

Diversidad Genética para la Producción de semillas para la Agricultura Familiar

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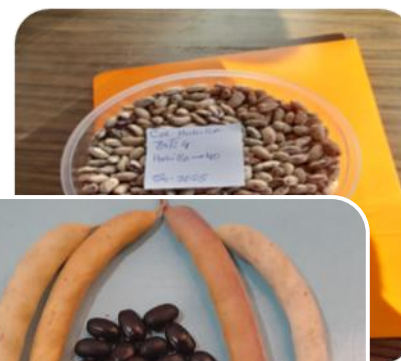
* Autor de correspondencia: amalio.mendoza@ipta.gov.py.

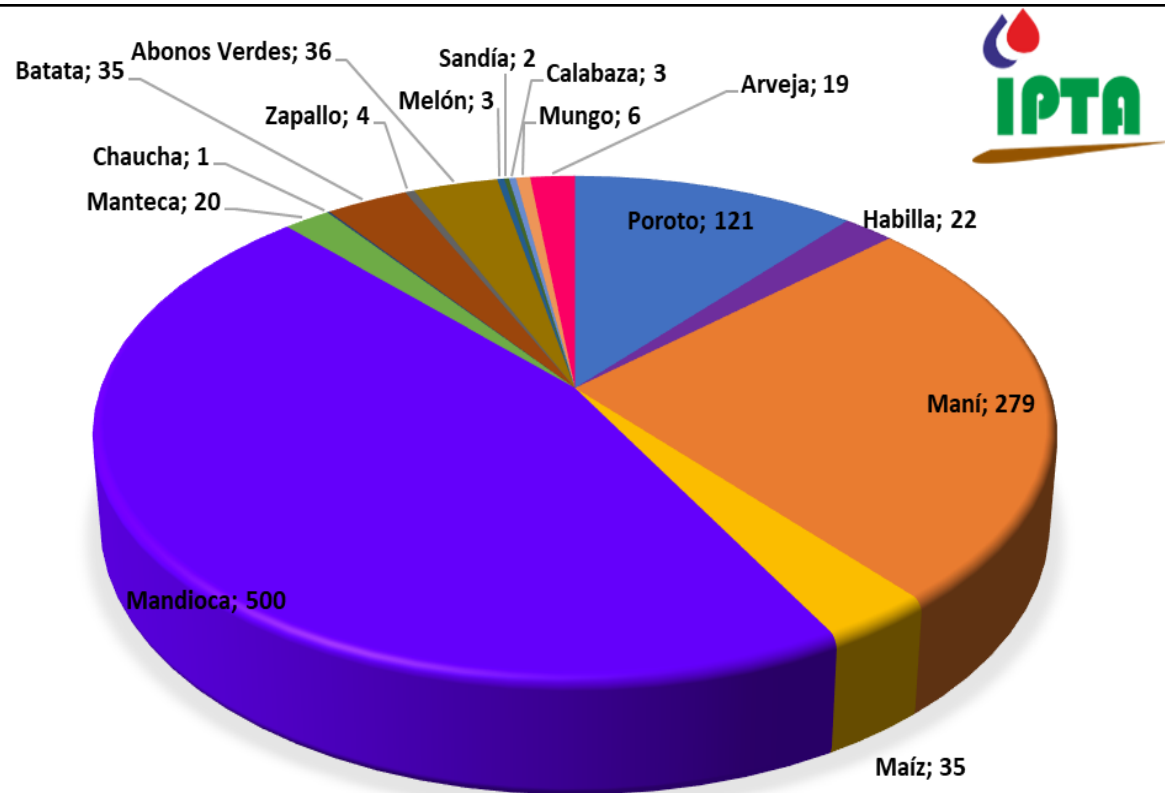


6 y 7 Agosto 2025



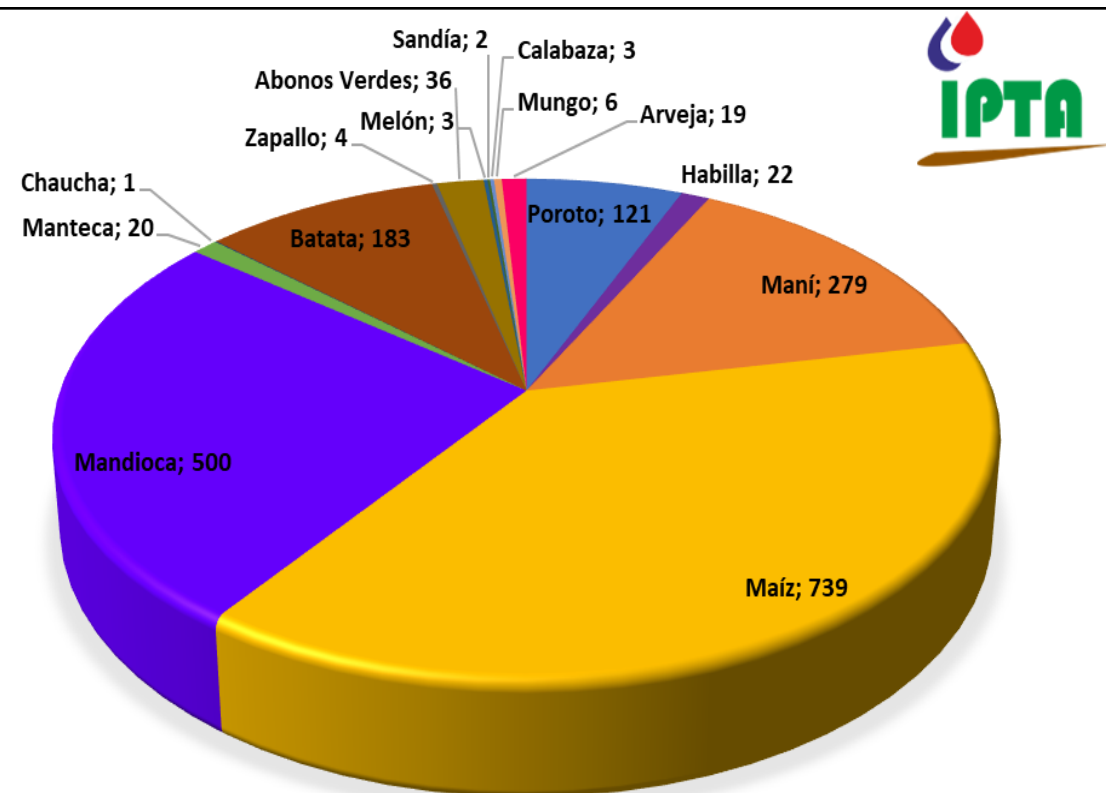
DIVERSIDAD GENÉTICA





Total: 1086 accesiones

Cantidad de Accessos por Especies Conservadas



Total: 1938 accesiones

Cantidad de Accessos por Especies Conservadas



Maní

Distribución

Especies

Accesiones

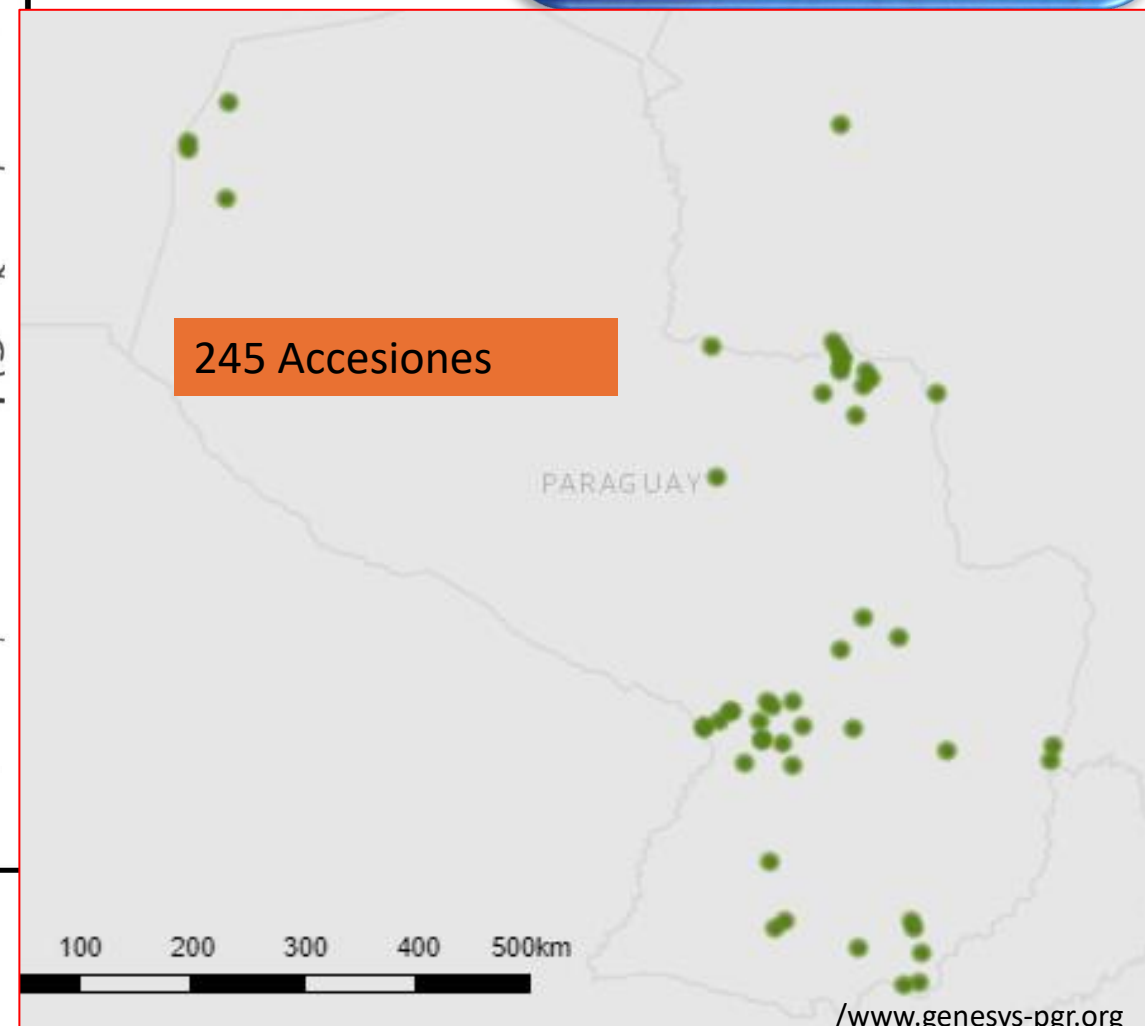
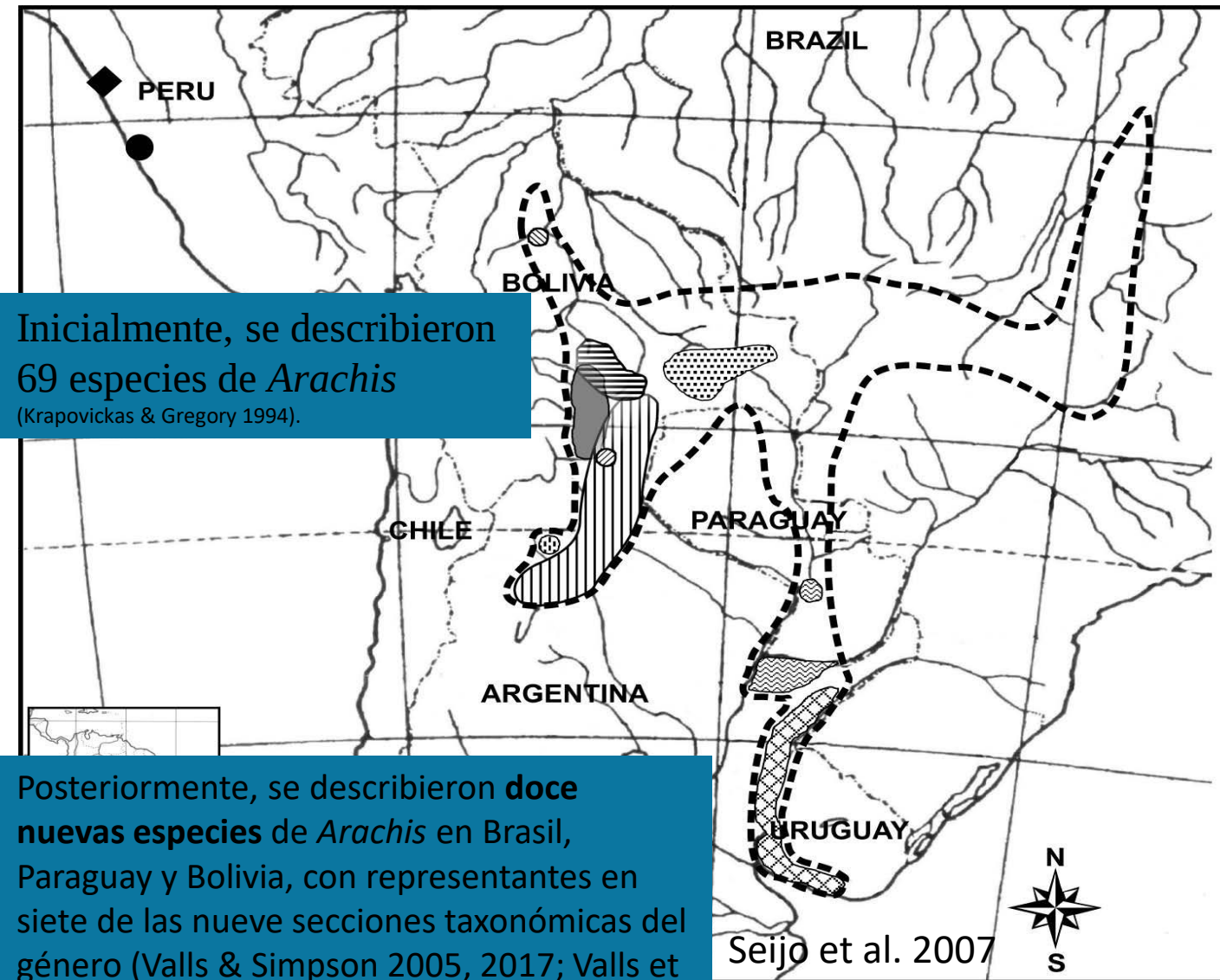
Diversidad

Distribución geográfica



Inicialmente, se describieron
69 especies de *Arachis*
(Krapovickas & Gregory 1994).

Posteriormente, se describieron **doce nuevas especies** de *Arachis* en Brasil, Paraguay y Bolivia, con representantes en siete de las nueve secciones taxonómicas del género (Valls & Simpson 2005, 2017; Valls et al. 2013).



Clasificación Taxonómica

Species

Arachis hypogaea

Bertioli et al. 2011

Subspecies

hypogaea

fastigiata

Botanical varieties

hypogaea

hirsuta

fastigiata

vulgaris

aequatoriana

peruviana

Agronomic types

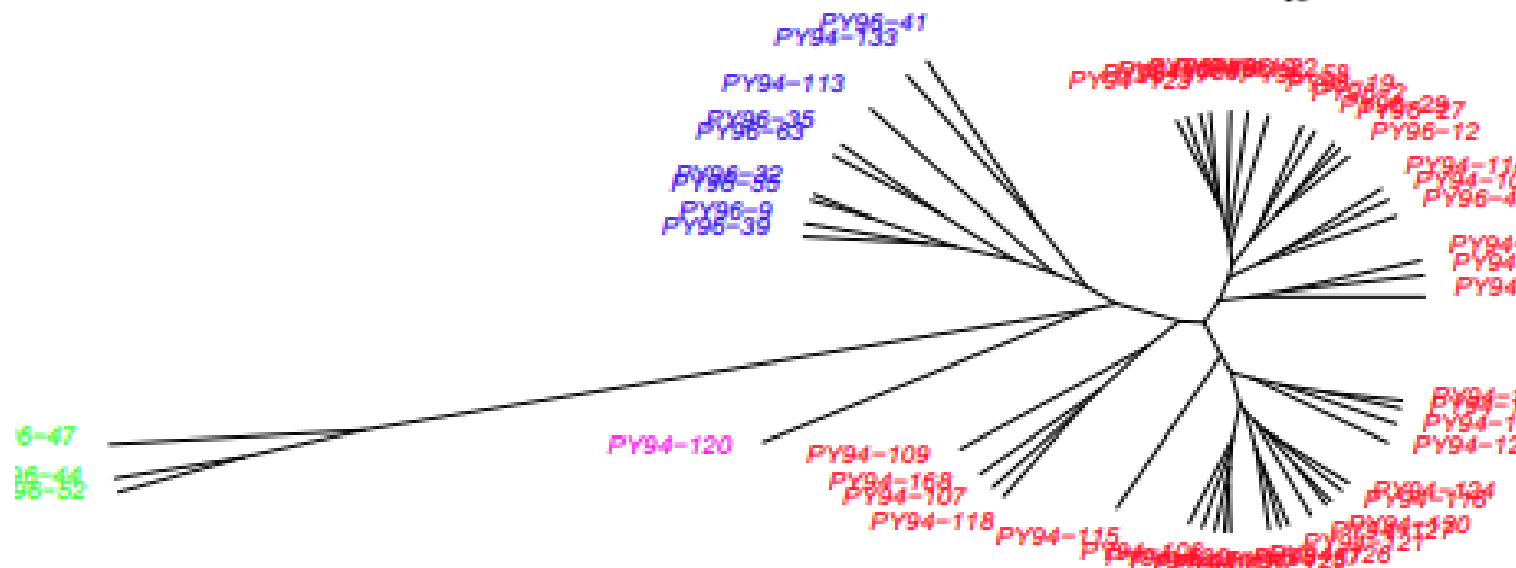
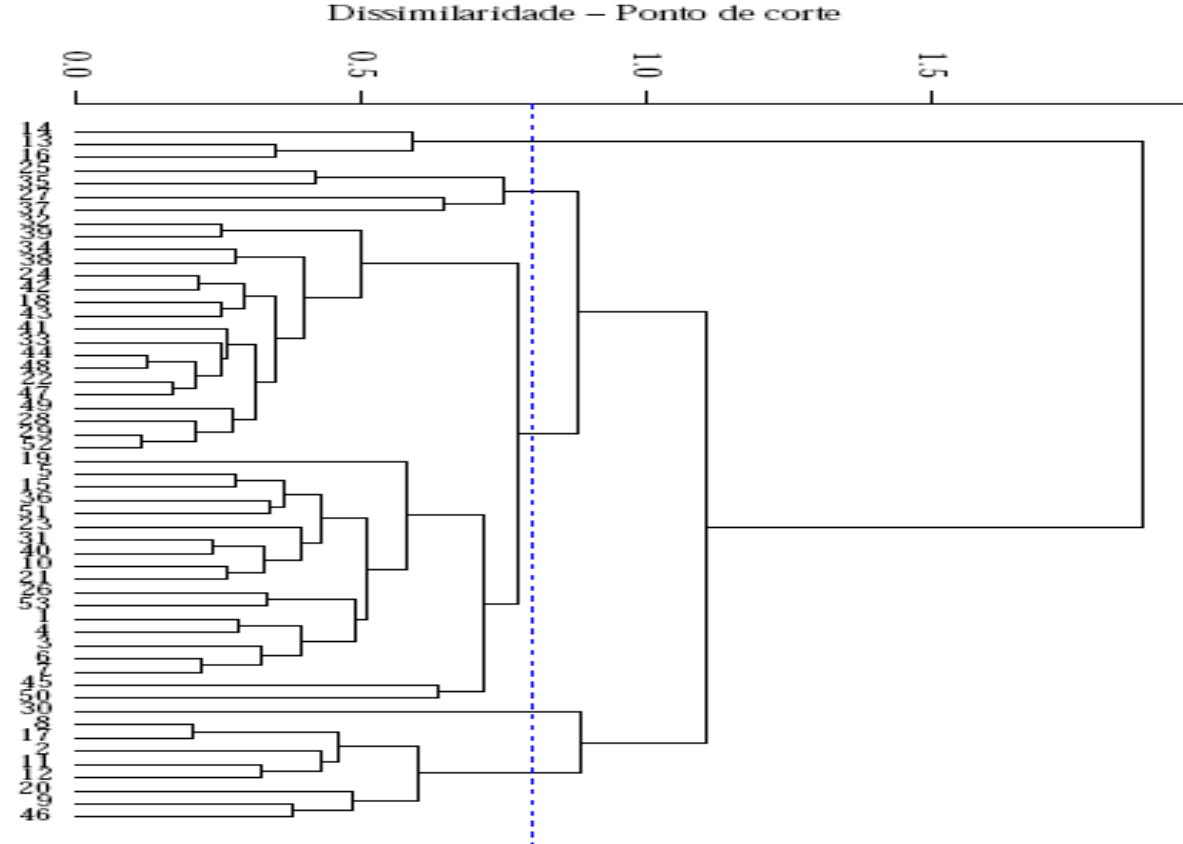
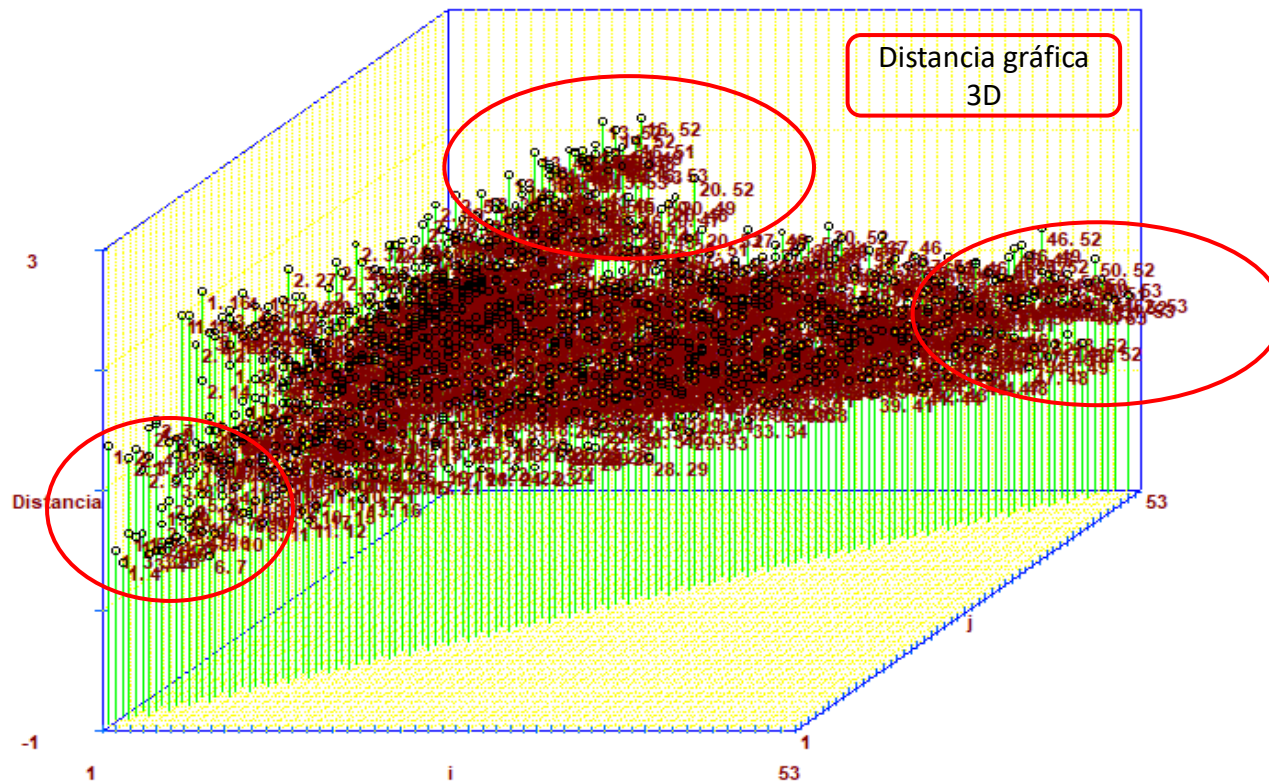
Virginia/Runner

