

proved highly toxic. Ricin and ricinine have been shown to have no effect on grasshoppers (71).

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Report of the Cellulose Yield Committee 1946-47

DURING the past year the committee sent out samples to 11 laboratories for check yields analyses. The average results for the laboratories are given below:

Lab. No.	No. Sets Samples Tested	Samples			Overall Average for Year
		A Linters	B Linters	C Fiber	
1.....	4	73.0	72.1	69.1	73.1
2.....	4	73.4	72.3	69.9	73.5
3.....	4	77.6	71.5	68.8	72.6
4.....	4	73.4	71.9	70.2	73.5
5.....	4	77.9	72.0	69.2	73.0
6.....	4	73.2	72.1	69.1	73.1
7.....	4	78.4	72.1	69.4	73.3
9.....	4	78.1	72.1	69.2	73.1
11.....	4	78.5	72.1	69.3	73.3
12.....	4	78.8	72.7	69.8	73.8
Avg.....		78.2	72.1	69.4	73.2

The agreements of all the laboratories for the past year were very good as seen from the above results.

Last year the committee recommended the use of a wetting agent to be used in the cooking solution. This was not approved by the Uniform Methods Committee since we had put it in as an optional method. This year we are including this suggestion again but we are

making it mandatory instead of optional. Last year's report included the work which showed that the oil could be used without affecting the yield.

In our present method we have two ways of mixing lint samples, one by hand and another with a lint mixer. Practically all of the laboratories at the present time are equipped with the lint mixing machine so it has been decided to make the lint mixing equipment mandatory and cut out the hand mixing method as more uniform results are obtained with the lint mixing machine.

Recommendations: It is recommended that:

1. The method be changed to include the use of red oil in wetting out the lint before digesting in the amounts of 1/2 c.c. of red oil to each 525 c.c. of 1% caustic solution.

2. The mixing of linters by hand be taken out of the method and make the mixing of linters by the lint mixer mandatory.

3. Samples be sent out during the next season at least 4 times.

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