



Predispersal seed predation of
Wyethia amplexicaule, *Crepis*
acuminata, and *Agoseris glauca*

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Project History

- 2005
- 2006
- 2007



Idaho –Twin Falls Co. ●

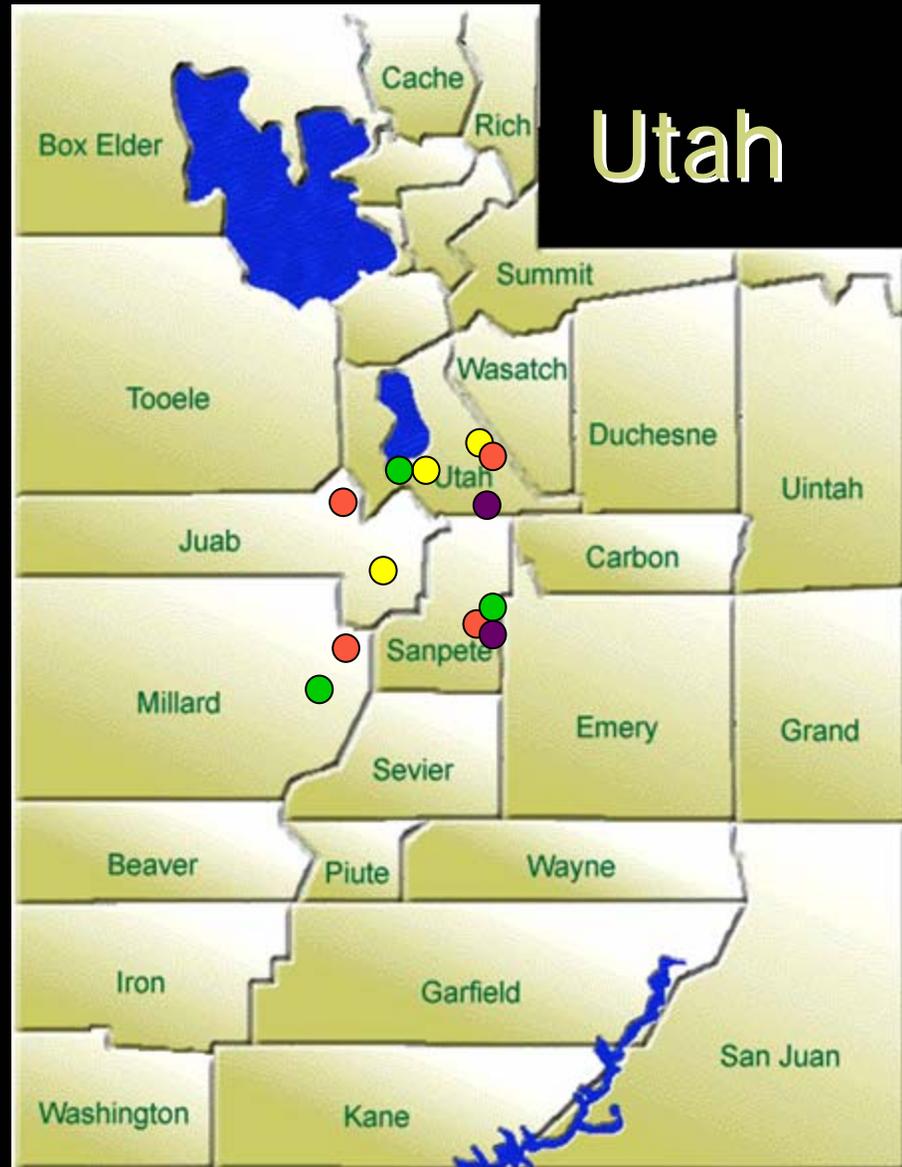
Study sites

Crepis ●

Agoseris ●

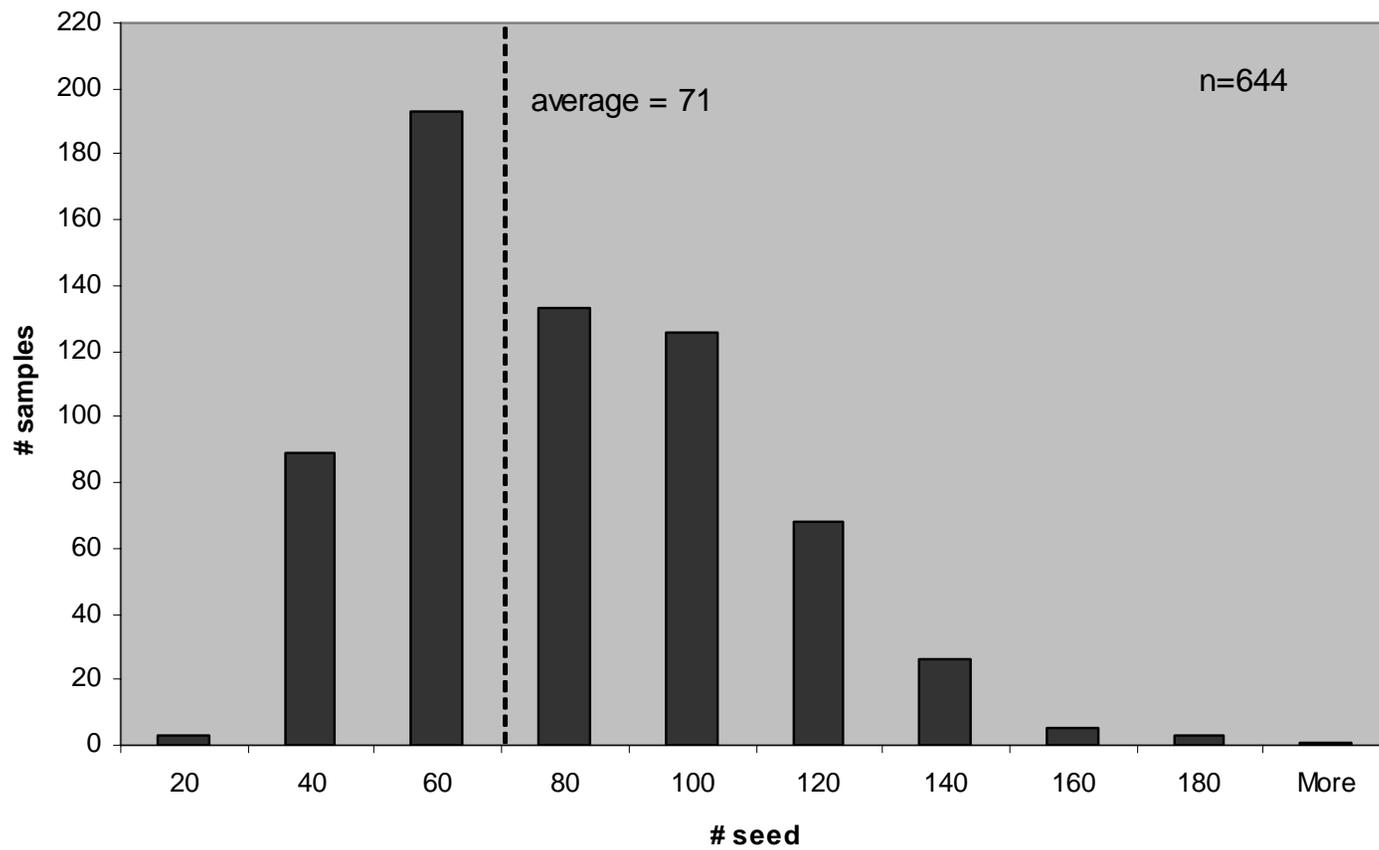
Wyethia ●

Balsamorhiza ●



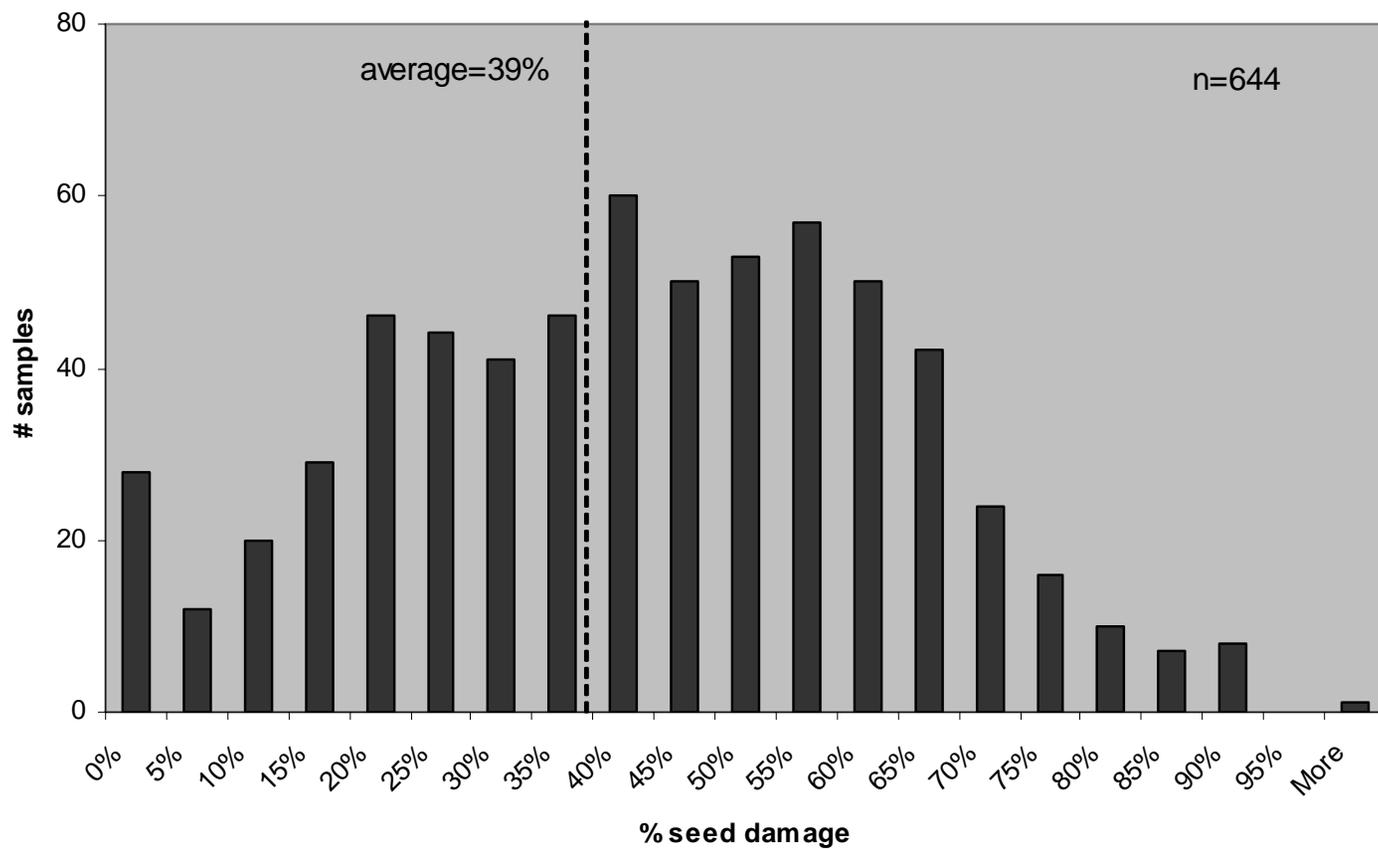