Peruvian Runner

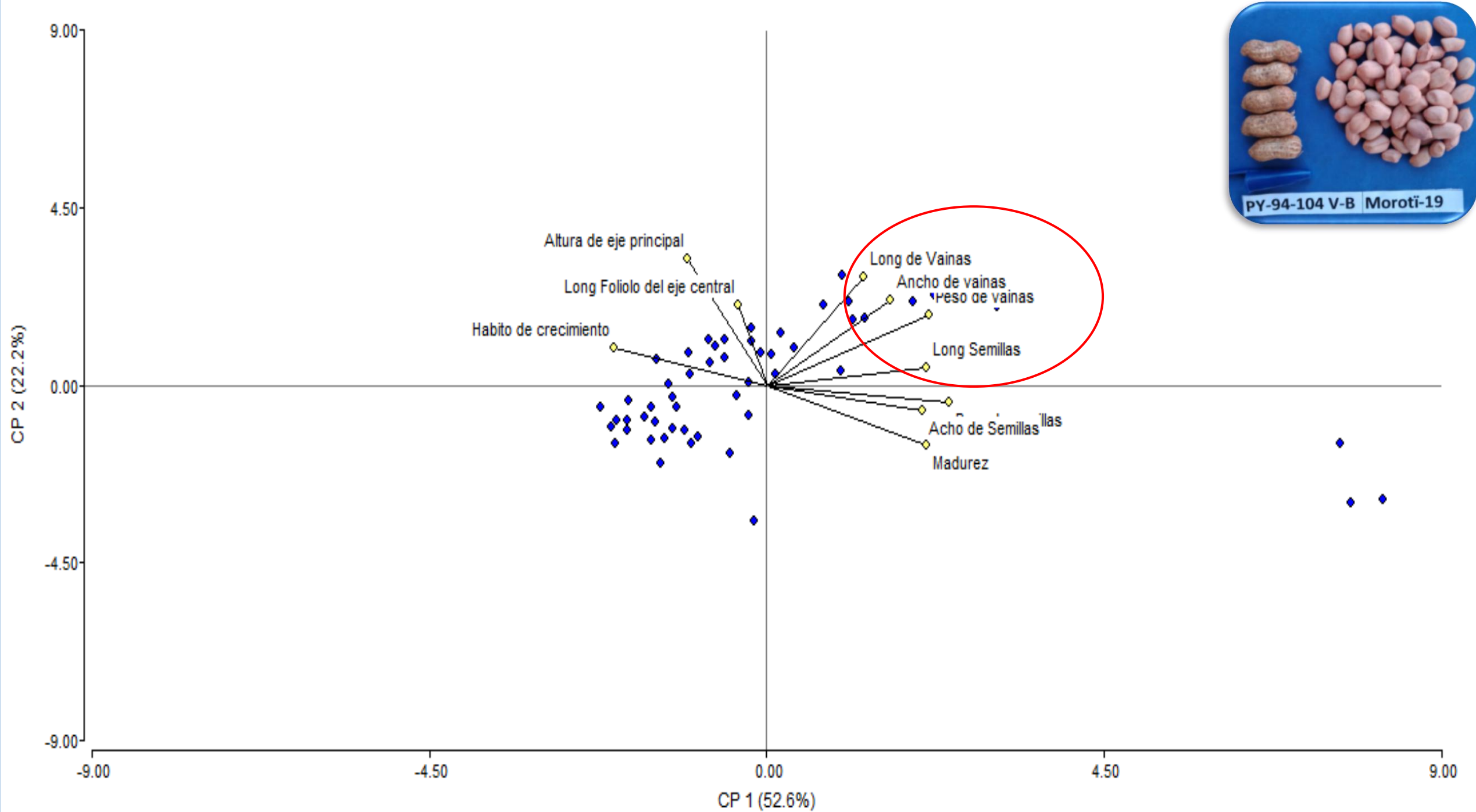
Valencia

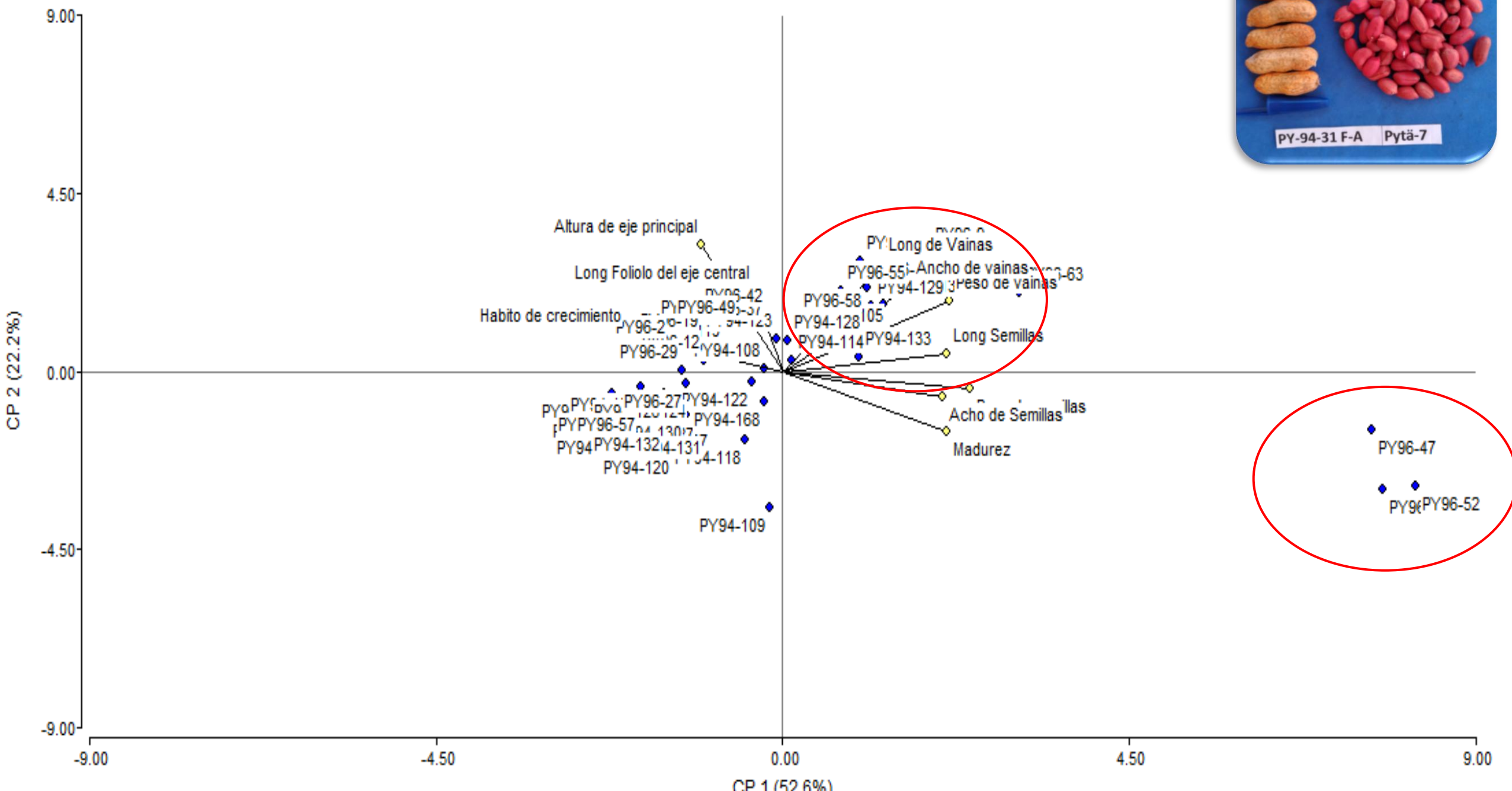
Spanish



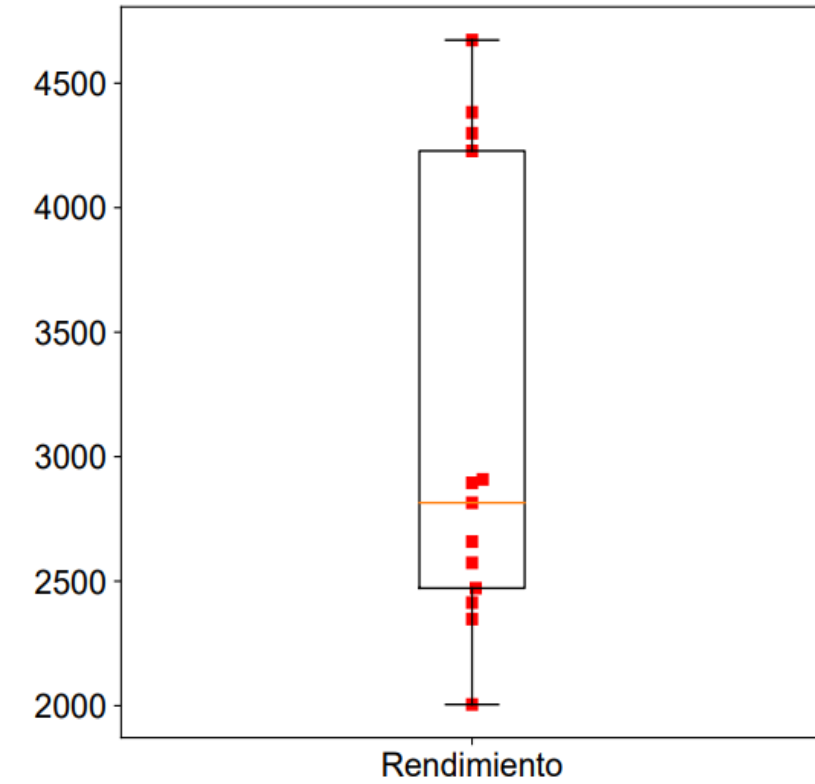
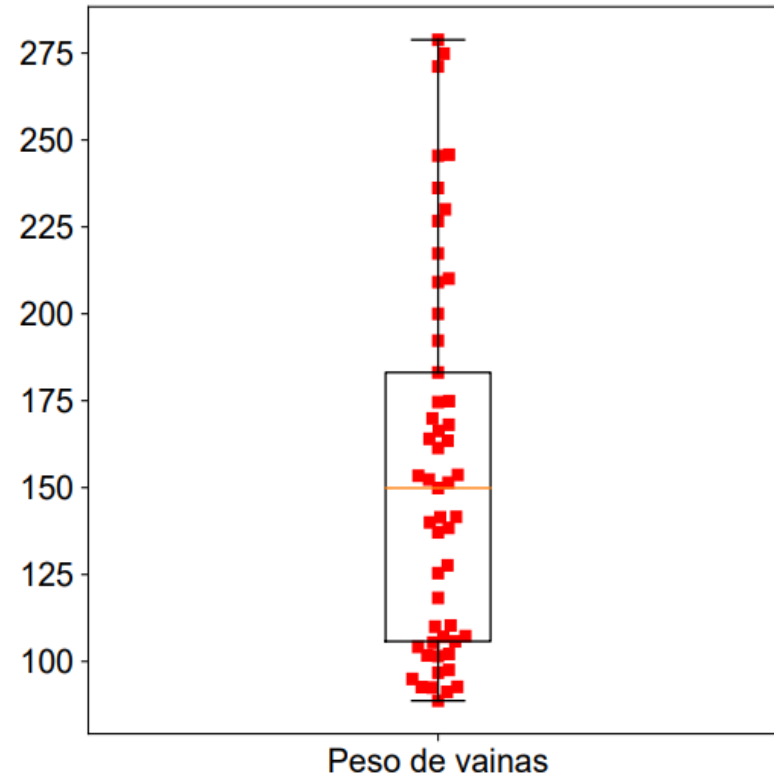
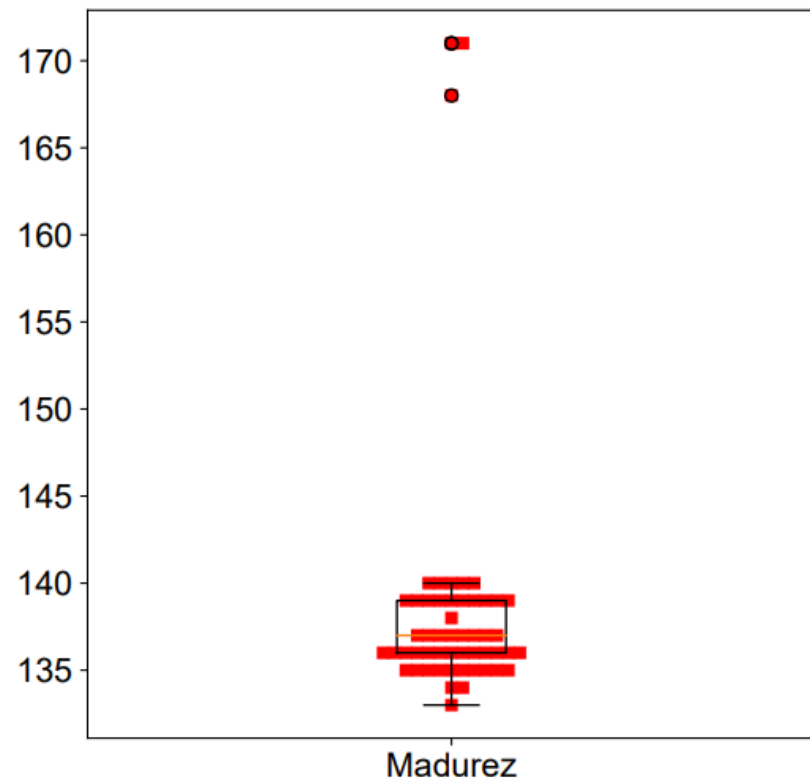


