOME HINTS FROM THE INDIAN HEAD EXPERIMENTAL FARM.

Only clean plump wheat is used for seed in the field crops.

It is tested for germination. It is treated for bluestone.

Such crops have shown no smut in 16 years.

Small test plots sown with very smutty untreated wheat have grown grown over 50% smutty heads.

Treating such very smutty seed never resulted in an entirely clean crop.