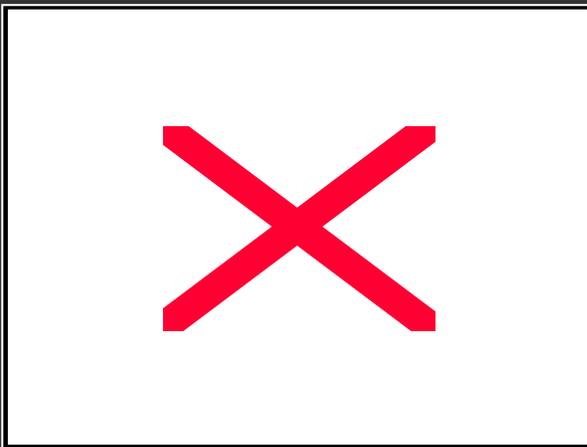
Histogram: seed/capitulum, *Wyethia amplexicaule*



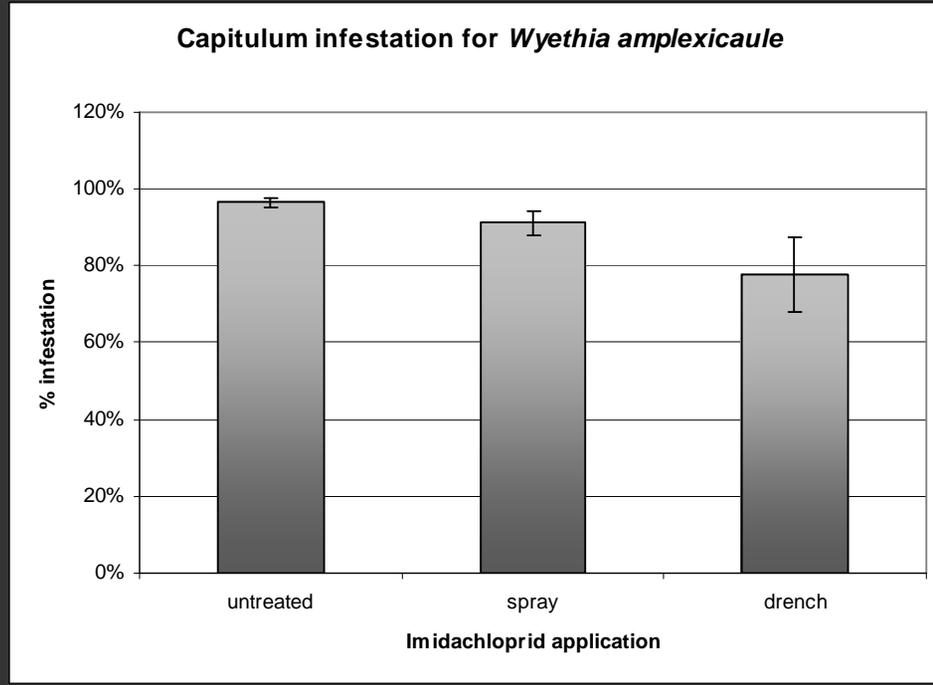
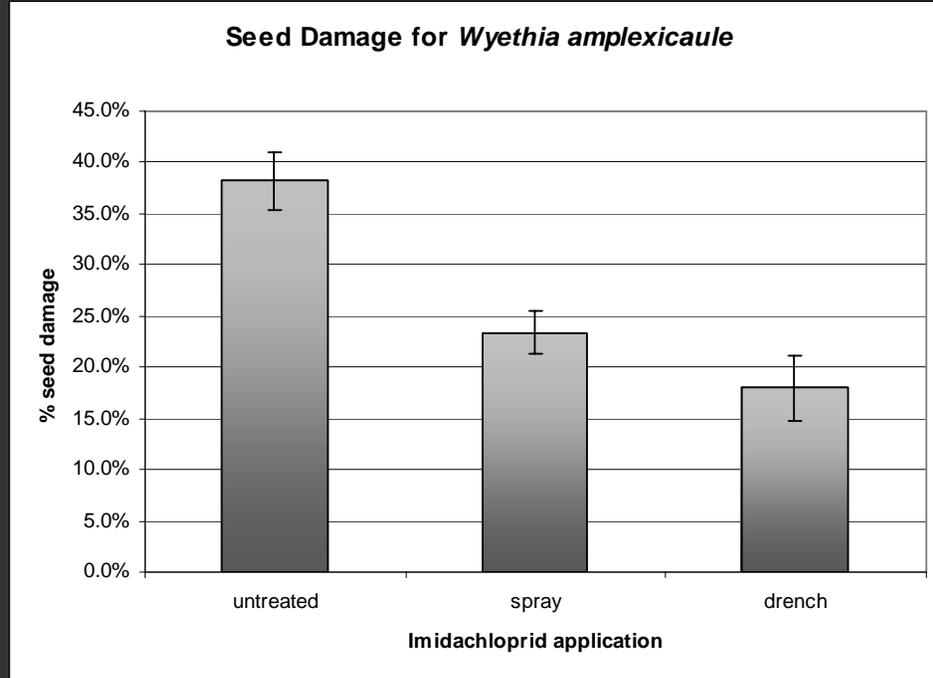


