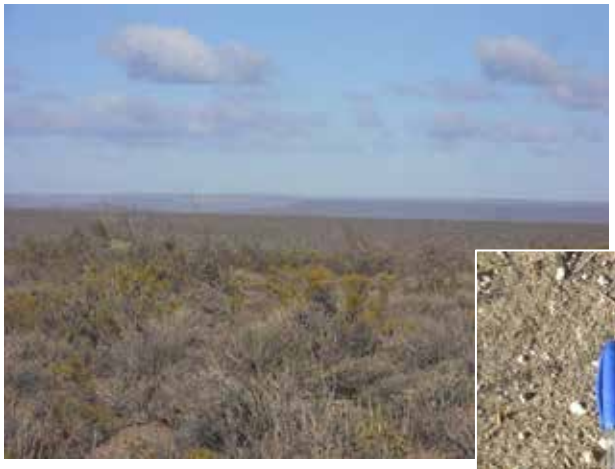
Client. Vientos Neuquinos I S.A.

Location. Bajada Colorada - Neuquén Province

Date: March 21st , 2014

Report. LBB PEVN 001-14

Biota Base Line Wind Energy Park Vientos Neuquinos I



Scudelati & Asociados

Asesores

INDEX

1 INTRODUCED AND NATIVE FLORA

1.1 *LOCATION OF THE MONITORING SITES*

In the following table are indicated the monitoring points selected for the present field study.

MONITORING POINT	Coordinates	
	LATITUD	LONGITUD
FL 1	39°43'36.47"S	69°49'3.05"W
FL 2	39°44'10.62"S	69°49'25.79"W
FL 3	39°44'28.88"S	69°50'6.82"W
FL 4	39°44'23.39"S	69°48'21.11"W
FL 5	39°45'2.89"S	69°47'54.67"W
FL 6	39°44'25.68"S	69°46'12.66"W
FL 7	39°44'3.81"S	69°45'19.00"W
FL 8	39°44'45.99"S	69°45'14.31"W
FL 9	39°45'26.01"S	69°45'30.95"W
FL 10	39°45'19.98"S	69°43'57.63"W
FL 11	39°46'8.05"S	69°44'35.57"W
FL 12	39°46'11.58"S	69°43'30.74"W
FL 13	39°44'37.13"S	69°44'44.76"W

Table 01. LOCATION OF THE MONITORING SITES

Picture 01 LOCATION OF THE MONITORING SITES

1.2 *INVESTIGATION METHODOLOGY*

During the field study there were established 13 monitoring sites representative of the area of study.

Sampling sectors were delimited in lots of 4 meters by 4 meters (16m2 area)

1.3 *ANALYSIS METHODOLOGY*

On each lot different indicators were established to get information about:

- **Coverage** Coverage Percentage Indicator
- **Diversity** Specific richness, Simpsoon Index, Shannon-Wiener Index and Diversity Numbers by Hill.
- **Equitability**. Abundance Indicators, Relative Abundance, Pielou Index and Hill Index

Below it is given a short description of each of the indicators and their use.

1.3.1 COVERAGE INDEX

Coverage Percentage This indicator helps to identify the coverage of different species on the monitoring lot and to establish the percentage of soil without coverage. From here the potential affectation that actions like pickling and/or grubbing might have over the native flora.

1.3.2 EQUITIVITY INDEX

Abundance (ni) It permits the census in the lot to establish the quantity of exemplars by species found,

Relative abundance (p_i). It permits to establish the relation between the number of exemplars of a species in particular (ni) and the number of total exemplars (N) found in a monitoring lot.

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Pielou Index (J). This index permits to establish the equitability in a specific way It takes values between o and 1 where 1 refers to more biodiversity in the case that all the species were the same number of individuals (Moreno, 2001)

——

Where: H is the Shannon-Wiener Index and S is the Specific richness

Hill´s Equitability (E). It combines the results of the information obtained by the Shannon-Wiener Index and by Simpson Index using Hill´s Numbers

$$E = N_2 / N_1$$

Where: **N2 y N1** are Hill´s numbers

1.3.3 DIVERSITY INDICATORS

Especific Richness (S) It is the total number of species present in the monitoring site. It is understood that higher the value, the maximum diversity the site has.

Simpson Index (D) It established the diversity including in one value the specific richness and equitability.

Shannon- Wiener Index(H). It helps to determine the diversity of an area of study adjusting it to the relative abundance value using its same logarithm .

