CONSERVATION AGRONOMY TECHNICAL NOTES

U. S. DEPARTMENT OF AGRICULTURE NEW MEXICO SOIL CONSERVATION SERVICE

NOTE NO. 13

June 9, 1970

RE: POUNDS OF GRASS SEED MATERIAL REQUIRED TO YIELD ONE POUND OF PURE LIVE SEED.

The attached Montana Job Sheet provides a quick reference for converting Pure Live Seed into bulk seed where germination and purity are known.

Since the increments for purity and germination are shown in 5 percent steps, calculation will still be needed in checking performance if federal cost-sharing and significant quantities of seed are involved.

The information in this table may be useful in working with farmers or ranchers who plan to purchase grass seed or as a check to assure that calculations are reasonable.

Attachment

AC's
DC's
SRC
Regional Agronomist, Portland
Kenneth L Williams
NMSO Records Management

U.S. Department of Agriculture
Soil Conservation Service

POUNDS OF GRASS SEED MATERIAL REQUIRED TO YIELD ONE POUND OF PURE LIVE SEED

% PURITY*	PERCENT GERMINATION*																	
	95	90	85	80	75	70	65	60	55	50	45	40	35	30	25	20	15	10
95	1.11	1.16	1.25	1.33	1.43	1.54	1.67	1.82	2.00	2.00	2.22	2.50	2.86	3.33	4.00	5.00	6.67	10.00
90	1.16	1.25	1.33	1.43	1.43	1.54	1.67	1.82	2.00	2.22	2.50	2.86	3.33	4.00	4.00	5.00	6.67	11.10
85	1.25	1.33	1.43	1.43	1.54	1.67	1.82	2.00	2.22	2.22	2.50	2.86	3.33	4.00	5.00	6.67	6.67	12.50
80	1.33	1.43	1.43	1.54	1.67	1.82	2.00	2.00	2.22	2.50	2.86	3.33	3.33	4.00	5.00	6.67	8.33	12.50
75	1.43	1.43	1.54	1.67	1.82	1.82	2.00	2.22	2.50	2.50	2.86	3.33	4.00	4.00	5.00	6.67	9.90	12.50
70	1.54	1.54	1.67	1.82	1.82	2.00	2.22	2.50	2.50	2.86	3.33	3.33	4.00	5.00	5.00	6.67	9.90	14.30
65	1.67	1.67	1.82	2.00	2.00	2.22	2.50	2.50	2.86	2.86	3.33	4.00	4.00	5.00	6.67	6.67	10.00	14.30
60	1.82	1.82	2.00	2.00	2.22	2.50	2.50	2.86	2.86	3.33	4.00	4.00	5.00	5.00	6.67	8.33	11.10	16.70
55	2.00	2.00	2.22	2.22	2.50	2.50	2.86	2.86	3.33	3.33	4.00	5.00	5.00	6.67	6.67	9.90	12.50	16.70
50	2.00	2.22	2.22	2.50	2.86	2.86	2.86	3.33	3.33	4.00	4.00	5.00	5.00	6.67	6.67	10.00	12.50	20.00
45	2.22	2.50	2.86	2.86	2.86	3.33	3.33	4.00	4.00	4.00	5.00	5.00	6.67	6.67	9.90	11.10	14.30	20.00
40	2.50	2.86	2.86	3.33	3.33	3.33	4.00	4.00	5.00	5.00	5.00	6.67	6.67	8.33	10.00	12.50	16.70	25.00
35	2.86	3.33	3.33	3.33	4.00	4.00	4.00	5.00	5.00	5.00	6.67	6.67	8.33	9.90	11.10	14.30	20.00	25.00
30	3.33	4.00	4.00	4.00	4.00	5.00	5.00	5.00	6.67	6.67	6.67	8.33	9.90	11.10	12.50	16.70	20.00	33.30
25	4.00	4.00	5.00	5.00	5.00	5.00	6.67	6.67	6.67	6.67	9.90	10.00	11.10	12.50	16.70	20.00	25.00	33.30
20	5.00	5.00	6.67	6.67	6.67	6.67	6.67	8.33	9.90	10.00	11.10	12.50	14.30	16.70	20.00	25.00	33.00	50.00
15	6.67	6.67	6.67	8.33	9.90	9.90	10.00	11.10	12.50	12.50	14.30	16.70	20.00	20.00	25.00	33.30	50.00	50.00
10	10.00	11.10	11.10	12.50	12.50	13.35	14.30	16.70	16.70	20.00	20.00	25.00	25.00	33.30	33.30	50.00	50.00	100.00

*From seed tag

Apply purity and germination figures from the seed tag, and read the table in the same manner as you would a road mileage chart. Where the lines cross, the poundage shown is the approximate amount of seed MATERIAL required to yield ONE POUND OF PURE-LIVE-SEED.

EXAMPLE: Purity 35%, germination 60% comes out to 5.00 pounds of material equals one pound of pure-live-seed (PLS). Seed analysis figures seldom come out to a whole number ending in a "0" or "5" but, for use with this table, use the nearest such whole number.

EXAMPLES: 47.50 to 52.49 would read as 50%; 52.50 to 57.49 would read as 55%; etc.

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