Histogram: seed damage, *Wyethia amplexicaule*



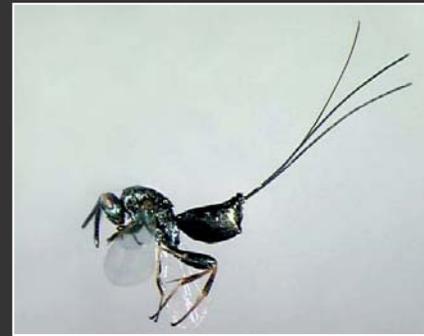


<u>Reared capitula:</u>	666
<i>Neotephritis finalis:</i>	2256
<i>Trupanea nigricornis:</i>	186
Agromyzidae:	15
Lepidoptera:	10
Coleoptera:	14

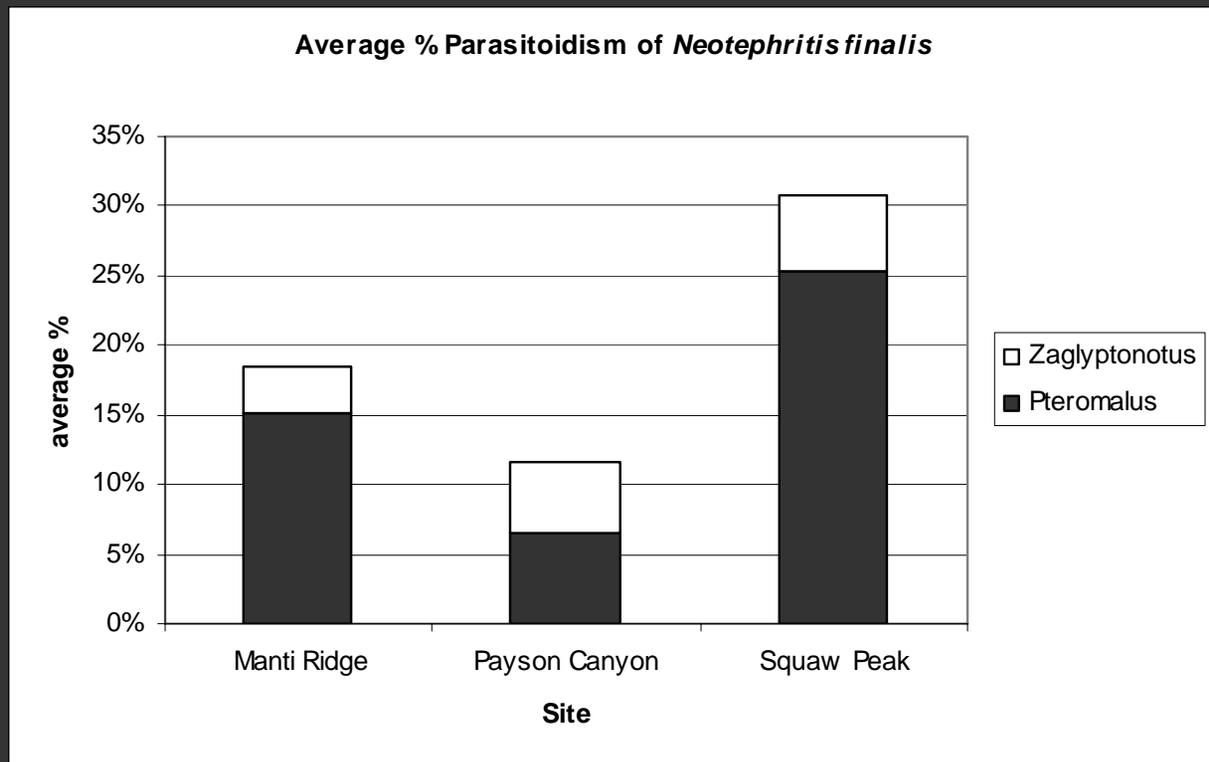




361-*Pteromalus* sp.