Análisis de
Agrupamiento





Potencialidades para uso Actual







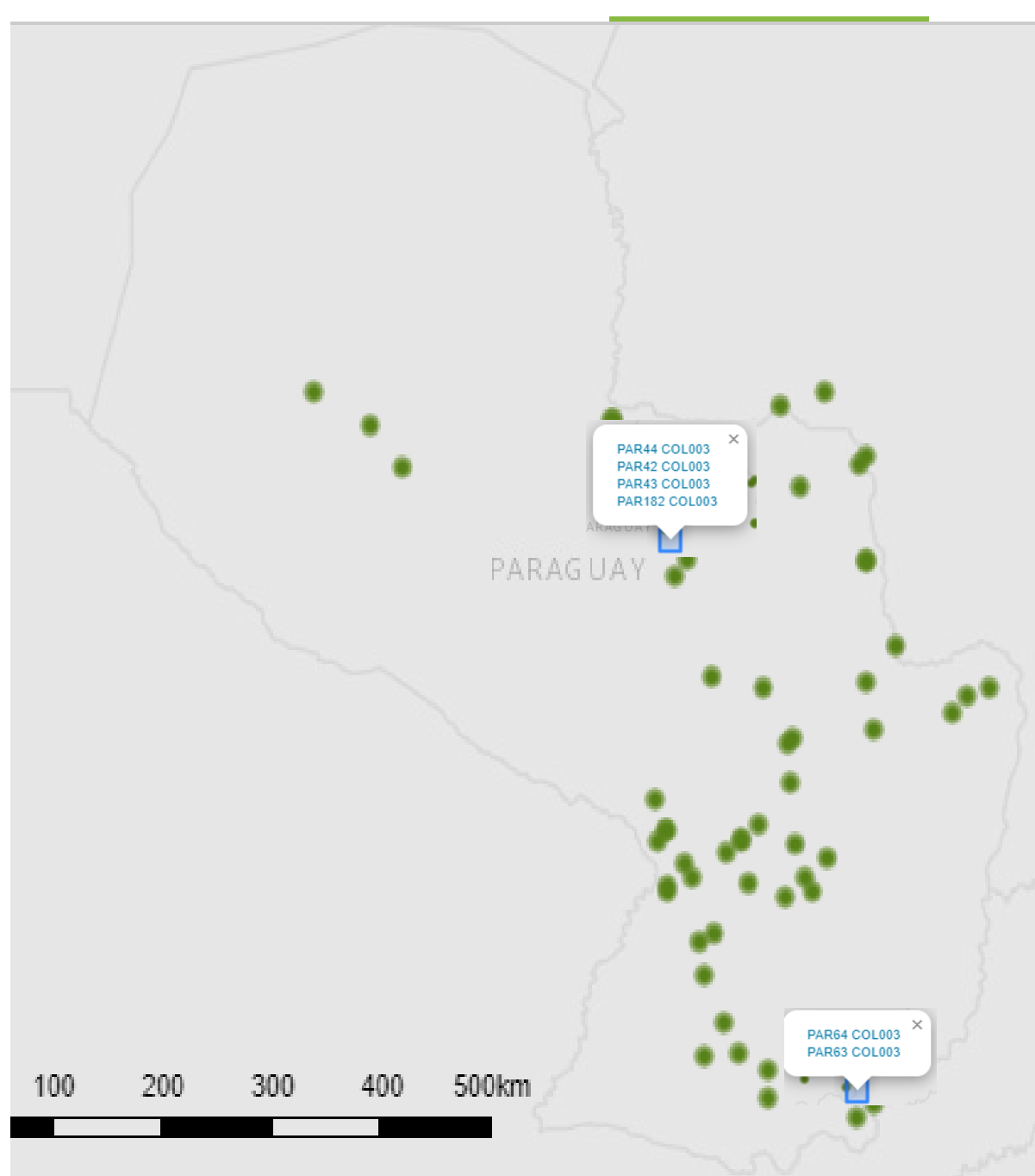
Mandioca

500
Accesiones



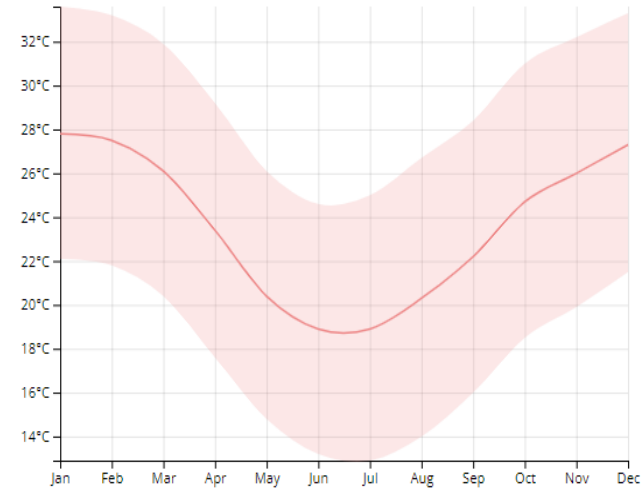


Diversidad
Genética

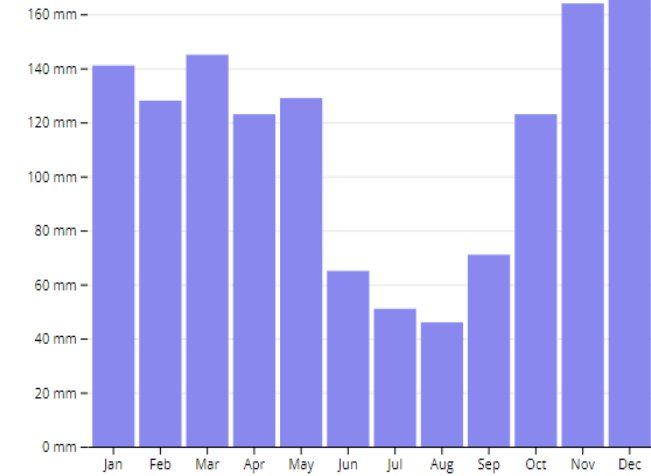


Clima en origen

Temperatura mensual

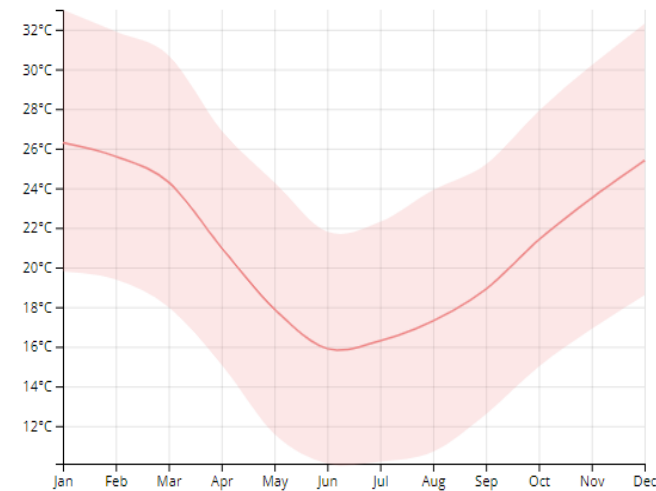


Precipitación mensual

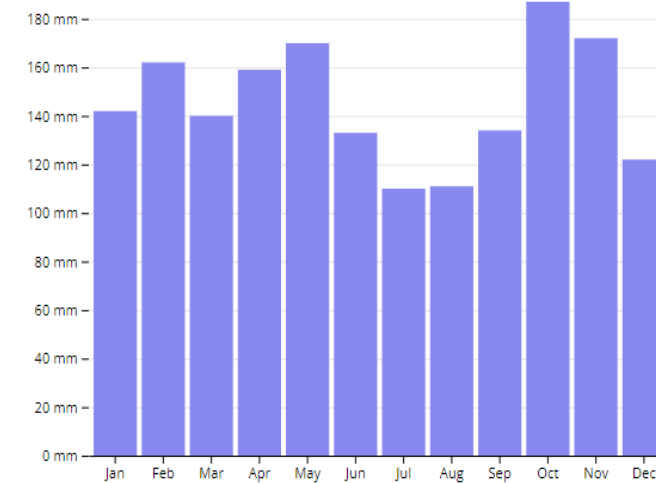


Clima en origen

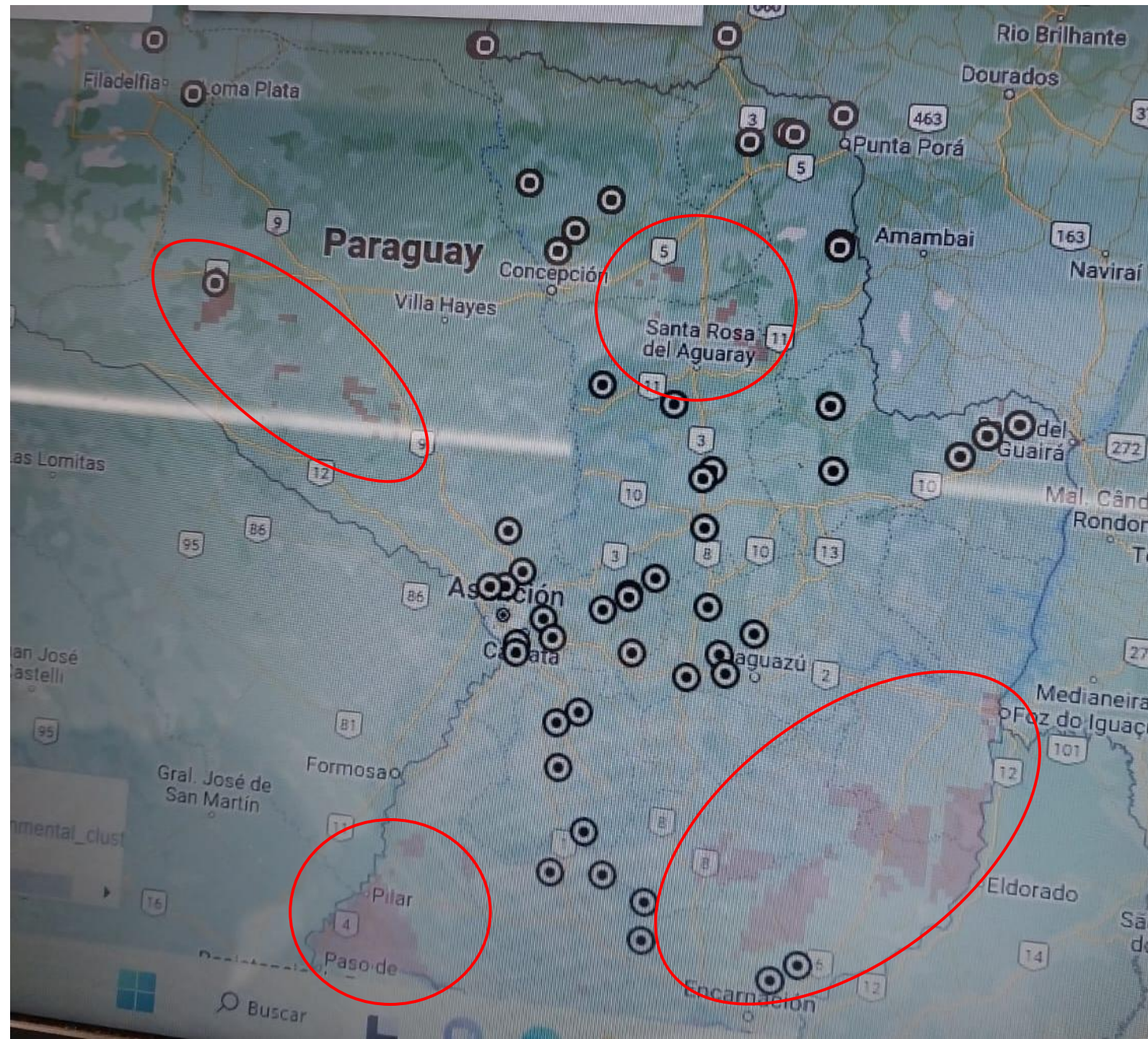
Temperatura mensual

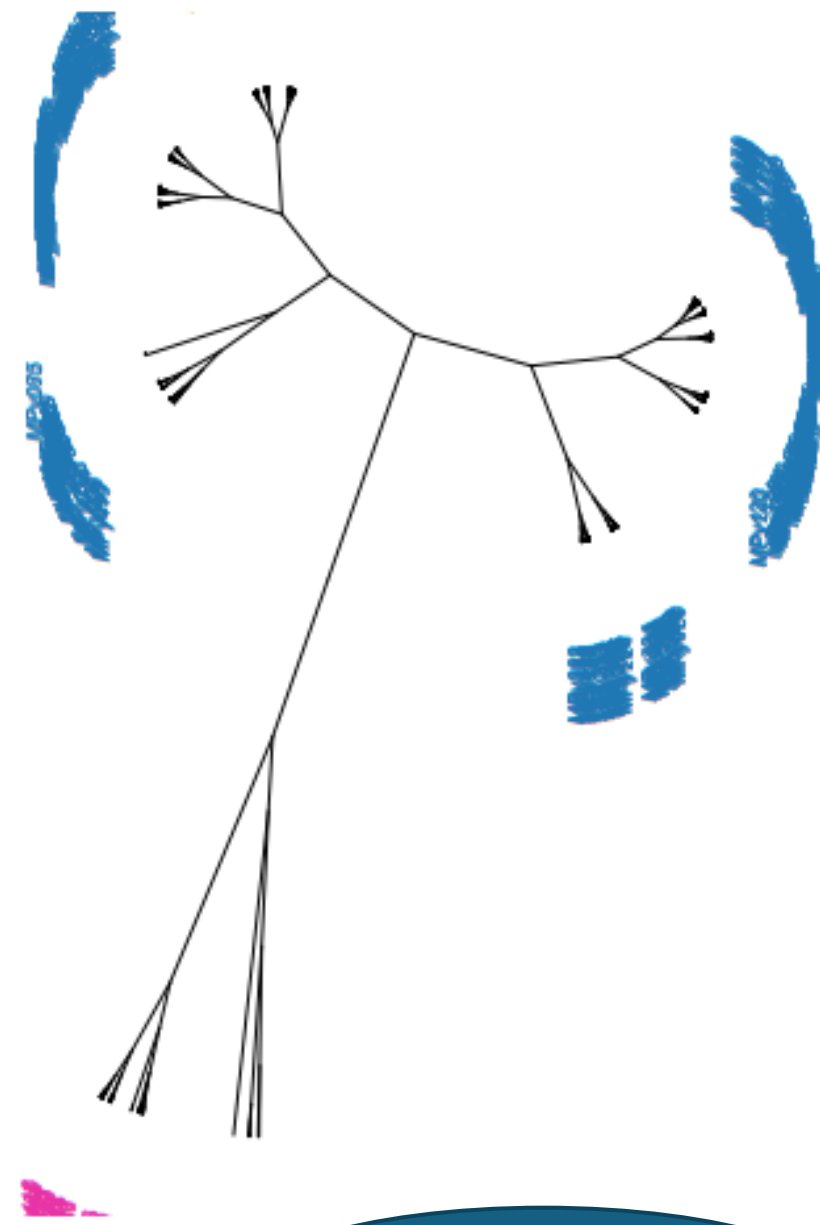
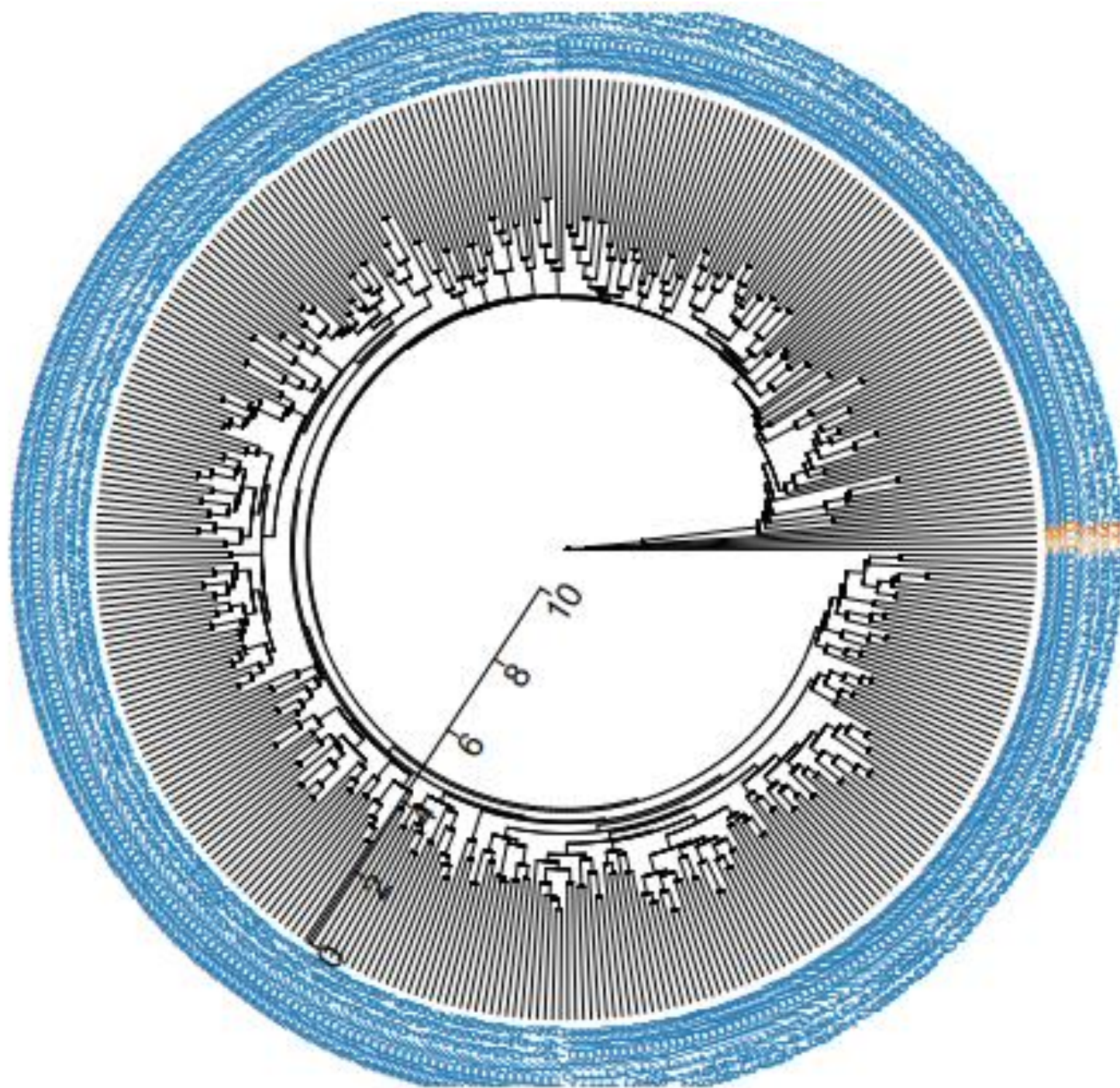