)

Hill´s Diversity numbers As away to establish comparable indicators in units (numbers of species) Hill´s diversity numbers will be used where:

$$N_0 = S$$
$$N_1 = e^H$$
$$N_2 = D^{-1}$$

These numbers measure the effective number of especies present in a sample and are a measure of the degree of distribution of the relative abundances among the species.

N_0 is the total number in the sample; N_1 is the number of abundant species and N_2 is the number of very abundant species

1.4 *SPECIES FILES*

Below are the study files of the frequent especies found in the monitoring lots

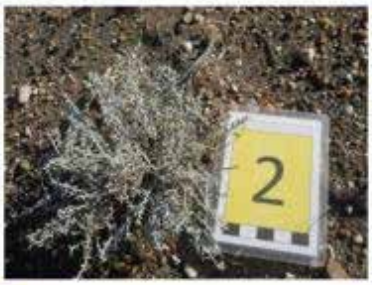
Ficha de relevamiento de campo

Nombre científico. *Atriplex lampa*

Nombre vulgar. Zampa

Familia. Amaranthaceae

Comentarios. Arbusto hasta 1,50 m de alto, esférico y ramoso, copa densa, tallo estriado, hojas pequeñas y angostas de color grisáceas.
Es muy frecuente en las regiones áridas de la Argentina. Ocupa sitios marginales, en suelos arenosos o pedregosos, banquinas y canteras.



Vista general

Detalle

Ficha de relevamiento de campo

Nombre científico. *Grindelia chiloensis*

Nombre vulgar. Botón de oro, melosa

Familia. Asteraceae

Comentarios. Mata ramificada de 30 a 80 cm de alto, con gran cantidad de hojas en los tallos, más concentradas en la base. Produce una resina lechosa y pegajosa en la superficie de sus hojas y frutos. Se multiplica por gajos y división de matas. Esta especie coloniza rápidamente los suelos removidos y erosionados. Las flores son de color amarillo y se agrupan en capítulos solitarios.

Vista general

Detalle

Ficha de relevamiento de campo

Nombre científico. *Condalia microphylla*

Nombre vulgar. Piquillín

Familia. Rhamnaceae

Comentarios. Arbusto de 0,5 a 2 m de altura, de ramas espinosas. Es una especie abundante y se distingue fácilmente de otros arbustos por su color verde oscuro. Hojas reducidas y con forma de elipse, dispuestas muy próximas entre si en las ramas. Es una especie endémica de Argentina.

Vista general

Detalle

Ficha de relevamiento de campo

Nombre científico. *Chuquiraga erinacea*

Nombre vulgar. Chilladora

Familia. Asteraceae

Comentarios. Arbusto de hasta 1,5 m de altura. Erguido con ramas erectas. Hojas alternas a lo largo del tallo, lineales con forma de aguja y espinosas en la punta de las ramas. Flores de color amarillo rodeadas por una corona de hojitas duras y doradas. Especie endémica de Argentina

Vista general

Detalle

Ficha de relevamiento de campo

Nombre científico. *Monttea aphylla*

Nombre vulgar. Matasebo

Familia. Scrophulariaceae

Comentarios. Arbusto leñoso de hasta 3 m de alto, de color verde oscuro, con ramas aguzadas hasta espiniformes y corteza exfoliable de color amarillento. Hojas pequeñas caducas y solamente en brotes muy tiernos. Esta especie se distribuye en el centro de la Argentina y norte de la Patagonia.

Vista general

Detalle

Ficha de relevamiento de campo

Nombre científico. *Ephedra chilensis*

Nombre vulgar. Pingo-Pingo

Familia. Ephedraceae

Comentario. Especie arbustiva con ramitas jóvenes erguidas, de 1 a 2,5 mm de diámetro, por lo general decusadas, verdosas o con la parte central y basal de la vaina algo abultadas y castañas cuando se secan. Plantas muy resistentes a la sequía.

Vista general

Detalle

Ficha de relevamiento de campo

Nombre científico. *Stipa speciosa*

Nombre vulgar. Coiron amargo

Familia. Poaceae

Comentarios. Planta perenne con forma de coirón de entre 30 y 60 cm de altura Posee láminas verde amarillentas, duras, glabras. Sus vainas son de color ladrillo con lígula pestañosa. Sus hojas son agresivas, sumamente pinchudas.