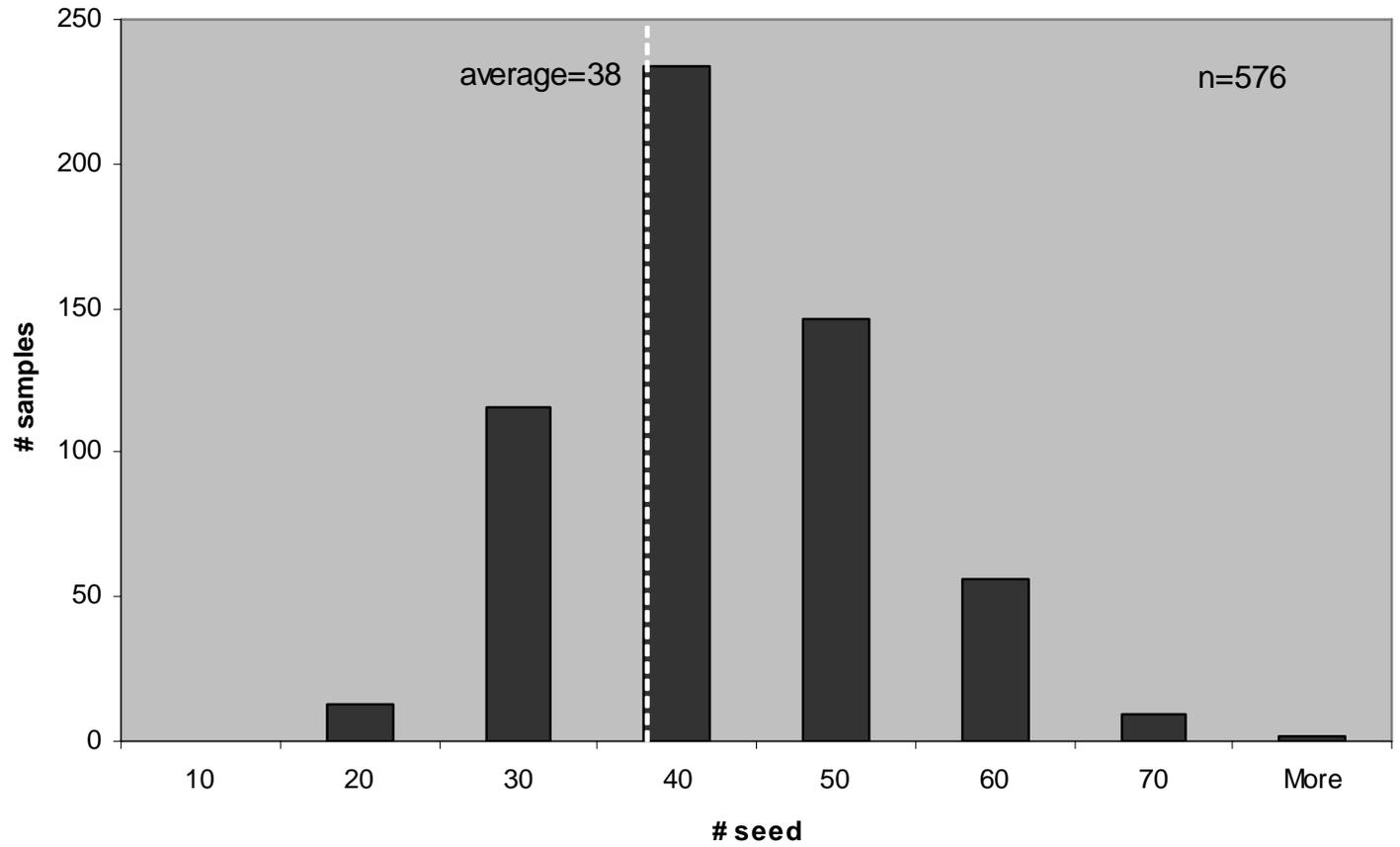


86 -*Zaglyptonotus mississippiensis*



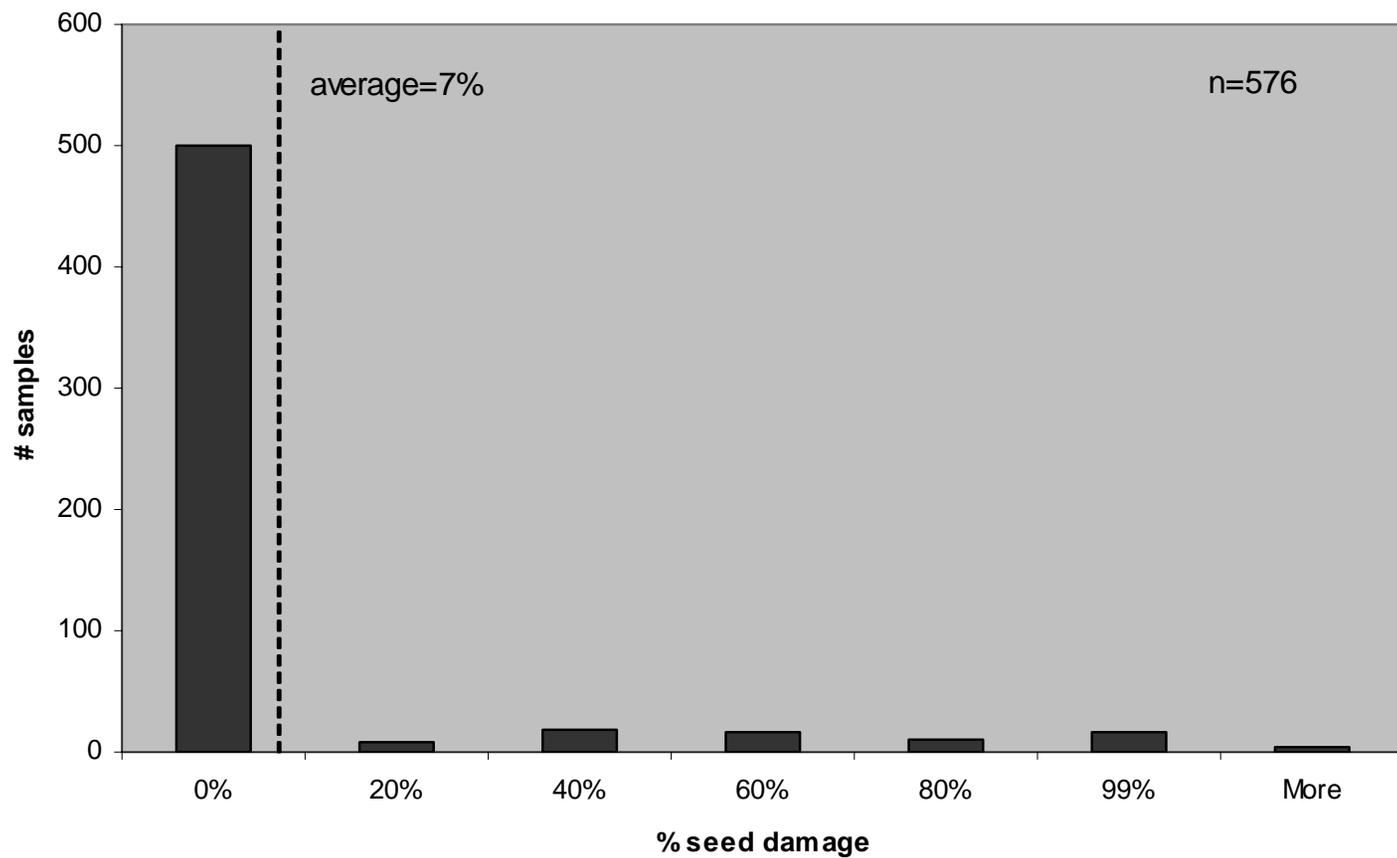


Histogram: seed/capitulum, *Agoseris glauca*





Histogram: seed damage, *Agoseris glauca*





Reared capitula: 488

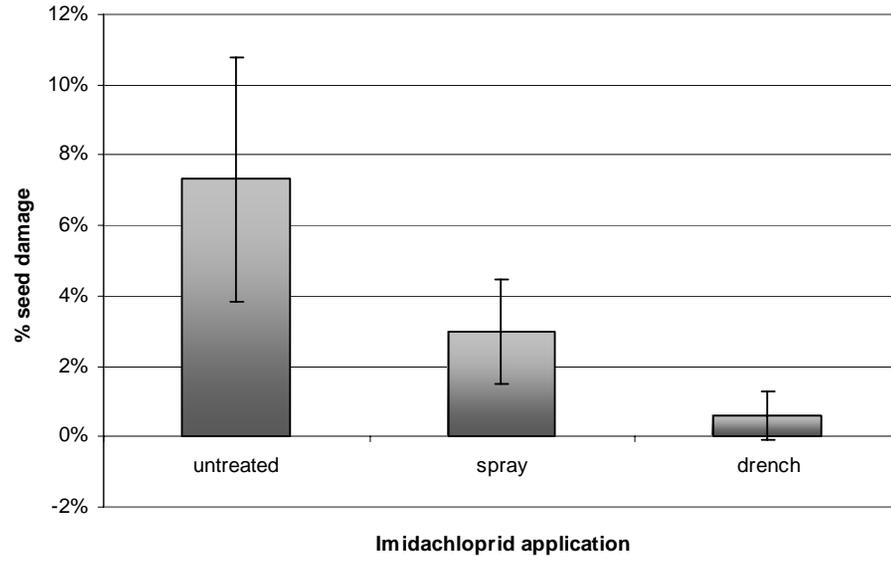