Precipitación mensual



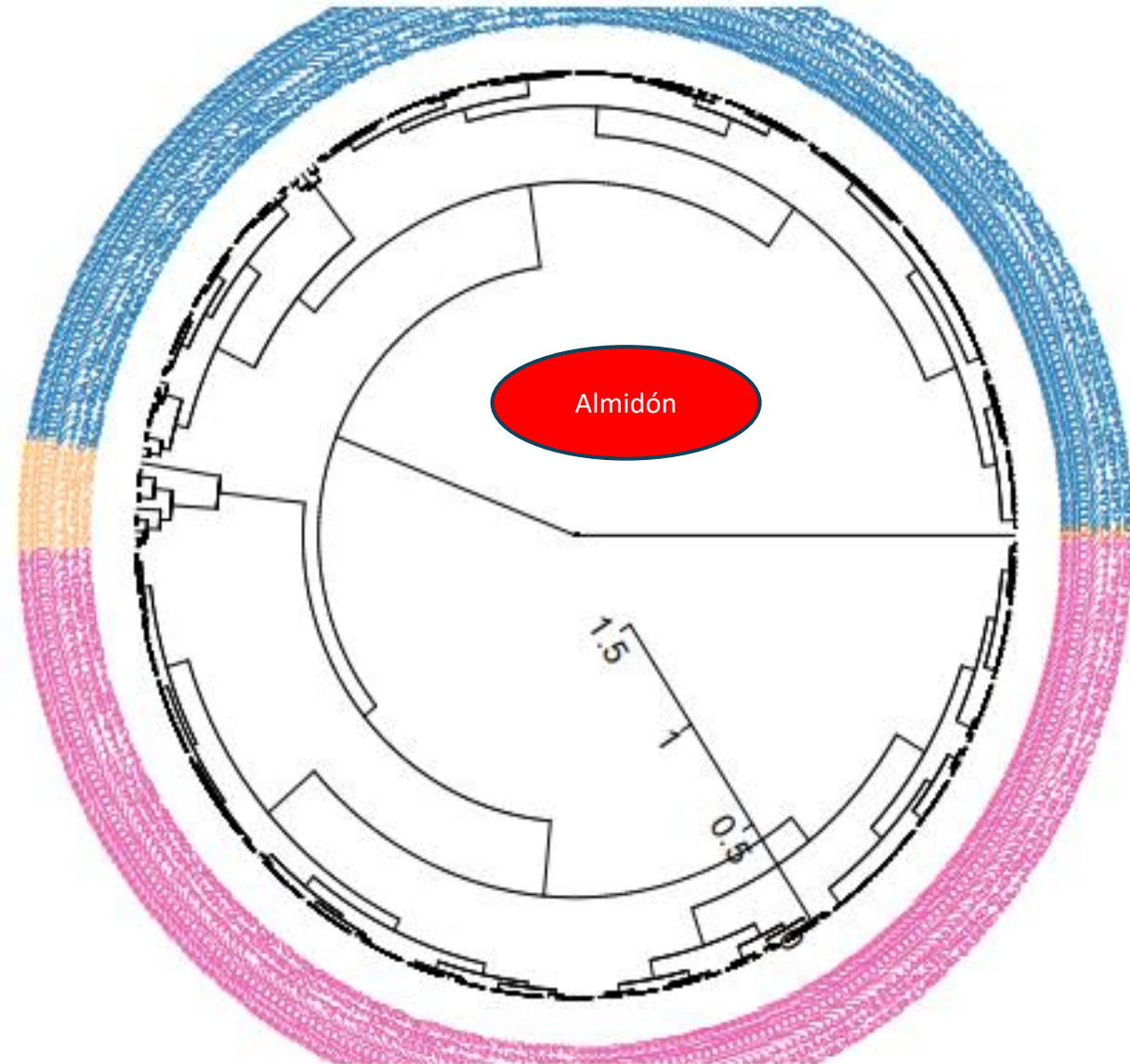
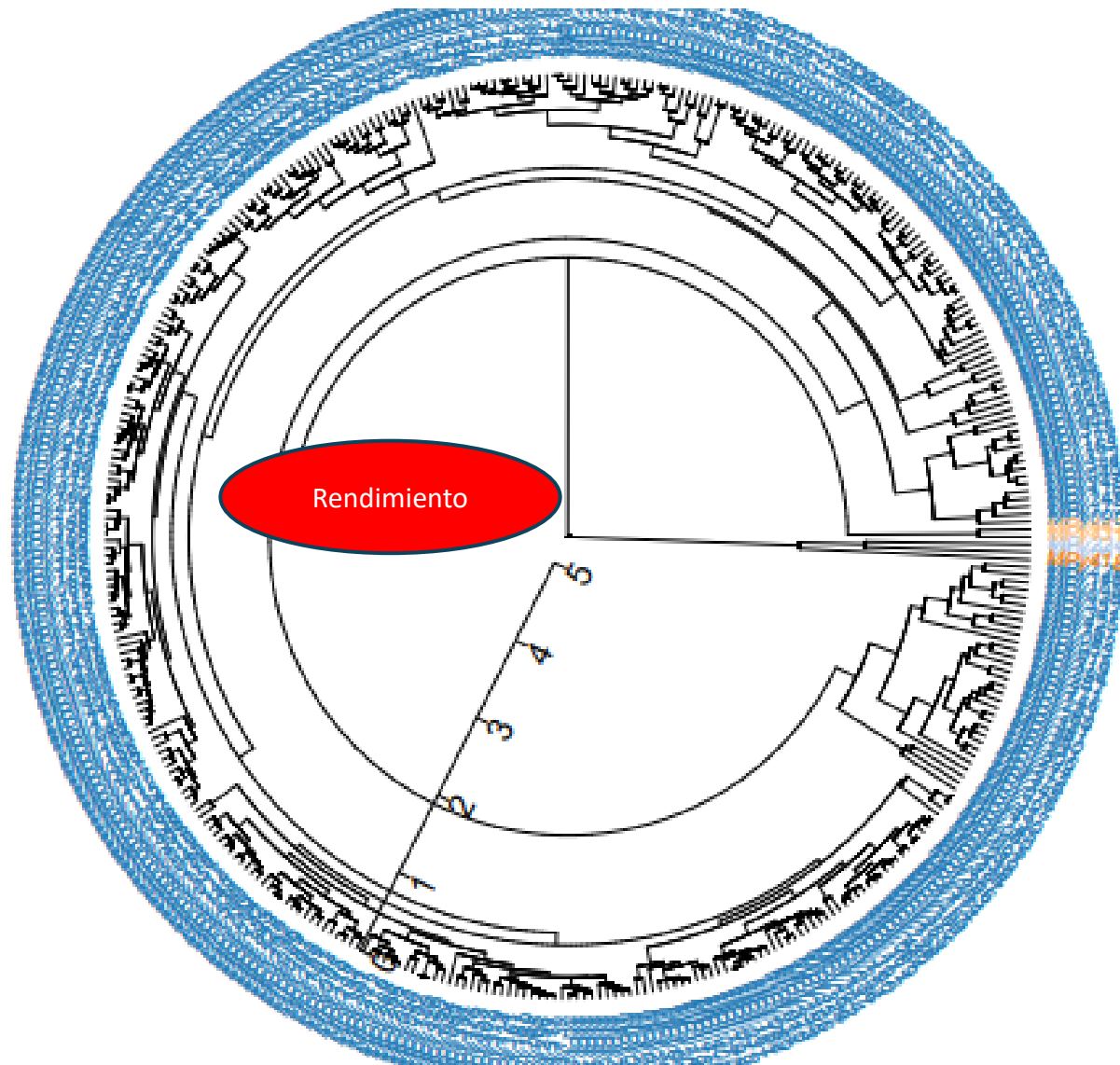
Análisis de Vacío



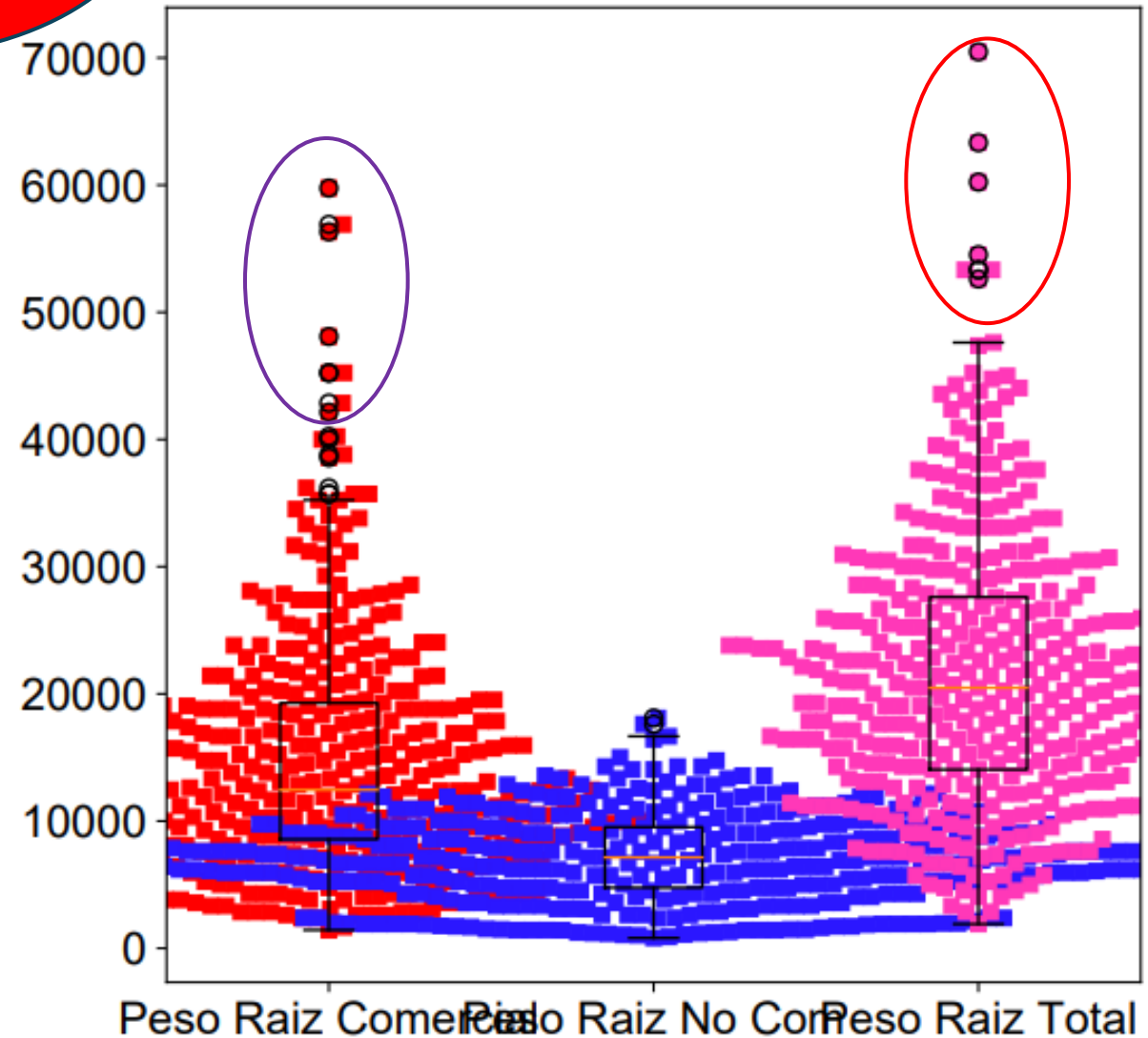
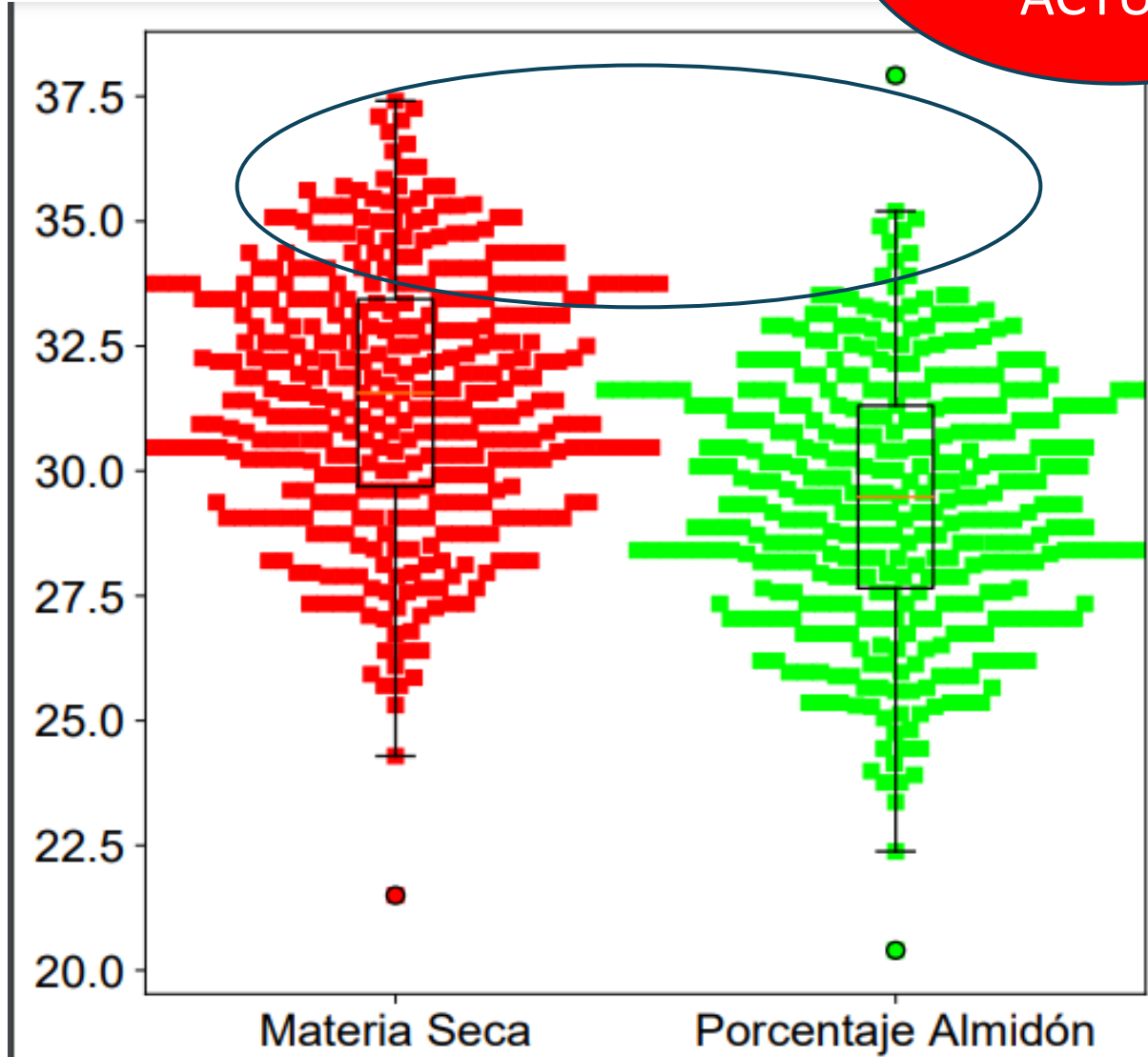