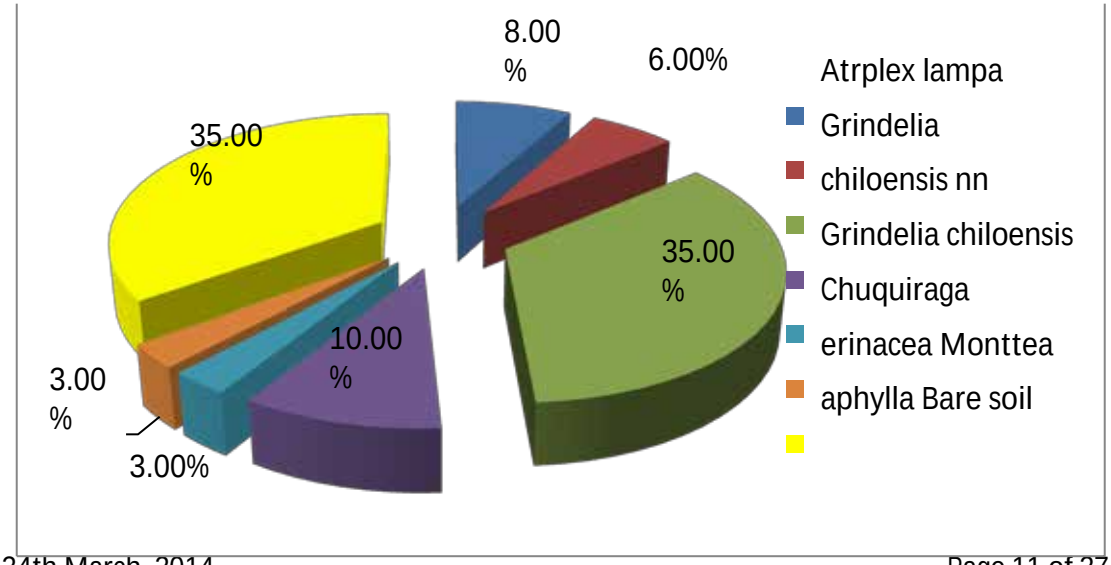
Vista general

Detalle

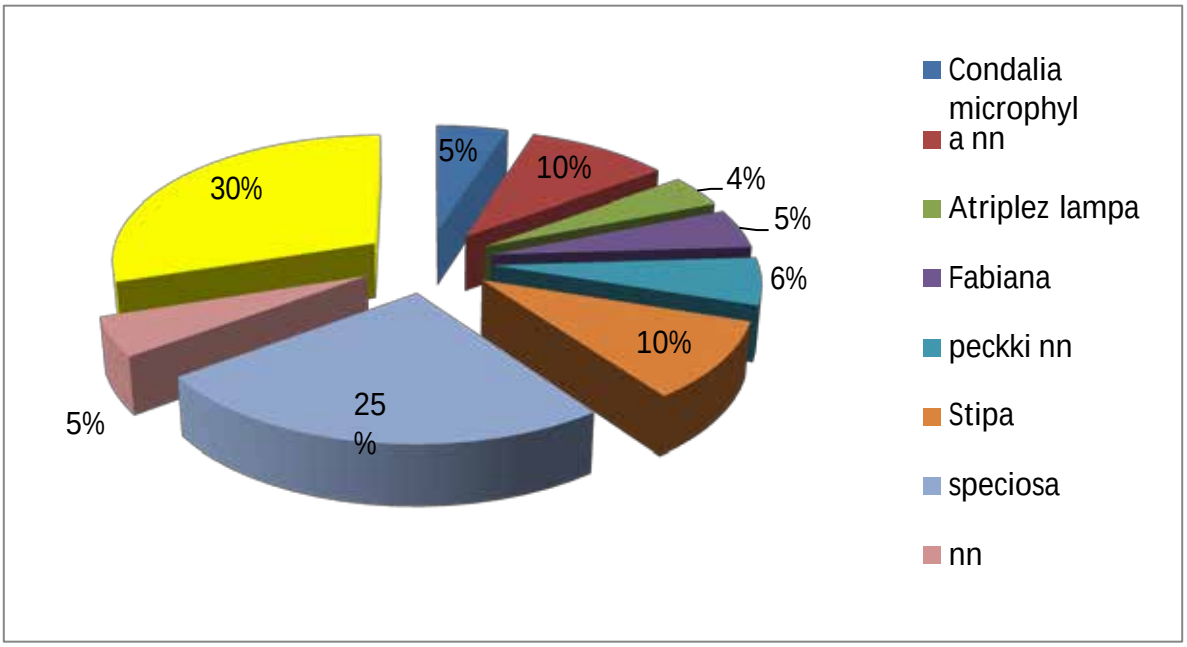
1.5 INDICATORS

1.5.1 COVERAGE

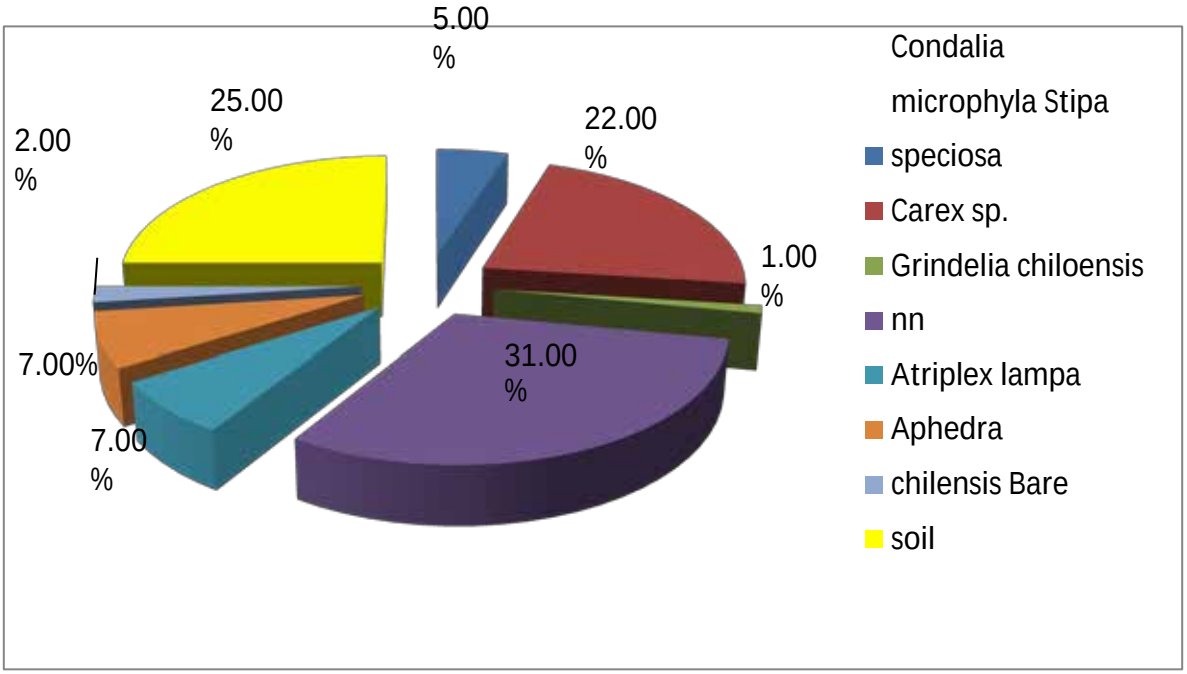
Below there is a graph that indicates the percentage of coverage by identified species in each one of the lots and the percentage of soil without coverage.