Paroxyna sp.n.: 155

Diptera (unknown): 18

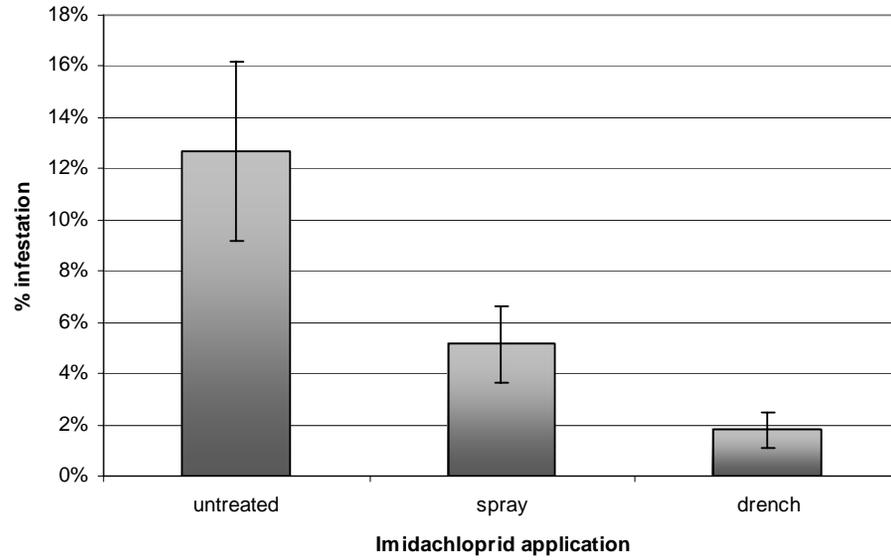
*single site



Seed Damage for *Agoseris glauca*

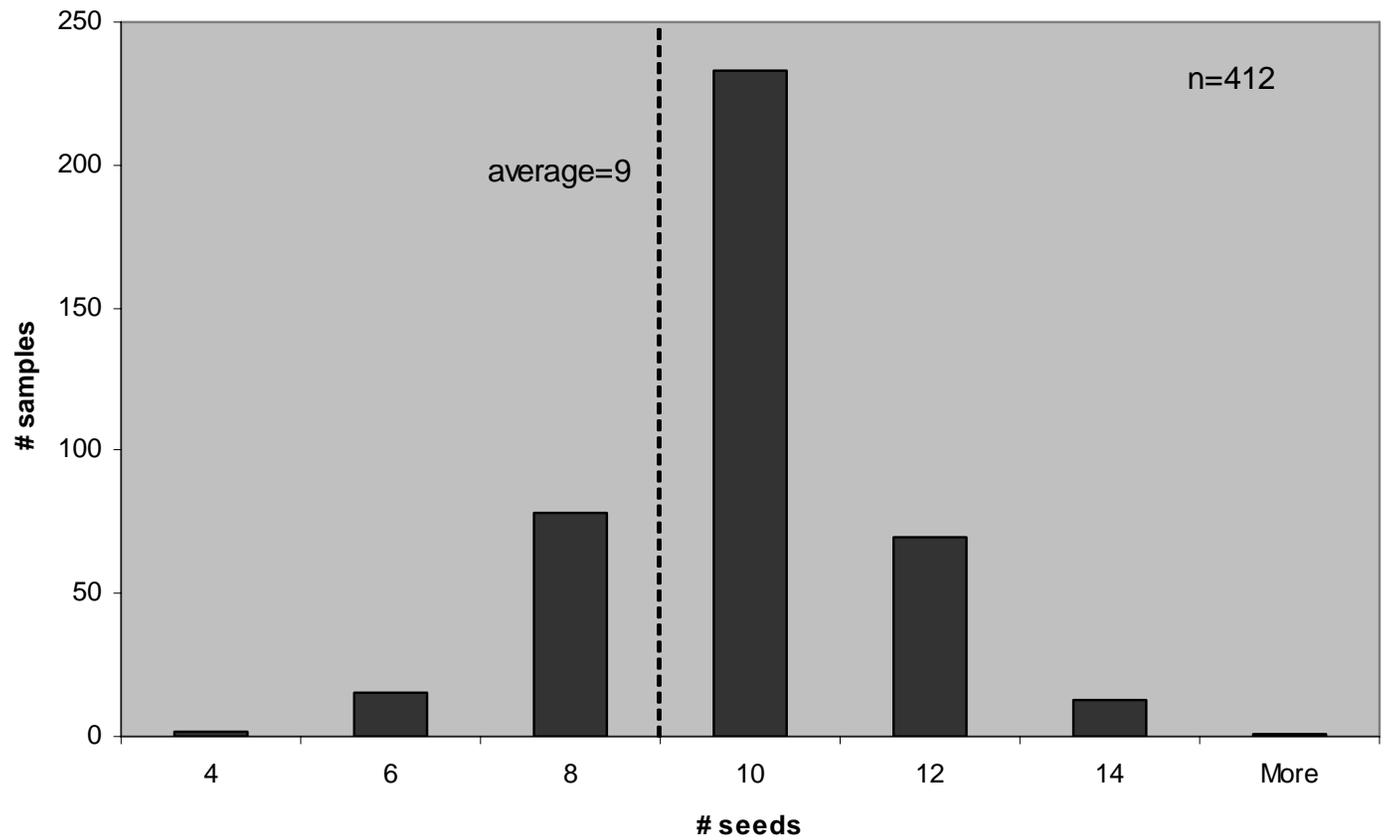


Capitulum infestation for *Agoseris glauca*



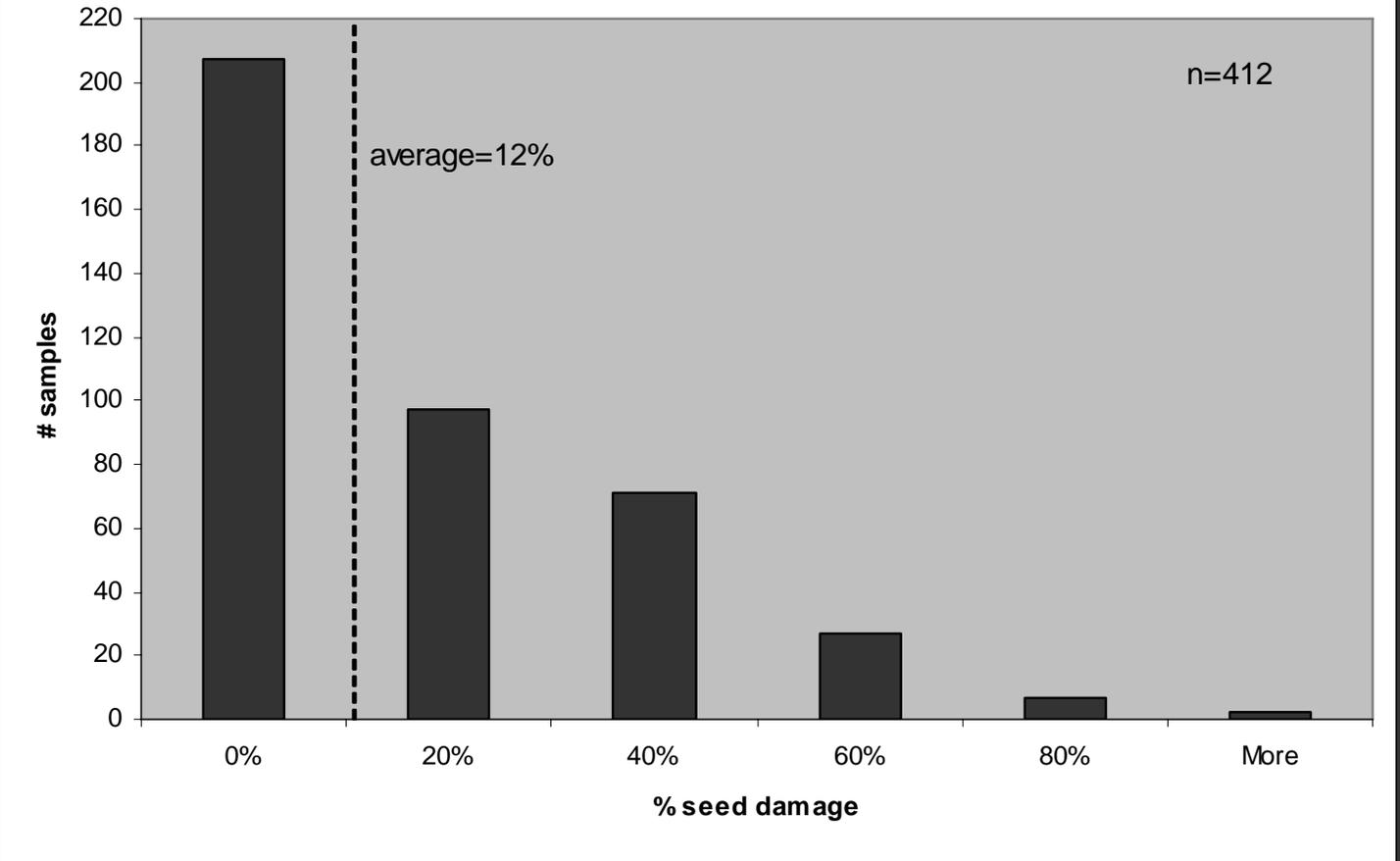


