Characterization of the damage generated by *Blastocerus*dichotomus in forest plantations in the Delta of Paraná river: towards the design of a push-pull system

Advances 2018

















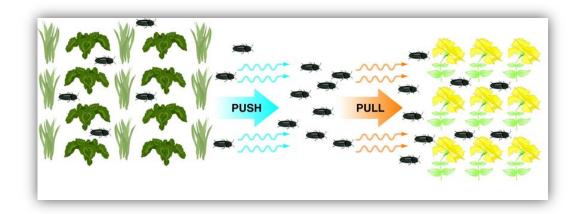


Conservation of the largest cervid of South America: interactions between people and the Vulnerable marsh deer *Blastocerus dichotomus*



M. EUGENIA IEZZI, NATALIA G. FRACASSI and JAVIER A. PEREIRA Orvx. 2017 Fauna & Flora International

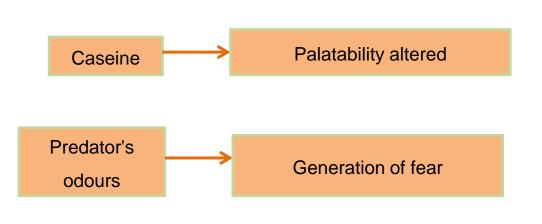
- Implementation of strategies to minimize damage: use of chemical repellents, odor and visual barriers, physical barriers, dogs, alternative sources of food and hunting control.
 - Push-pull systems:
 - -Integration of stimuli → repellency to a resource which need to be protected + attraction to an alternative resource with low or no commercial value.



Activities completed during the first part of the year

• Review of the repellency methods to minimize deer damage for a future application in the Delta of Paraná river.









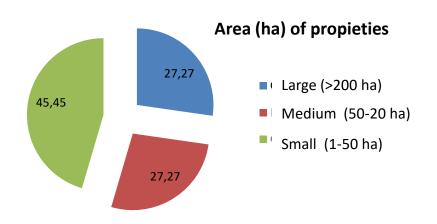
• Interviews to forest producers.

	PROYECTO PANTANO		
	Encuesta sobre daño a plataciones provocado por ciervo en el Bajo Delta del Panna		
	NUMERO FICHA		
	FECHAENTREVISTADORCAMPO		
	COORDENADAS: XYLOCALIDAD:		
	HABITAT GENERAL:		
	ENTREVISTADO:		
	NOMBRE: SENO: EDAD: CELULAR:		
	ACTIVIDAD: DUEÑO DEL CAMPO EMPLEADO DEL CAMPO OTRO		
	VIVE EN LA LOCALIDAD: HACE CUANTO VIVE EN LA REGION:		
	NO VIVE EN LA LOCALIDAD, CADA CUANTO VISITA EL ESTABLECIMIENTO		
	PRODUCCIÓN:		
	EMPRENDIMIENTO FAMILIAR EMPRESARIAL	28	
	SUPERFICIE PROPIEDAD SUP_DEDICADA A PORESTACION	S .	
	QUÉ PRODUCE: ALAMO (1) SAUCE(2) MIMBRE(2)		
	ESPECIFICAR VARIEDAD: (1) (2) (3)		
	DESTINO PRODUCCIÓN:	-0	
	MANERO PLANTACION: LIMPIO PASAN MAQUINARIA: OTRO:		
	PROTECCION INUNDACIONES:		
	ATAJAREPUNTES:		
	ANTIGUEDAD: PREDIO FORESTAL:PRODUCCION ACTUAL:EDAD DE LOS RODALES:	-8	
	PRESENCIA GANADO:TODO EL AÑO O ESTACIONAL:		
	PRESENCIACIERVO:		
	AMBIENTES:		
	ÁLAMO JOVEN:ÁLAMO ADULTO:SAUCE JOVEN:SAUCE ADULTO:		
	MIMBREPASTIZALES:PAXINALESBOSQUES:OTRO		
	ÉPOCADE AVISTAJE:		
	TODO EL AÑOVERANOPRIMAVERA:OTOÑO:INVIERNOCRECIENTES		
	DANO PLANTACIONES	=	
	POSEE DAÑO TIPO DE DAÑO:		



Preliminary results: interviews

• Completed 11 interviews to producers (2018)





- Damage surface:
- → 63,6% "a few trees"
- → 18,2% "1/4 of the surface"
- \rightarrow 9 % "3/4 of the surface"
- How do you considere the damage?:
- → 90,9% "Not so important"
- → 9,09% "Very important"

- Type of damage:
- → Bark rubbed: 27,3%
- → Browsing: 9,09%
- → Browsing and barj rubbed: 63,6%

Activities completed during the second part of the year: repellency essays



12%









Activities completed during the second part of the year: repellency essays













Activities completed during the second part of the year: preferency essays

Preferency essays in:

- -Nurseries
- Plot planted in INTA EEA

Willow varieties:

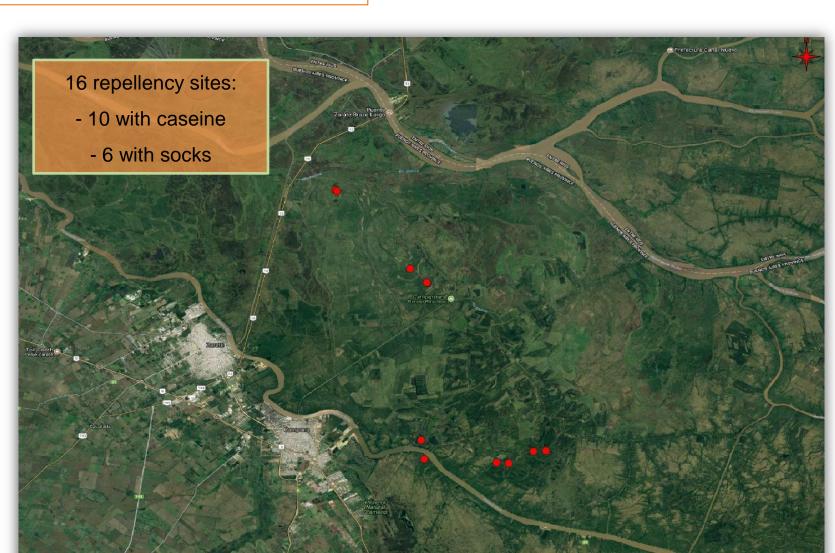
- Agronales
- Géminis
- Lezama
- Humboldtiana
- -Yaguareté

Native species:

- Ceibo
- Anachuita
- Timbó



Preliminary results: repellency essays





Preliminary results: repellency essays (3 months)



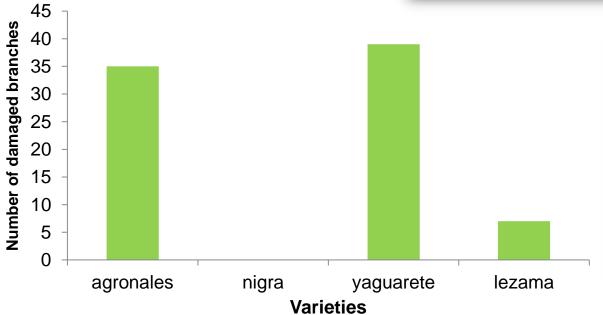
Caseine's essays

	Control	Caseine
% damage	92,7	52,7

T-test=1,91; g.d.l.=19; p-value=0,06 (two tailed)



Preferency (nurseries)





Thank you!