Diversidad total

Diversidad para Rendimiento y Almidón



USO
POTENCIAL
ACTUAL





CALIDAD DE RAMA
SEMILLA

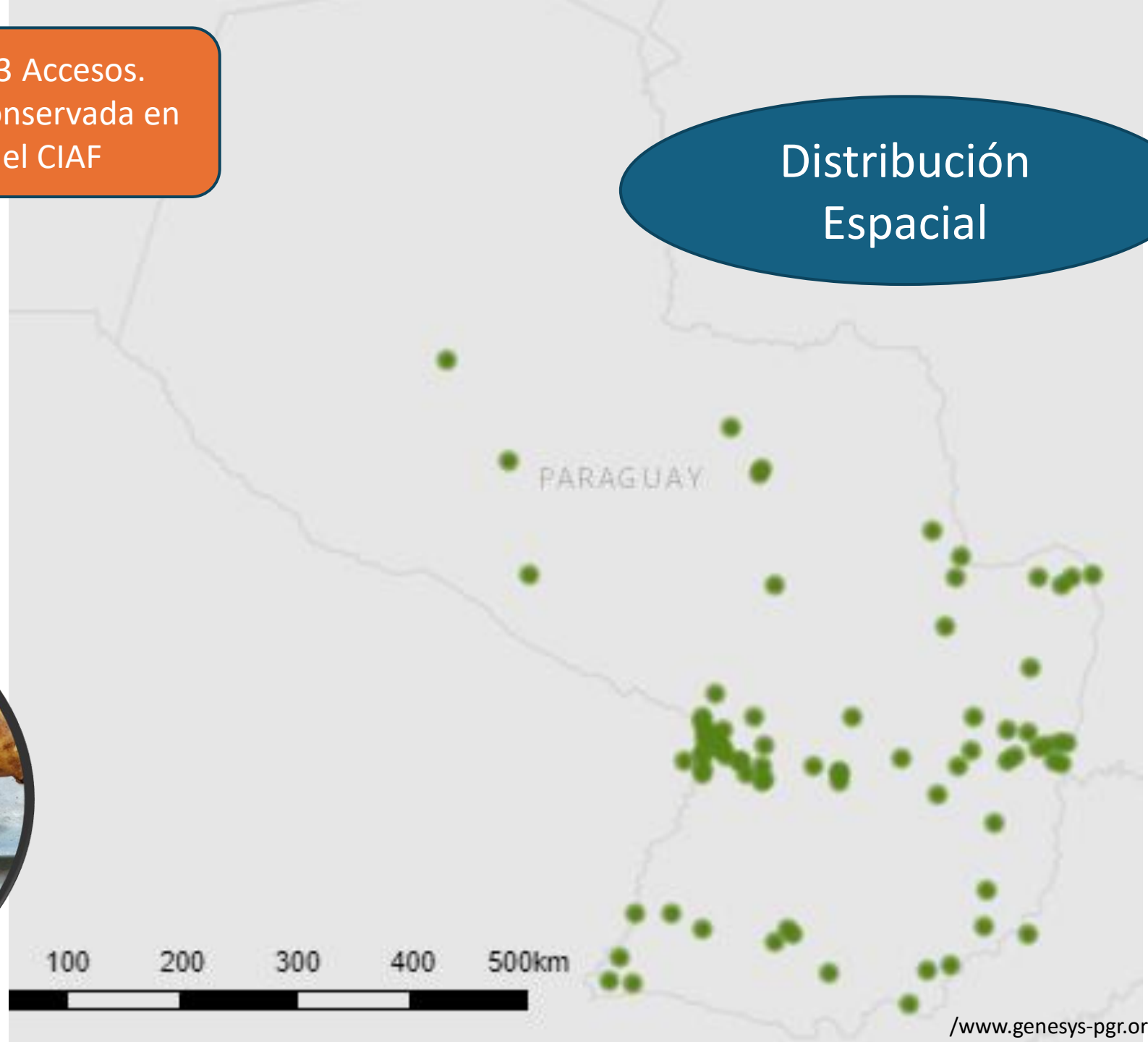


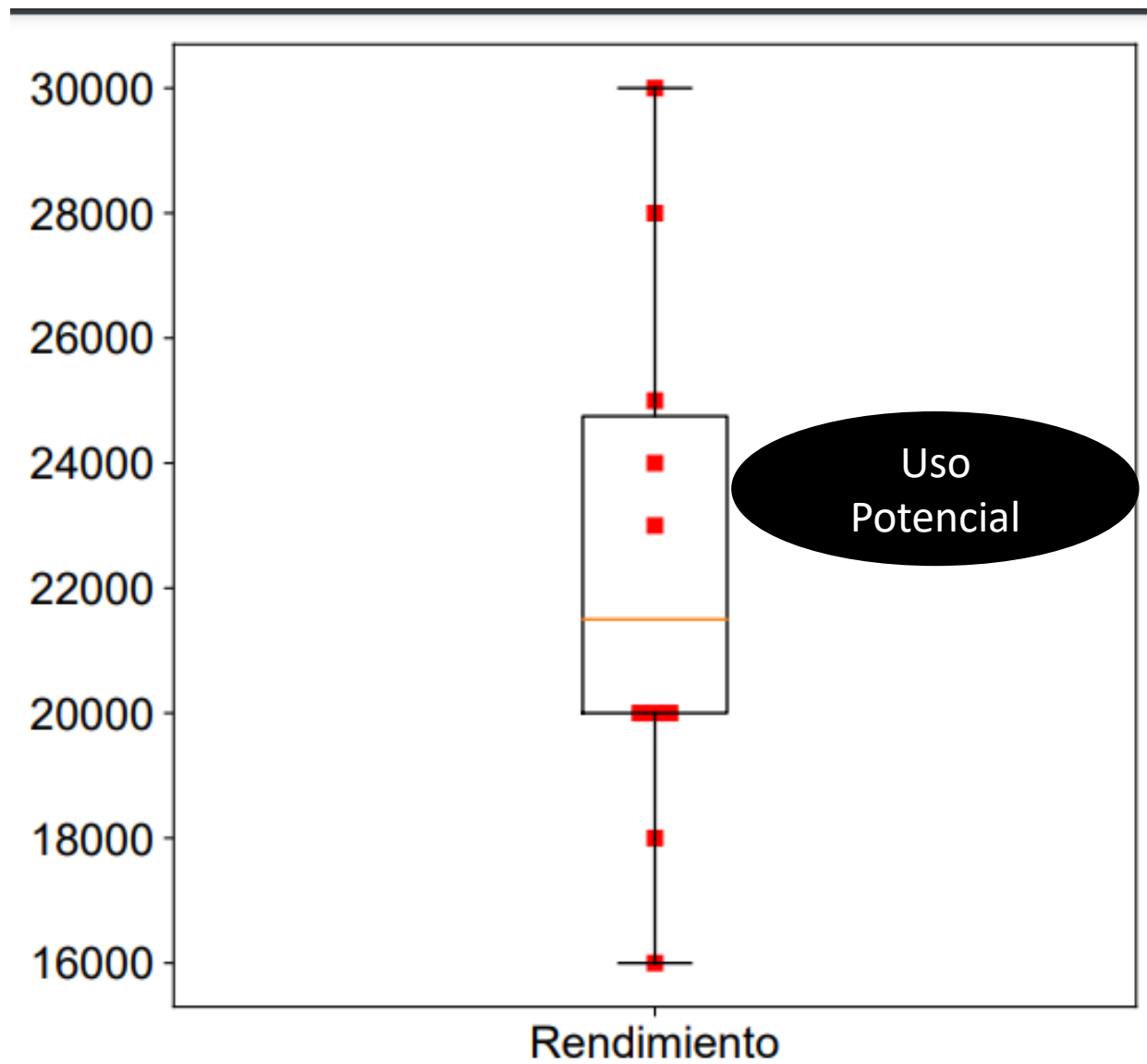
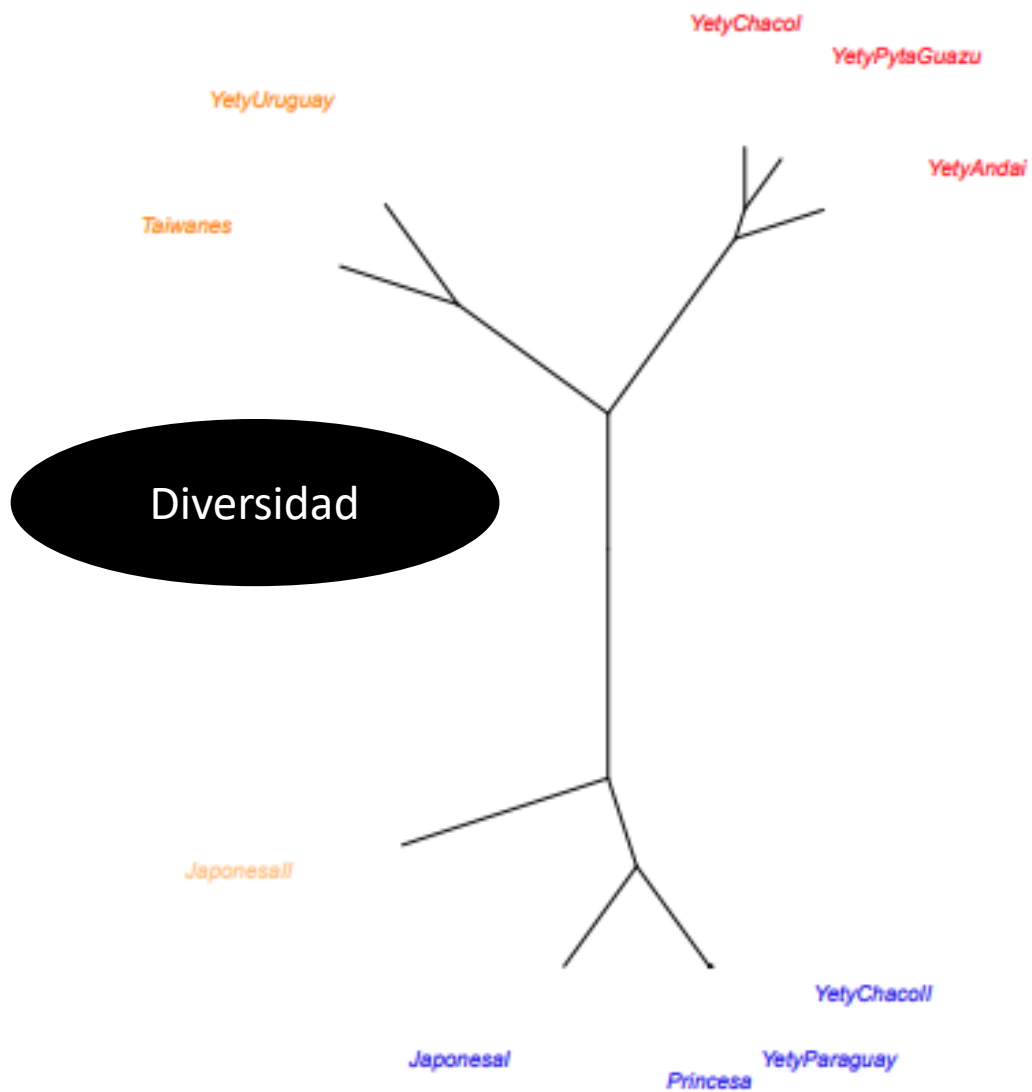


183 Accesos.
35 conservada en
el CIAF



Distribución Espacial

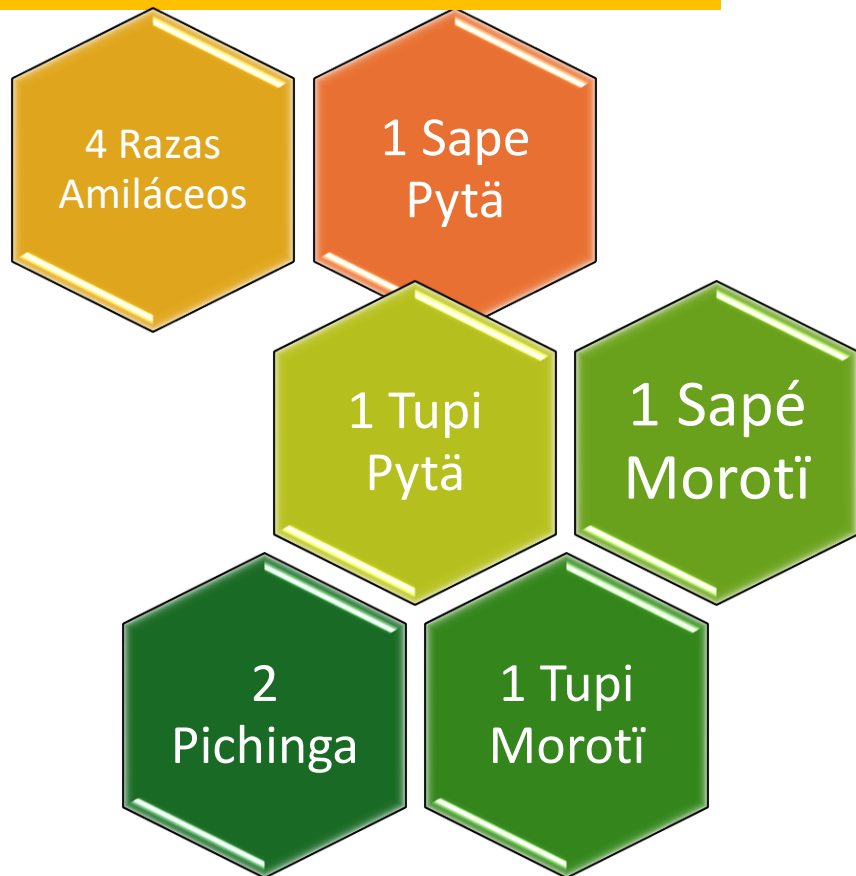




Aspectos de calidad



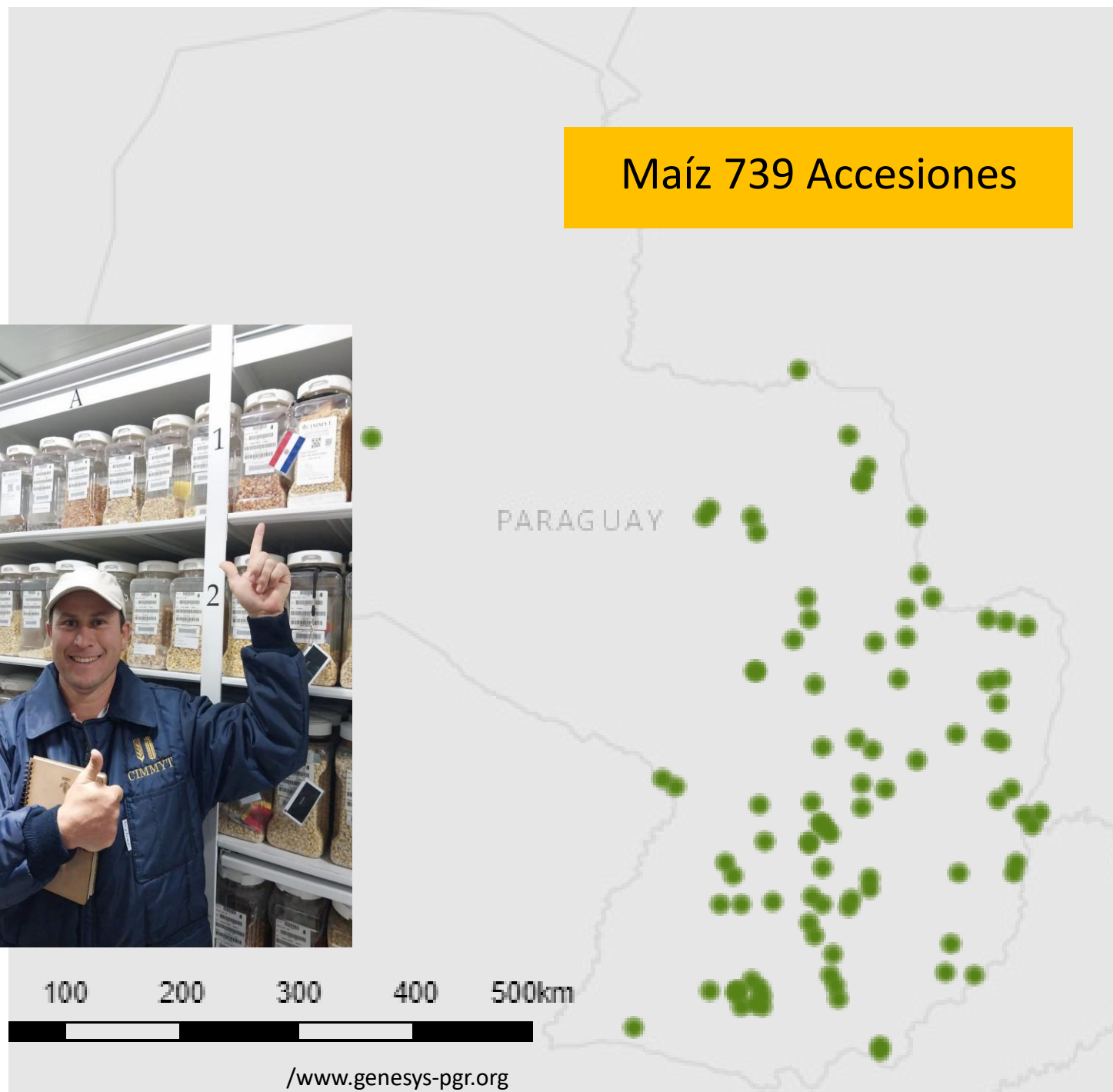
10 Razas



SALHUNA, W. S.; MACHADO, V. 1999

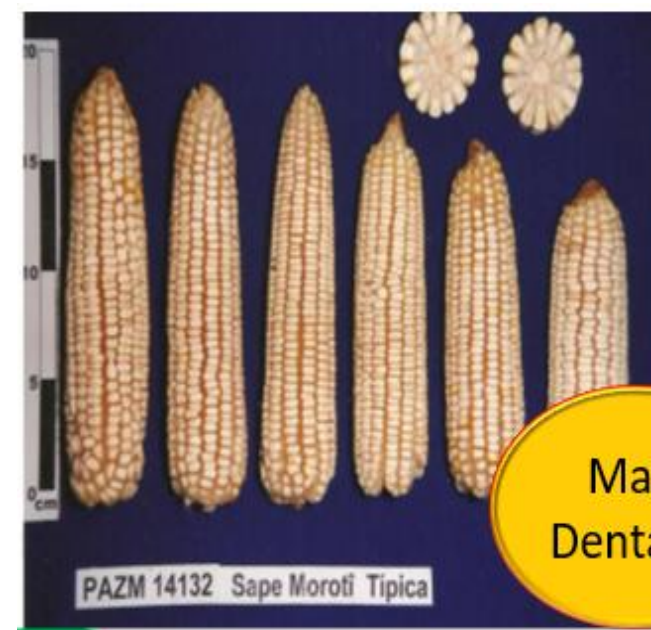


Maíz 739 Accesiones





Maíz Amiláceo
de Paraguay



Maíz
Dentado

Razas del
Paraguay



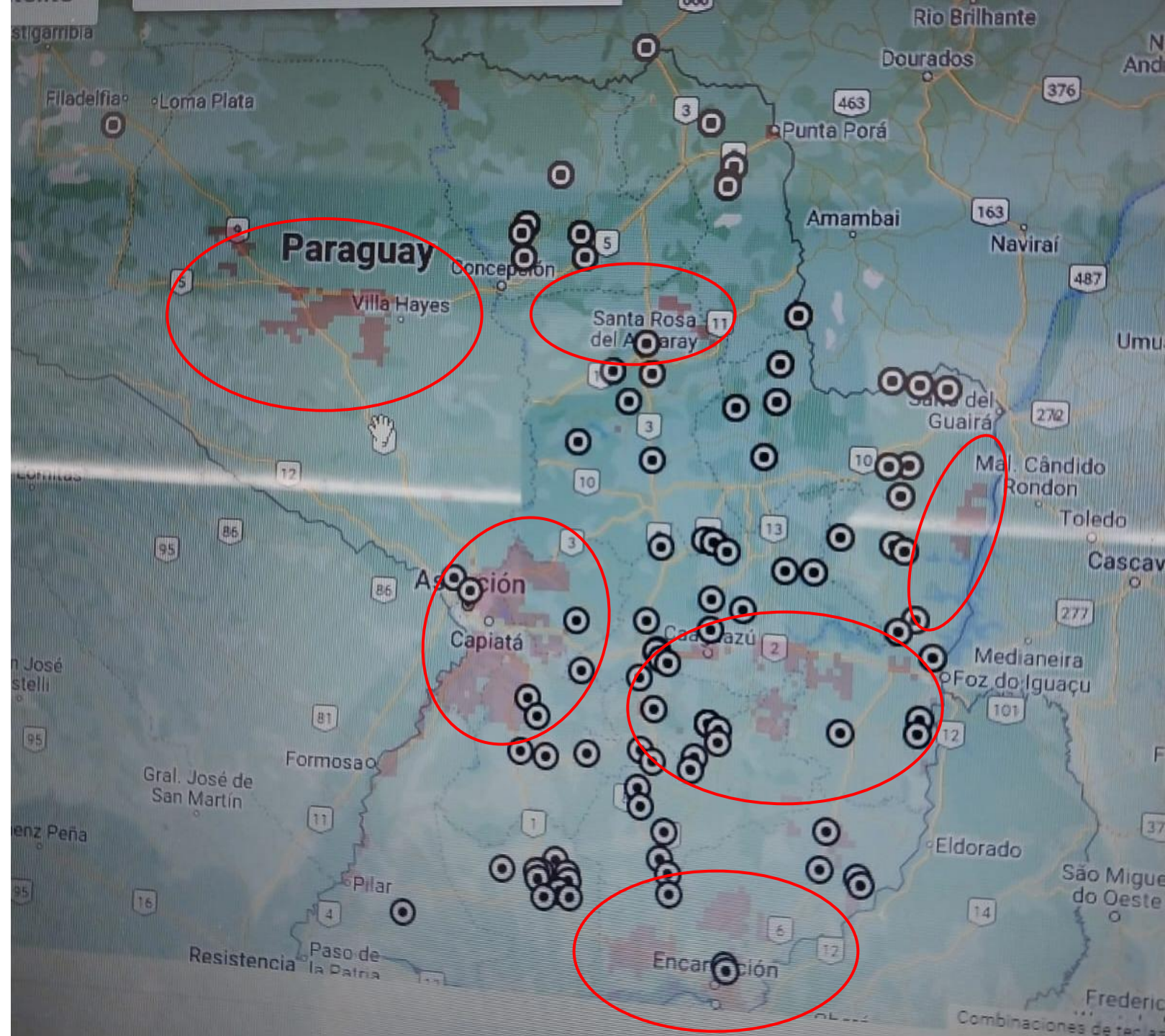
Maíz
Pichinga



Maíz
Duro o
Cristalino



Análisis de Vacío



PAZM 02035

Colecta: 17/06/98

Loc: Gral .E. Aquino

PAZM 02040

Colecta: 17/06/98

Loc: Gral .E. Aquino

PAZM 02087

Colecta: 17/06/98

Loc: Choré

PAZM 14084

Colecta: 15/07/87

Loc: Ype Jhu

PAZM 04008

Colecta: 01/01/54

Loc: Colonia Dc. Bottrel

PAZM 04022

Colecta: 12/03/98

Loc: Natalicio Talavera

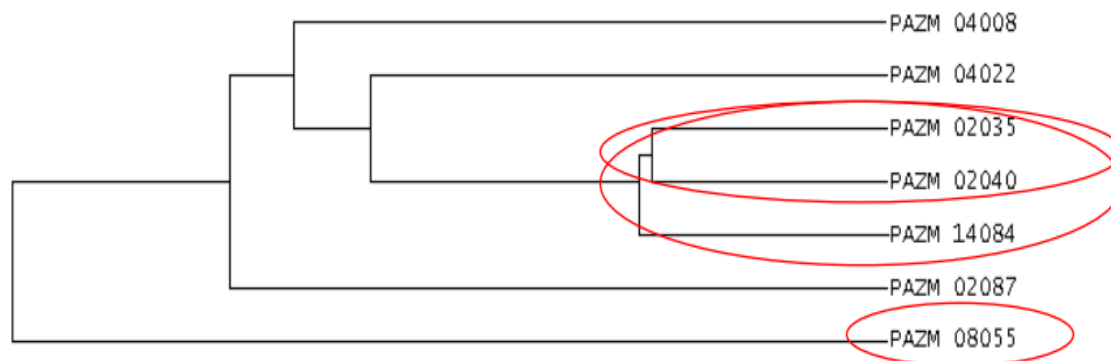
PAZM 08055

Colecta: 01/01/53

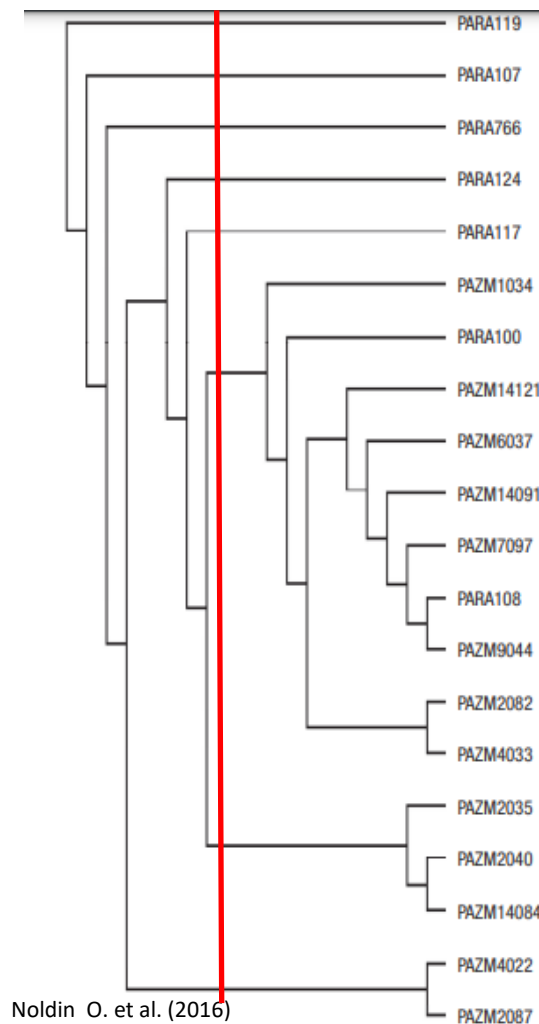
Loc: Sin dato

Accesión	PAZM 04008	PAZM 08055	PAZM 04022	PAZM 02035	PAZM 02040	PAZM 14084
PAZM 04008						
PAZM 08055	0,633					
PAZM 04022	0,346	0,357				
PAZM 02035	0,196	0,377	0,256			
PAZM 02040	0,315	0,365	0,251	0,109		
PAZM 14084	0,286	0,332	0,246	0,109	0,126	
PAZM 02087	0,384	0,496	0,385	0,251	0,312	0,243

Dendograma (UPGMA)



Noldin O. (sf)



Noldin O. et al. (2016)

Figure 1. Cluster analysis of 20 maize accessions of the race Avati Moroti from Paraguay using the UPGMA method and the



Buen contenido de proteína,
especialmente destinado para
el consumo humano como
locro o locrillo.

