

Directions

- ❖ Establish one randomly selected 1/100th acre plot *for each acre planted.*
- ❖ Count all live seedlings within a circular plot (*an 11.8 ft rope attached to an anchor pole driven into the ground establishes a 1/100th acre plot.*)
- ❖ Record the results below
- ❖ Supply the information requested and complete the calculations at the bottom of this worksheet.

<u>PLOT #</u>	<u>LIVE SEEDLINGS</u>	<u>PLOT #</u>	<u>LIVE SEEDLINGS</u>
1		24	
2		25	
3		26	
4		27	
5		28	
6		29	
7		30	
8		31	
9		32	
10		33	
11		34	
12		35	
13		36	
14		37	
15		38	
16		39	
17		40	
18		41	
19		42	
20		43	
21		44	
22		45	
23		46	

Planting Information

of Planted Acres in Stand =

Seedlings Planted/Acre =

Calculations:
(example on other side)

Plots (A) = # of Planted Acres in Stand =

Total # of Live Seedlings in Plots (B) =

Ave. # of Live Seedlings per Plot (C) = $B \div A =$

Ave. # of Live Seedlings per Acre (D) = $C \times 100 \text{ plots/ac.} =$

Survival Percentage = $D \div \# \text{ Seedlings Planted/Acre} \times 100 =$

Example

Example

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<u>PLOT #</u>	<u>LIVE SEEDLINGS</u>	<u>PLOT #</u>	<u>LIVE SEEDLINGS</u>
1	3	24	5
2	1	25	3
3	5	26	3
4	0	27	4
5	1	28	2
6	4	29	0
7	1	30	5
8	2	31	4
9	3	32	3
10	2	33	2
11	4	34	3
12	3	35	4
13	4	36	4
14	5	37	
15	2	38	
16	3	39	
17	1	40	
18	5	41	
19	3	42	
20	4	43	
21	4	44	
22	3	45	
23	2	46	

Planting Information

of Planted Acres in Stand = 35.6

Seedlings Planted/Acre = 499

Calculations:

Plots (A) = # of Planted Acres in Stand = 36

Total # of Live Seedlings in Plots (B) = 107

Ave. # of Live Seedlings per Plot (C) = $B \div A = 107 \div 36 = 2.97$

Ave. # of Live Seedlings per Acre (D) = $C \times 100 \text{ plots/ac.} = 2.97 \times 100 = 297$

Survival Percentage = $D \div \# \text{ Seedlings Planted/Acre} \times 100 = 297 \div 499 = 59.5\%$