Histogram: seed/capitulum, *Crepis acuminata*





Histogram: seed damage, *Crepis acuminata*





Reared capitula: 2859

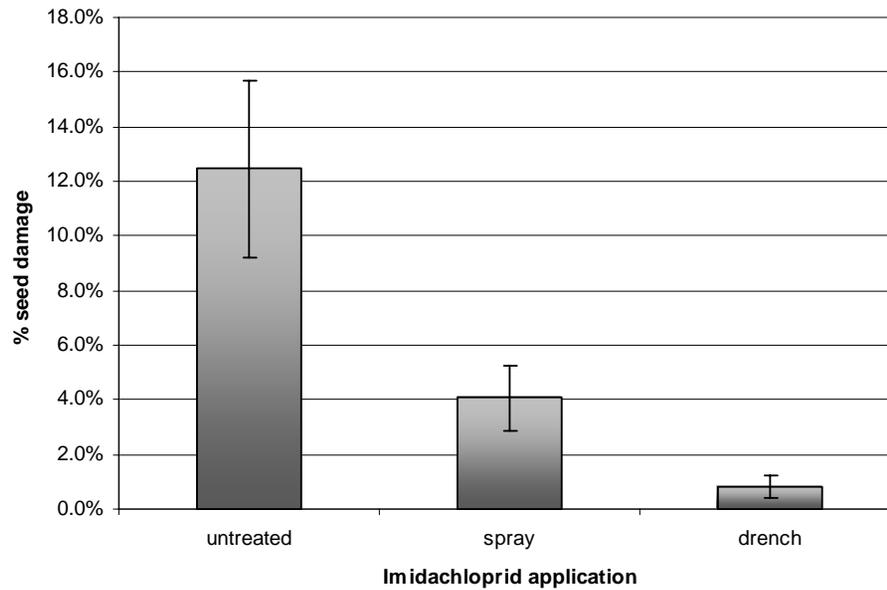
Paroxyna sp.n.: 26

Phycitodes albatella: 123

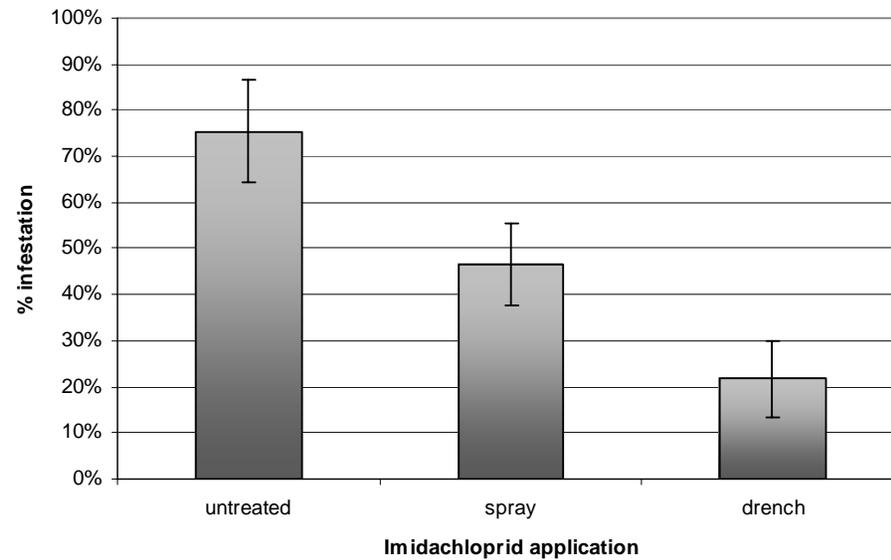




Seed Damage for *Crepis acuminata*



Plant infestation for *Crepis acuminata*



Conclusions

	% seed damage			% yield increase (imidachloprid drench)		
	low	high	average	low	high	average
<i>Wyethia</i>	31%	47%	39%	8%	29%	21%
<i>Agoseris</i>	0%	21%	7%	5%	21%	6%
<i>Crepis</i>	1%	22%	12%	1%	22%	11%

Seeding Depth

Competition Analysis