- no menos de 3,0 t/ha, en
condiciones de baja fertilidad, y
superando **7,0 t/ha**
- 945** unidades de calor.



75-82% de granos

ALTURA: 275 cm

Ind Altura: 0,55

Potencial: 5 t/ha

Ciclo tardío.



-Ciclo Normal

ASI: 1 días

-Grano duro

-Potencial de 6 t/ha

-Prolificidad de 1,3t/ha

-**945** unidades de calor.



-Ciclo medio/tardío

-ASI: 3 días

-Potencial 5 t/ha

- Prolificidad 1,3

GUARANI V 332



Ciclo precoz

-Altura de 173 cm

-Semidentado

Potencial de 5 t/ha

-ASI 2 Días



-Precoz

Altura de 250 cm

86% de granos

68% de Harina

Potencial de 5200 kg/ha

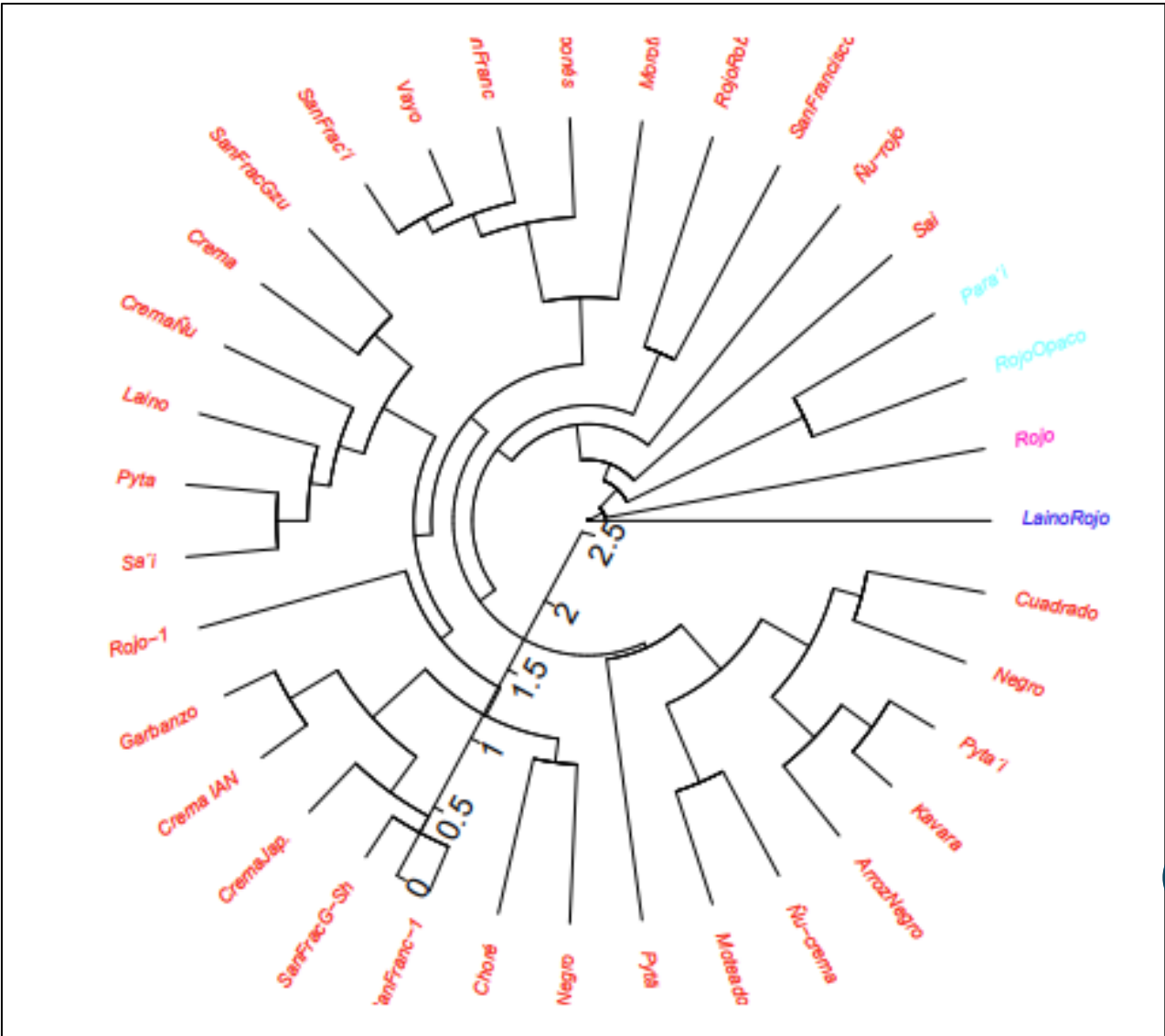
-Ind Altura 0,51

POROTO

Vigna unguiculada



Conservada con
121 Accesos



Contribución relativa de los caracteres para la divergencia - SINGH(1981)

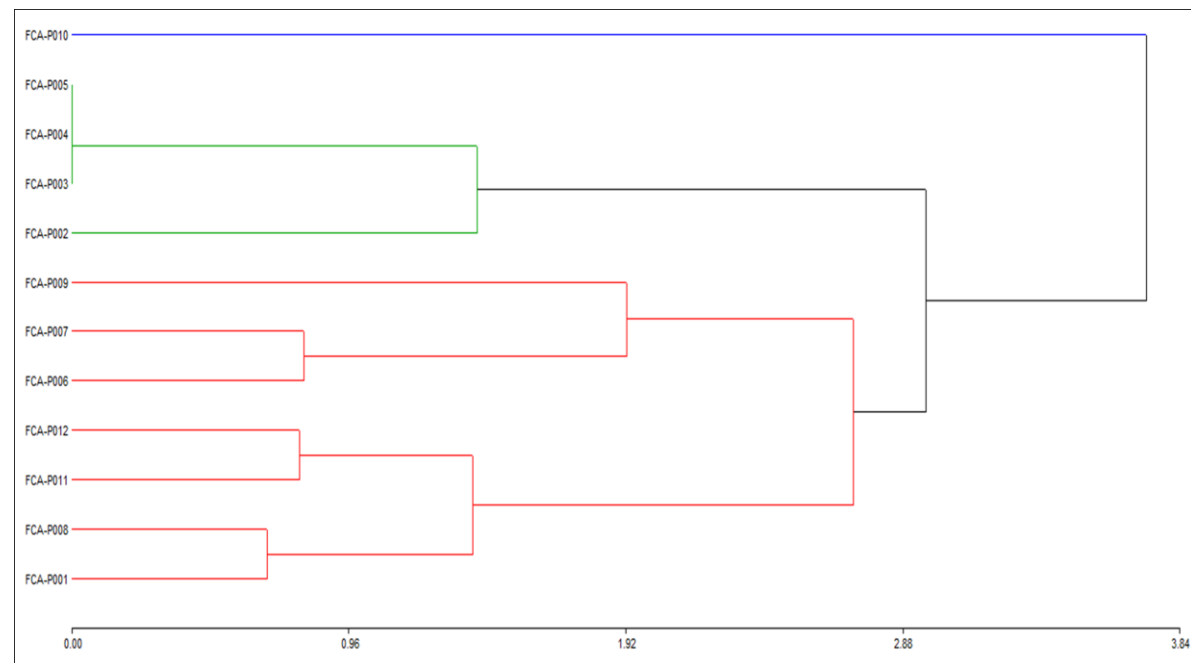
Variables	S _j (1)	VALOR(%)
Rendimiento	2148,956859	43,3688
Altura Planta	88,051856	1,777
Nvainas	50,494322	1,019
Granos xVainas	804,244024	16,2307
P1000g	1863,33301	37,6045

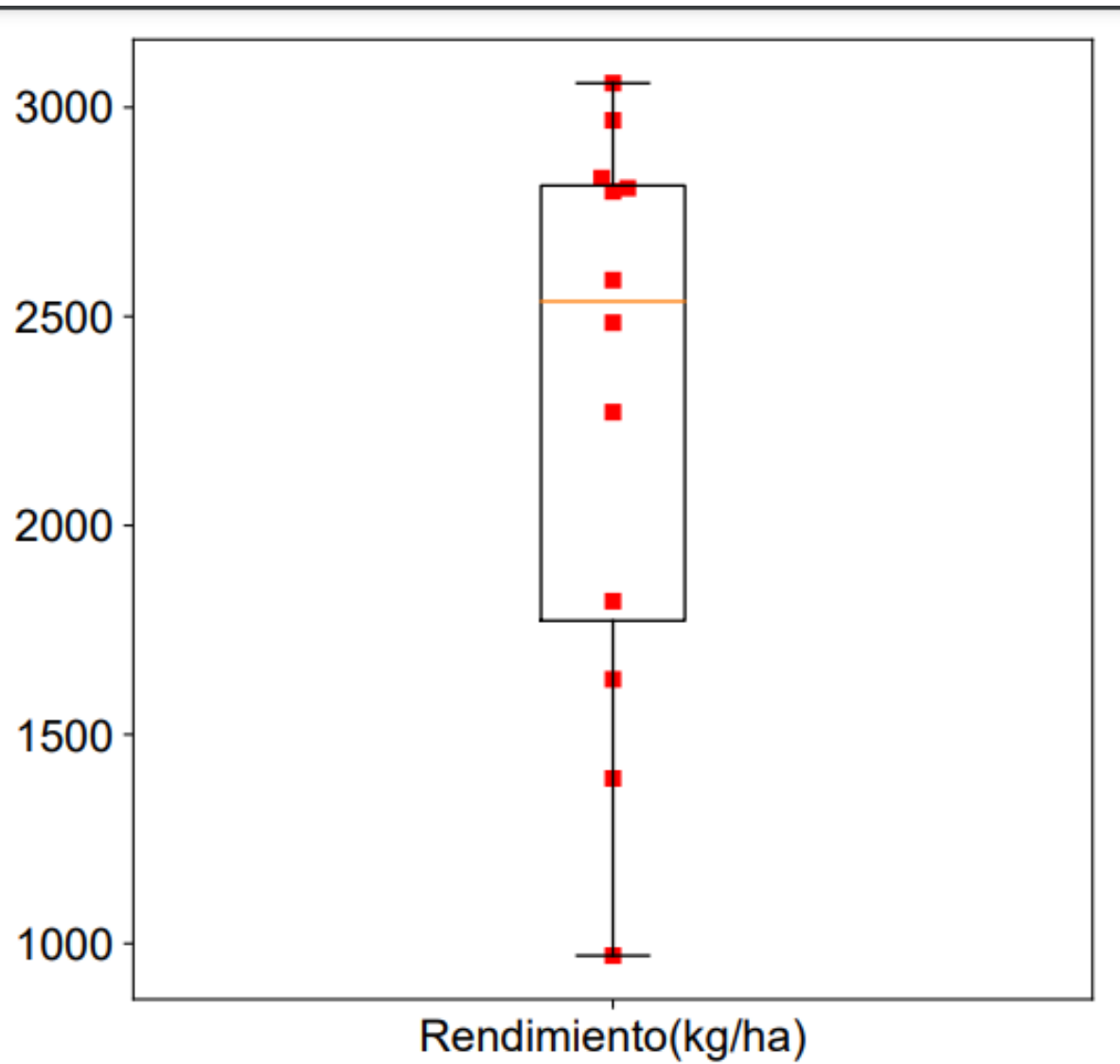
Análisis de Agrupamiento



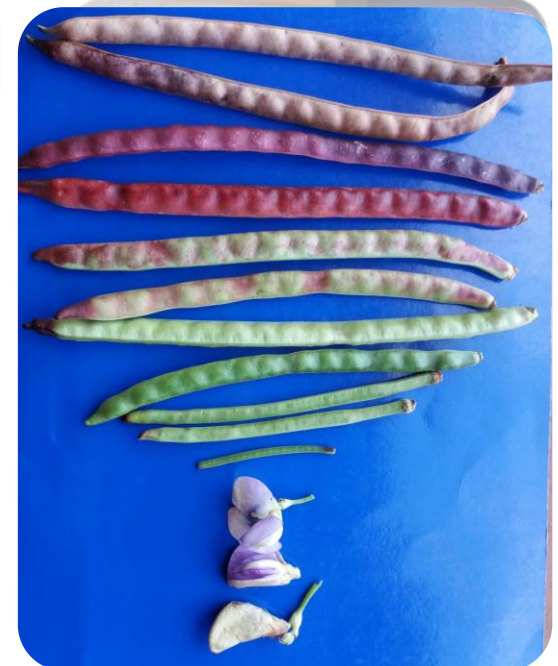
Contribución relativa de los caracteres para divergencia - SINGH(1981)		
Variables	S.j(1)	Valor (%)
Longitud de Semillas	17.9675	6.4455
Anchura de semillas	14.2292	5.1045
Grosor de Semillas	67.3328	24.1545
Peso de 100 Semillas	179.2299	64.2956
Total	278.7594	

Euclidea												
	FCA-P001	FCA-P002	FCA-P003	FCA-P004	FCA-P005	FCA-P006	FCA-P007	FCA-P008	FCA-P009	FCA-P010	FCA-P011	FCA-P012
FCA-P001	0.00											
FCA-P002	2.27	0.00										
FCA-P003	2.62	1.40	0.00									
FCA-P004	2.62	1.40	0.00	0.00								
FCA-P005	2.62	1.40	0.00	0.00	0.00							
FCA-P006	1.89	2.60	2.43	2.43	2.43	0.00						
FCA-P007	1.53	2.07	2.33	2.33	2.33	0.80	0.00					
FCA-P008	0.68	2.88	3.18	3.18	3.18	2.06	1.86	0.00				
FCA-P009	2.79	4.13	4.20	4.20	4.20	1.78	2.06	2.57	0.00			
FCA-P010	3.41	3.83	4.30	4.30	4.30	3.24	3.15	3.23	3.46	0.00		
FCA-P011	1.12	2.81	3.27	3.27	3.27	2.99	2.63	1.18	3.72	3.86	0.00	
FCA-P012	1.56	2.74	3.08	3.08	3.08	3.27	2.97	1.69	4.22	3.90	0.79	0.00





Uso potencial
Actual



Phaseolus vulgaris



HABILLA



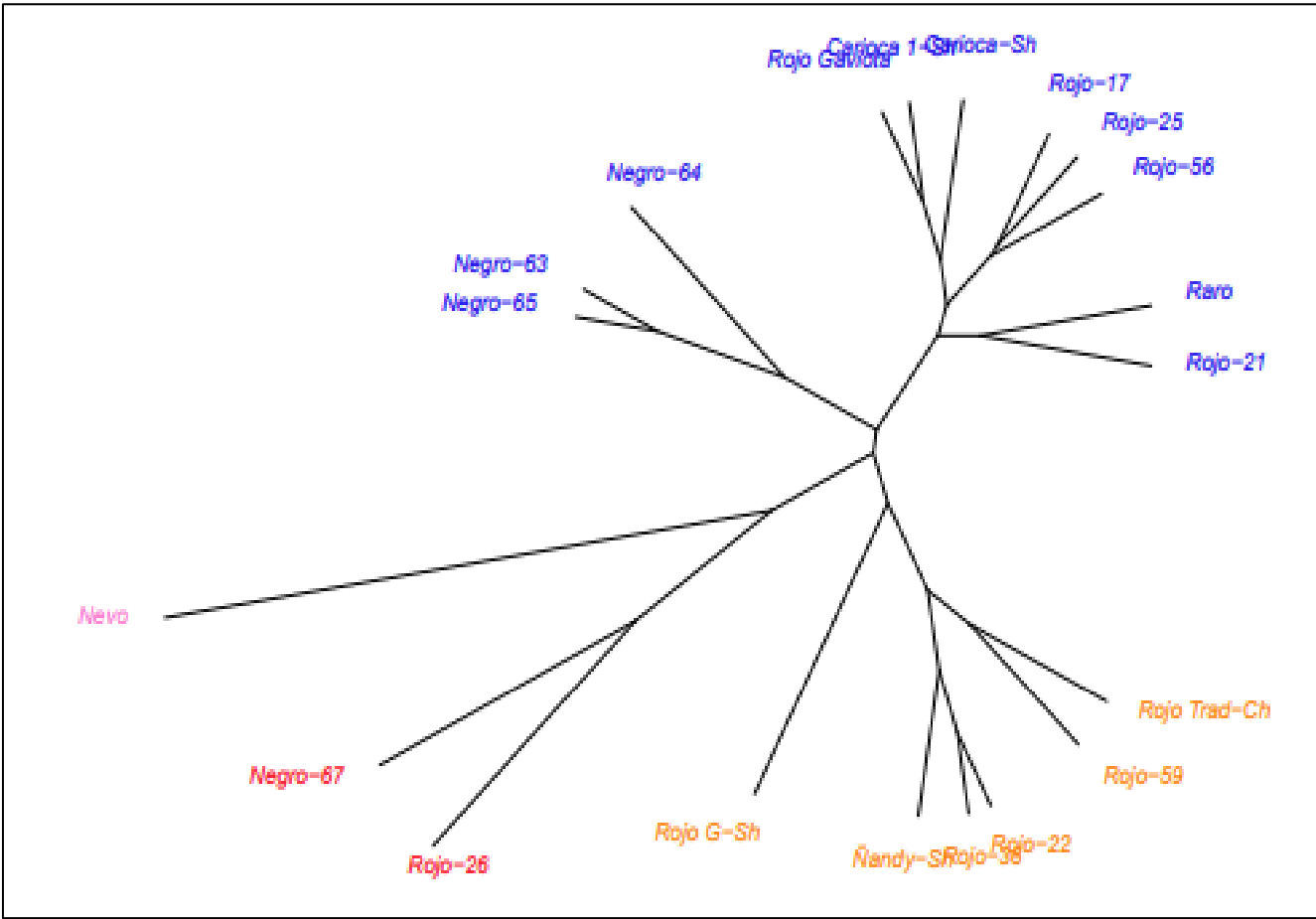
Tabla 1: Mayores y menores distacias entre Accesos de Habilla por la distancia Euclidiana media. Paraguay. 2022.

Genotipos	Mayores distancia		Menores Distancia	
	Genotipos	Valor	Genotipos	Valor
PRY H 0001	PRY H 0014	0,740	PRY H 0009	0,206
PRY H 0002	PRY H 0005	0,599	PRY H 0004	0,132
PRY H 0003	PRY H 0005	0,477	PRY H 0018	0,236
PRY H 0004	PRY H 0005	0,601	PRY H 0002	0,132
PRY H 0005	PRY H 0014	0,697	PRY H 0008	0,337
PRY H 0006	PRY H 0014	0,500	PRY H 0008	0,154
PRY H 0007	PRY H 0014	0,509	PRY H 0012	0,081
PRY H 0008	PRY H 0014	0,550	PRY H 0011	0,134
PRY H 0009	PRY H 0014	0,604	PRY H 0017	0,108
PRY H 0010	PRY H 0014	0,555	PRY H 0011	0,152
PRY H 0011	PRY H 0014	0,518	PRY H 0008	0,134
PRY H 0012	PRY H 0001	0,557	PRY H 0010	0,180
PRY H 0013	PRY H 0005	0,574	PRY H 0007	0,209
PRY H 0014	PRY H 0001	0,740	PRY H 0004	0,326
PRY H 0015	PRY H 0005	0,484	PRY H 0018	0,161
PRY H 0016	PRY H 0014	0,468	PRY H 0007	0,142
PRY H 0017	PRY H 0014	0,569	PRY H 0009	0,109
PRY H 0018	PRY H 0013	0,480	PRY H 0015	0,161
PRY H 0019	PRY H 0005	0,640	PRY H 0013	0,237
PRY H 0020	PRY H 0014	0,493	PRY H 0017	0,194

Maximo: 0,740 Accesos 1 y 14

Minimo: 0,108 Accesos 9 y 17

Distancia Genética en Habilla



Morphological Diversity of Common Bean (*Phaseolus vulgaris* L.) Germplasm Available at the Research Center for Family Agriculture of Choré, San Pedro, Paraguay

Table 3. Clustering of common bean accessions using the Tocher optimization method. Choré, Paraguay, 2024.

