Project Title:

2023 Pea Seeding Rate

Objective:

To determine the most efficient seeding rate for field pea production in Northwest Montana

Personnel:

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Summary:

Seven different seeding rates were deployed during this 2023 trial. Seeding rate ranged from three to fifteen live seeds/ft². This trial determined that after nine live seeds/ft², yield does not increase. Yield ranged from 11.53 Bu/A (3 live seeds/ft²) to 29.18 Bu/A (13 live seeds/ft²). For total agronomic performance, see table 2.

Seeding date:	4/25/2023 (Julian 115)	Field Location:	P2
Seeding rate:	various	Harvest date:	8/4/2023 (Julian 220)
Previous crop:	Perennial Forage Trial	Soil type:	Creston Silt Loam
		Tillage:	Conventional
Herbicide:	Pursuit/ Basagran	Soil residual nutrient	102-19-201 (Fall,
Insecticide:	N/A	(NO ₃₋ , P, K lb/A):	2022)
Fungicide:	N/A	Nutrient fertilizer applied (N, P ₂ O ₅ , K ₂ O lb/A):	17.5g of MAP per plot (Spring, 2023)

Table 2. Agronomic Performance

Live Seeds/ft2	Yield Bu/Ac	% Protein	TKW, g
13	29.2	21.4	214.6
11	28.4	21.6	217.5
9	25.7	21.3	221.8
15	25.5	21.5	217.4
7	22.5	20.5	205.7
5	18.1	21.1	197.1
3	11.5	20.8	202.0
Mean	23.0	21.2	210.9
CV	26.4	4.5	8.3
LSD	9.0	ns	ns
PR>F	0.008	0.651	0.387

ns: not significant, TKW: thousand kennel weight



