

## Rule Change Proposal No. 15

**PURPOSE:** The purpose of this rule is to delete the 20C temperatures suggested for germination of Arrowleaf Clover, *Trifolium vesiculosum*.

**PRESENT RULE:** Table 3

Kind of Seed	Substrata	Temp	First count	final count	Additional directions
<i>Trifolium vesiculosum</i> arrowleaf clover	B, T	20; 15	4	10	See sec. 4.2 and 4.9 See sec. 4.9c. Hard seeds: see sec. 4.2 d and 4.9 k(6).

**PROPOSED RULE:**

Kind of Seed	Substrata	Temp	First count	final count	Additional directions
<i>Trifolium vesiculosum</i> arrowleaf clover	B, T	15	4	10	See sec. 4.2 and 4.9 See sec. 4.9c. Hard seeds: see sec. 4.2 d and 4.9 k(6).

**SUPPORTING EVIDENCE:** See chart attached. 13 lots of Arrowleaf Clover were chosen at random, including new crop and old crop, 400 seeds planted for each trial and placed in 15C and 20C. First counts were recorded and samples were finalized at 10 days. Each lot has higher percent normal seedlings in the 15 C. Percent Normal Seedlings plus percent hard seed is higher at 15C for all thirteen lots. The remaining seeds were recorded as dead 10.60% average in the 20C and 2.19% average in the 15C in the thirteen lots. A higher percent of abnormalities were recorded in the 20C in all thirteen lots also.

**Arrowleaf Clover Germination Temp Comparison**

LAB#	15 Degrees			20 Degrees		
	% Normal	% Hard	Total	% Normal	% Hard	Total
73758	78.25	11.00	<b>89.25</b>	61.50	17.25	<b>78.75</b>
59614	61.00	37.00	<b>98.00</b>	25.00	33.00	<b>58.00</b>
67804	68.25	28.75	<b>97.00</b>	60.25	25.25	<b>85.50</b>
72634	83.25	8.00	<b>91.25</b>	67.50	8.50	<b>76.00</b>
72692	81.75	8.25	<b>90.00</b>	73.75	8.50	<b>82.25</b>
78980	75.50	10.50	<b>86.00</b>	63.75	9.00	<b>72.75</b>
74128	56.25	36.25	<b>92.50</b>	42.75	41.75	<b>84.50</b>
72973	87.00	5.25	<b>92.25</b>	78.00	4.50	<b>82.50</b>
72142	79.25	13.25	<b>92.50</b>	76.50	9.00	<b>85.50</b>
71759	79.75	11.75	<b>91.50</b>	60.75	10.00	<b>70.75</b>
71661	80.75	8.75	<b>89.50</b>	71.75	8.75	<b>80.00</b>
70460	85.00	6.75	<b>91.75</b>	79.75	7.75	<b>87.50</b>
70459	82.75	11.00	<b>93.75</b>	76.25	7.25	<b>83.50</b>

**SUBMITTED BY**

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