Groups	Accessions			
< 1 >	PRYH-0009	PRYH-0017	PRYH-0008	PRYH-0011
	PRYH-0006	PRYH-0016	PRYH-0007	PRYH-0020
	PRYH-0010	PRYH-0012	PRYH-0013	
< 2 >	PRYH-0002	PRYH-0004	PRYH-0003	PRYH-0015
	PRYH-0018			
< 3 >	PRYH-0014			
< 4 >	PRYH-0019			
< 5 >	PRYH-0001			
< 6 >	PRYH-0005			

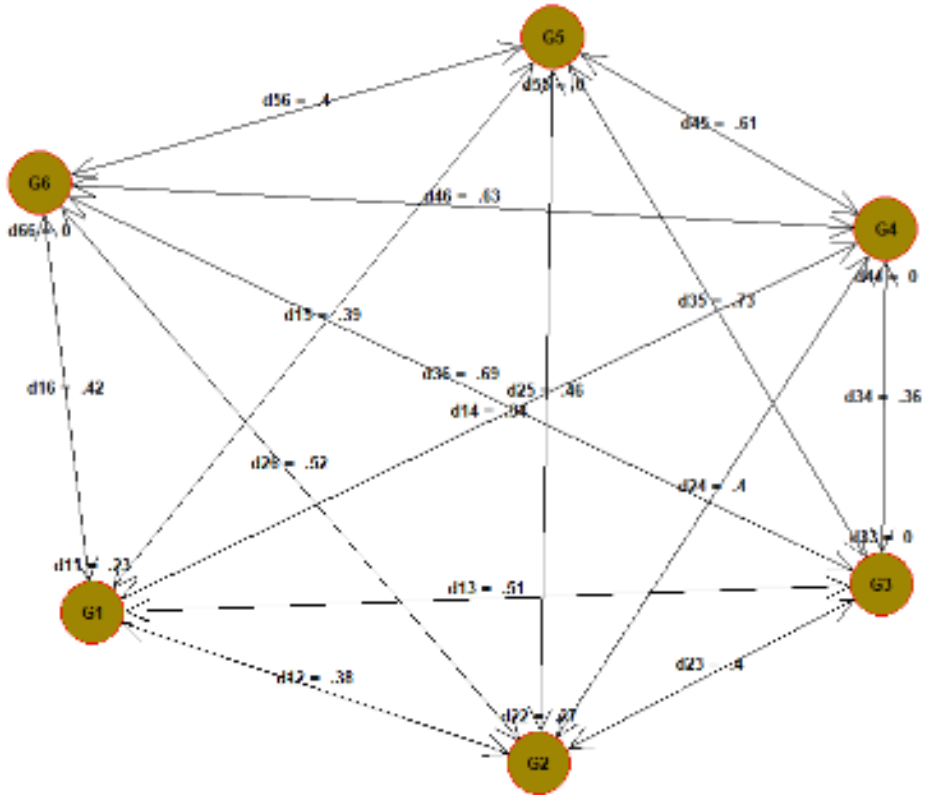
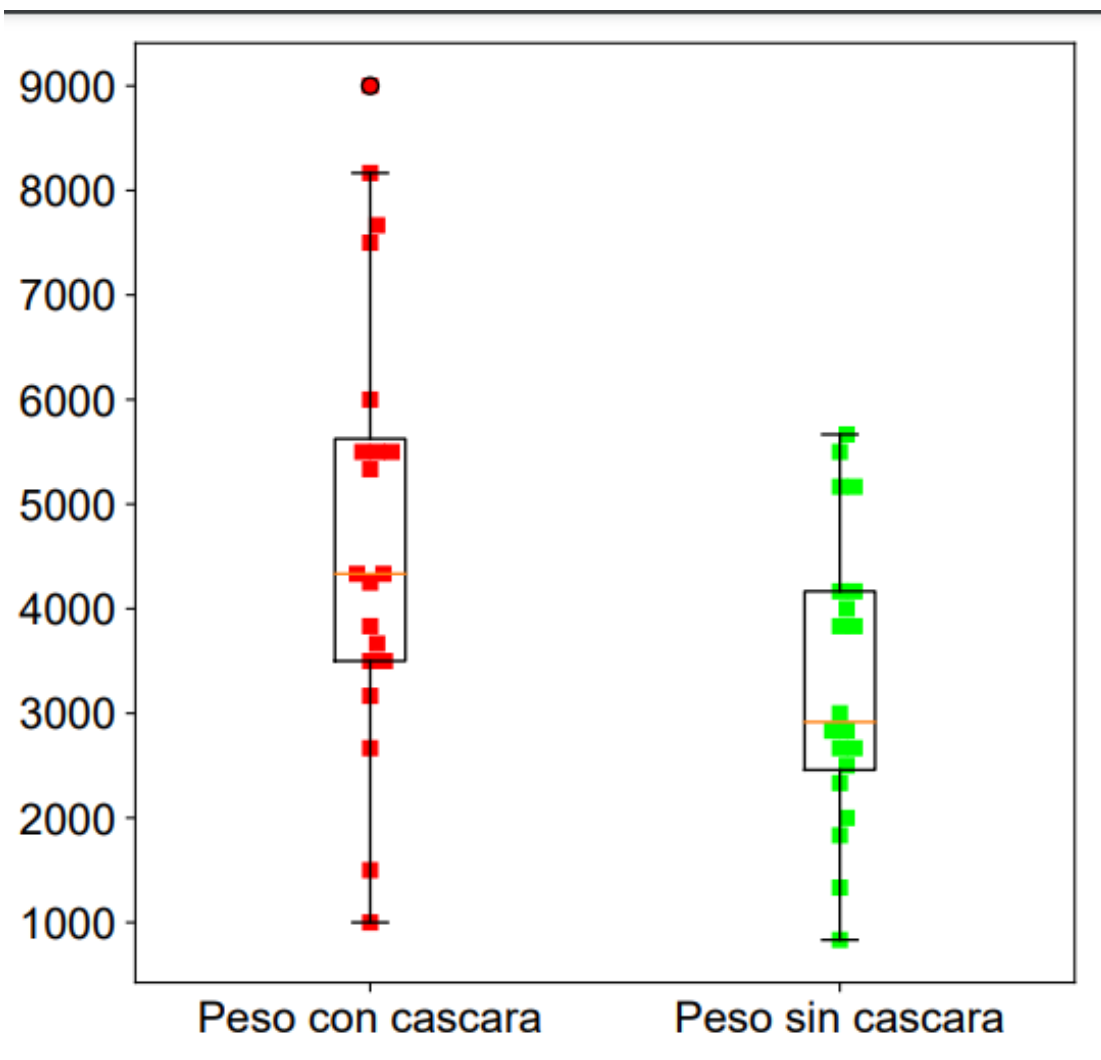
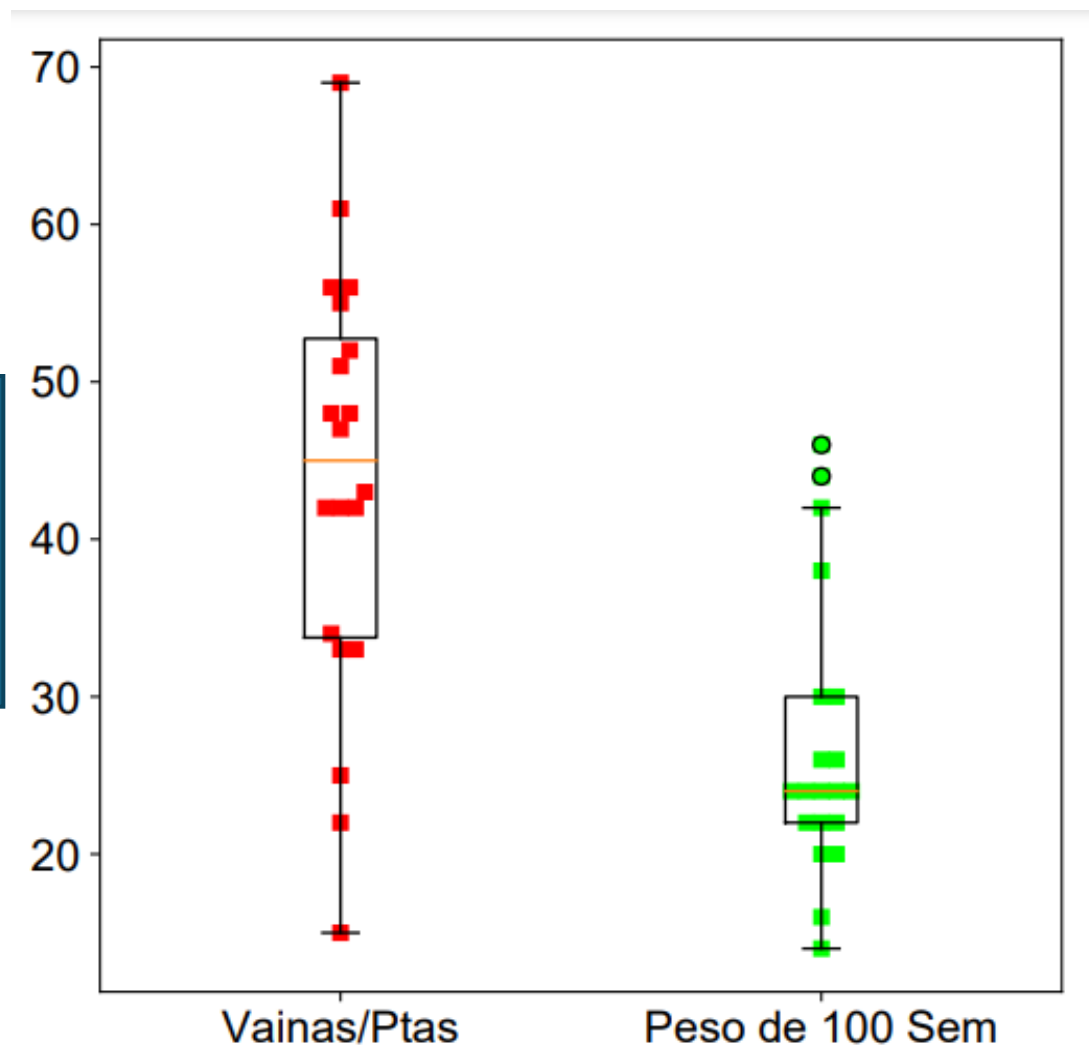


Figure 1. Genetic distances between groups formed by the Tocher method with common bean accessions. Choré, Paraguay, 2024.



Uso
Potencial
Actual

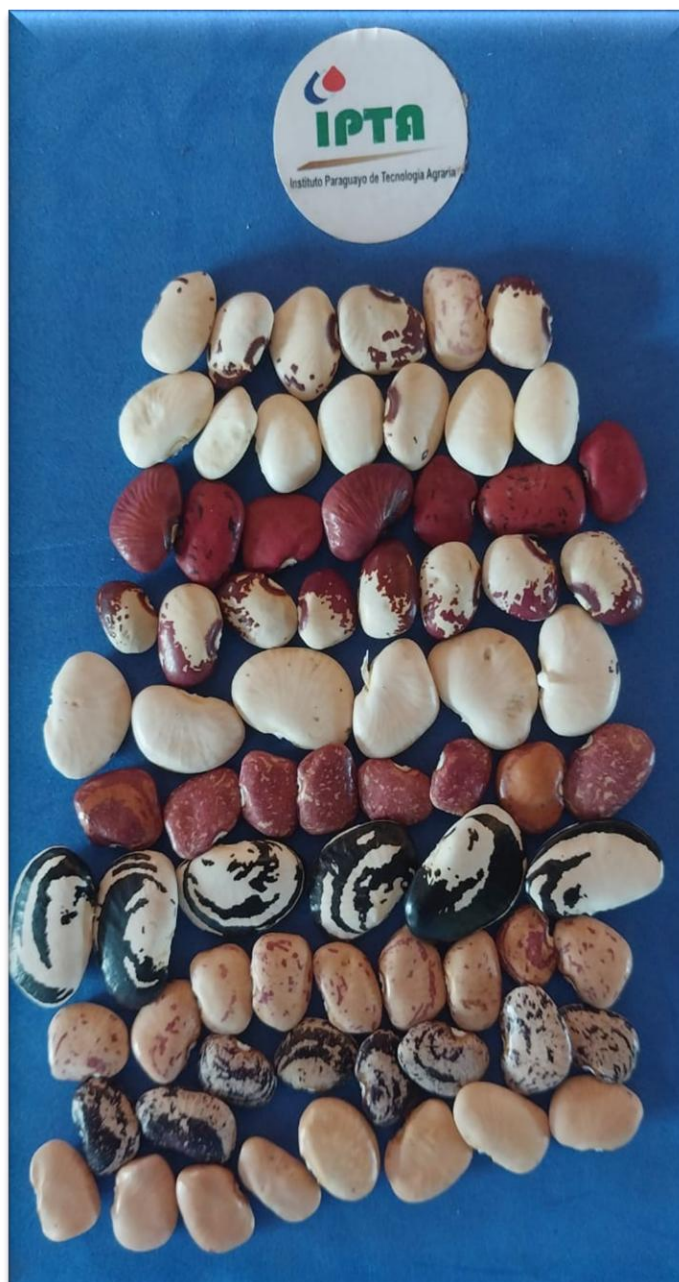
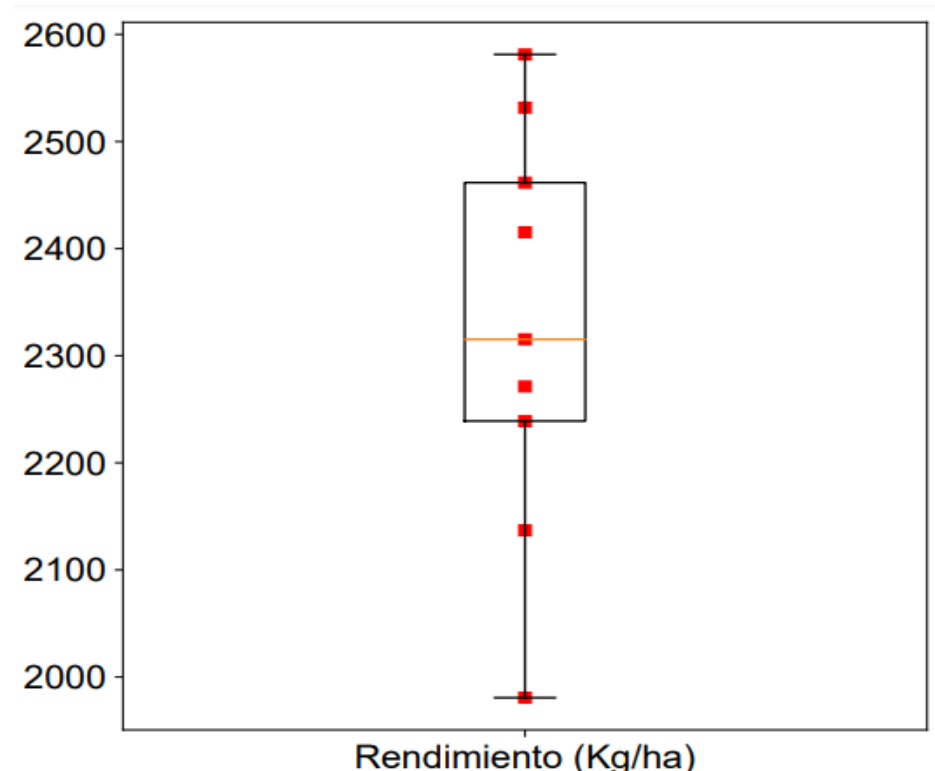
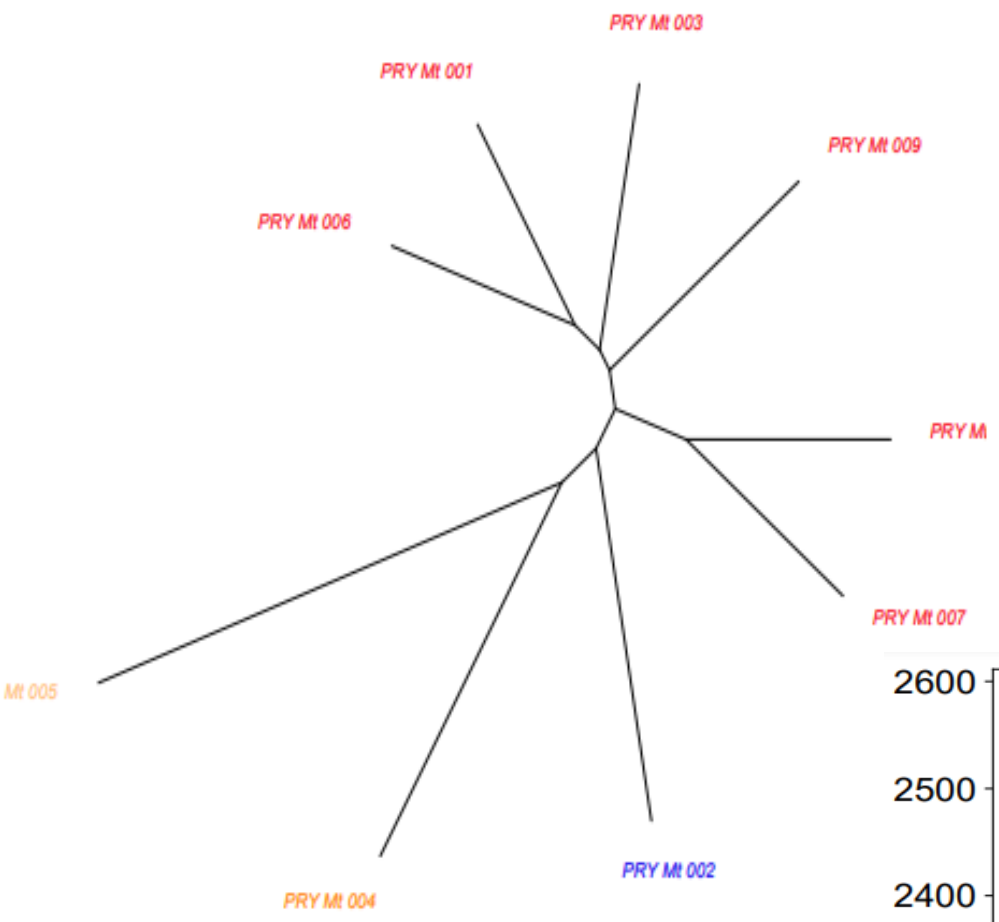


MANTECA

Phaseolus lunatus



Diversidad y Uso Potencial

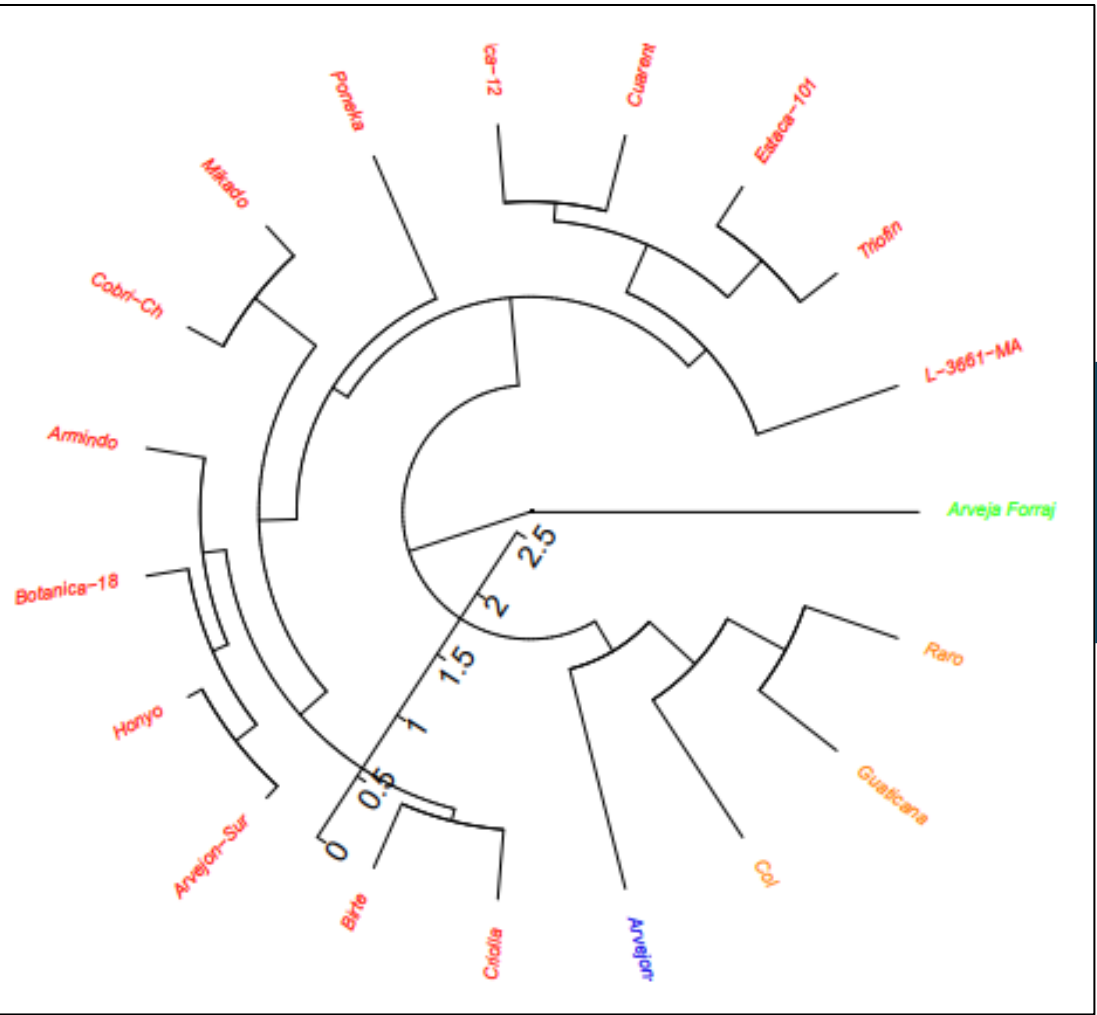


ARVEJA

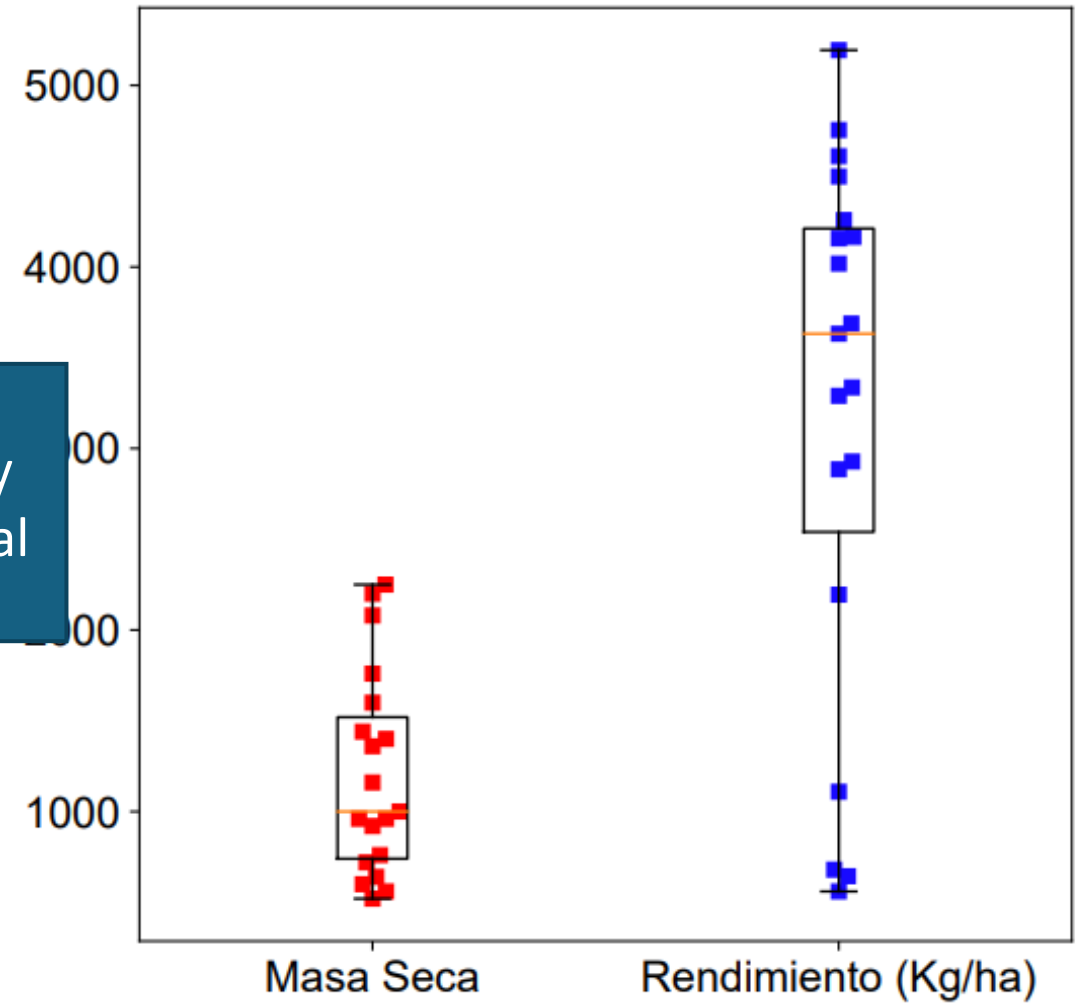
Pisum sativum

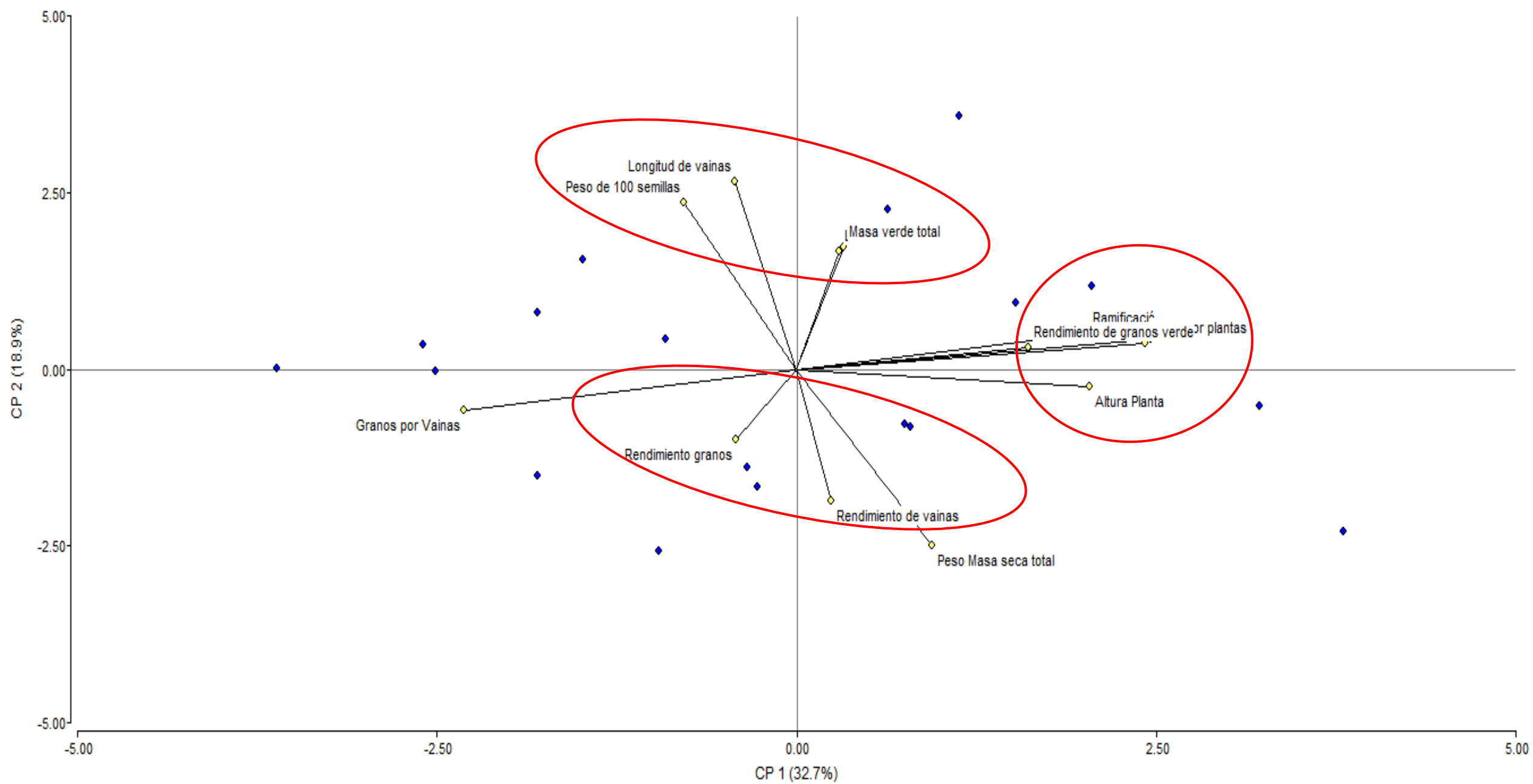
Conservados 25
Accesos



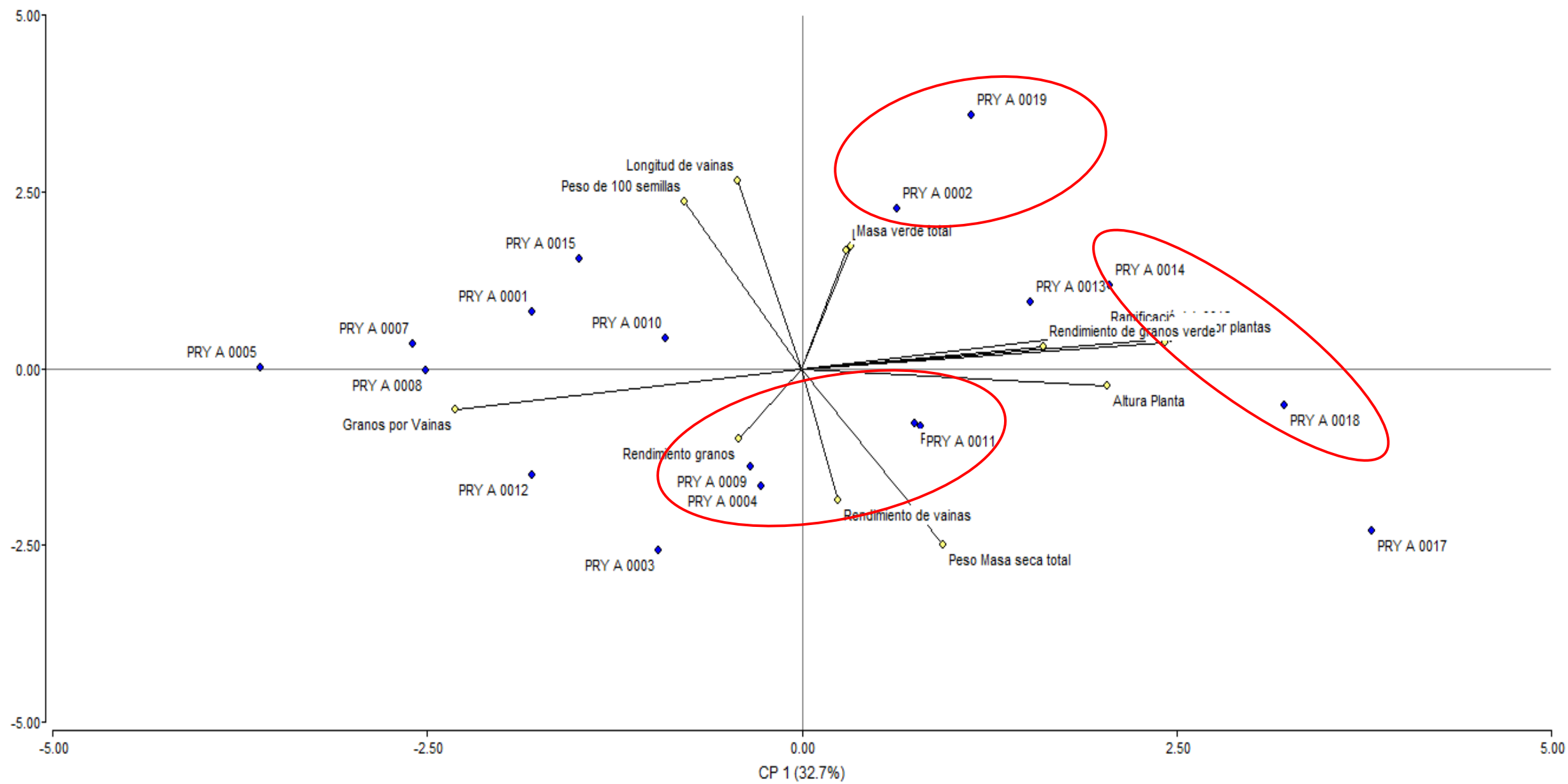


Diversidad y
Uso Potencial

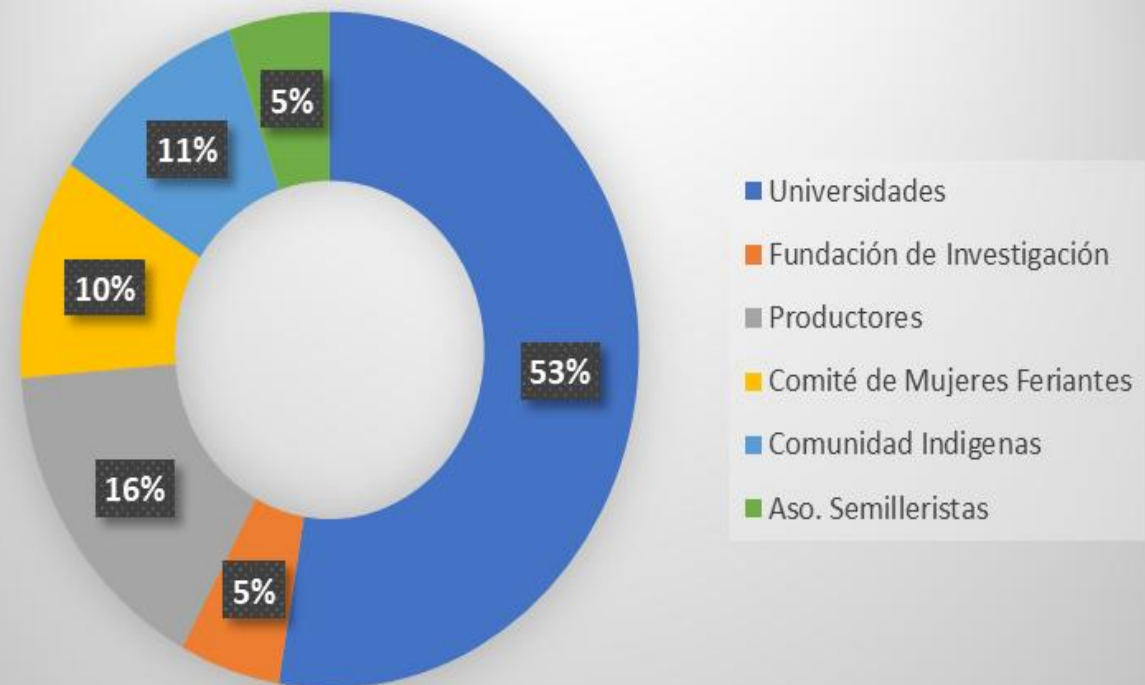
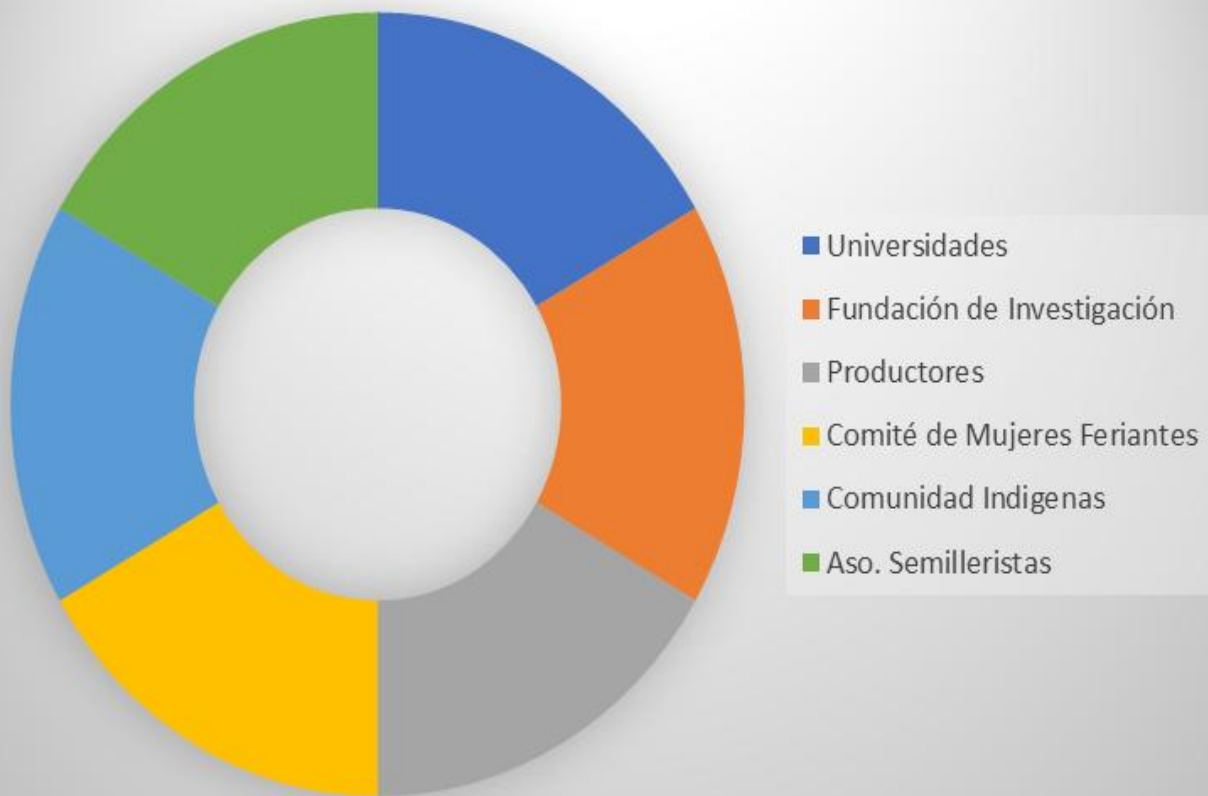




CP 2 (18.9%)



CLIENTES





Conservación en
Paraguay



GRACIAS

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www.ipta.gov.py



6 y 7 Agosto 2025