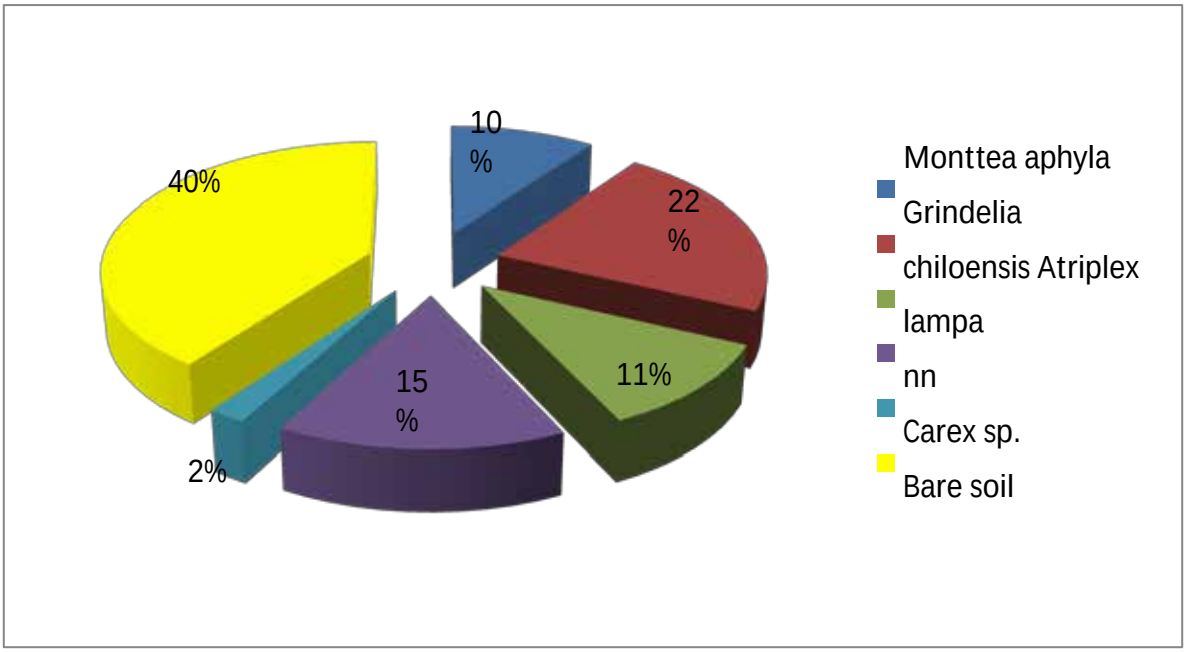
Graph 01. Coverage Percentage– Flora 1.



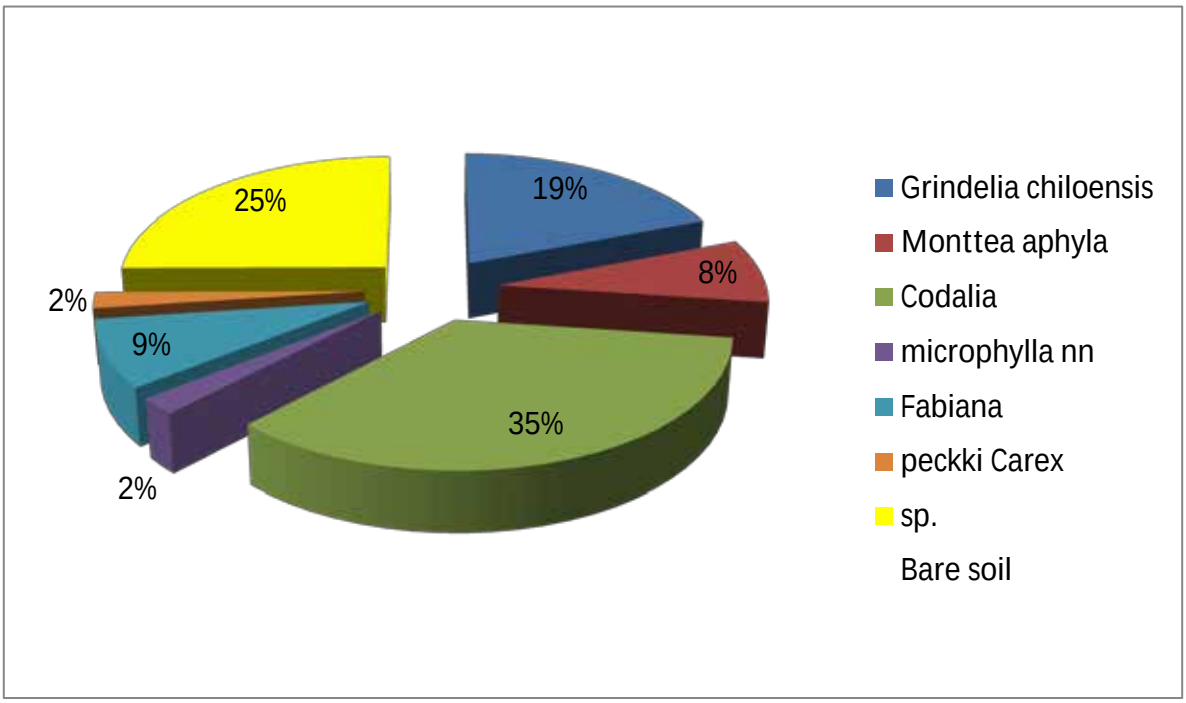
Graph 02 Coverage Percentage– Flora 2.



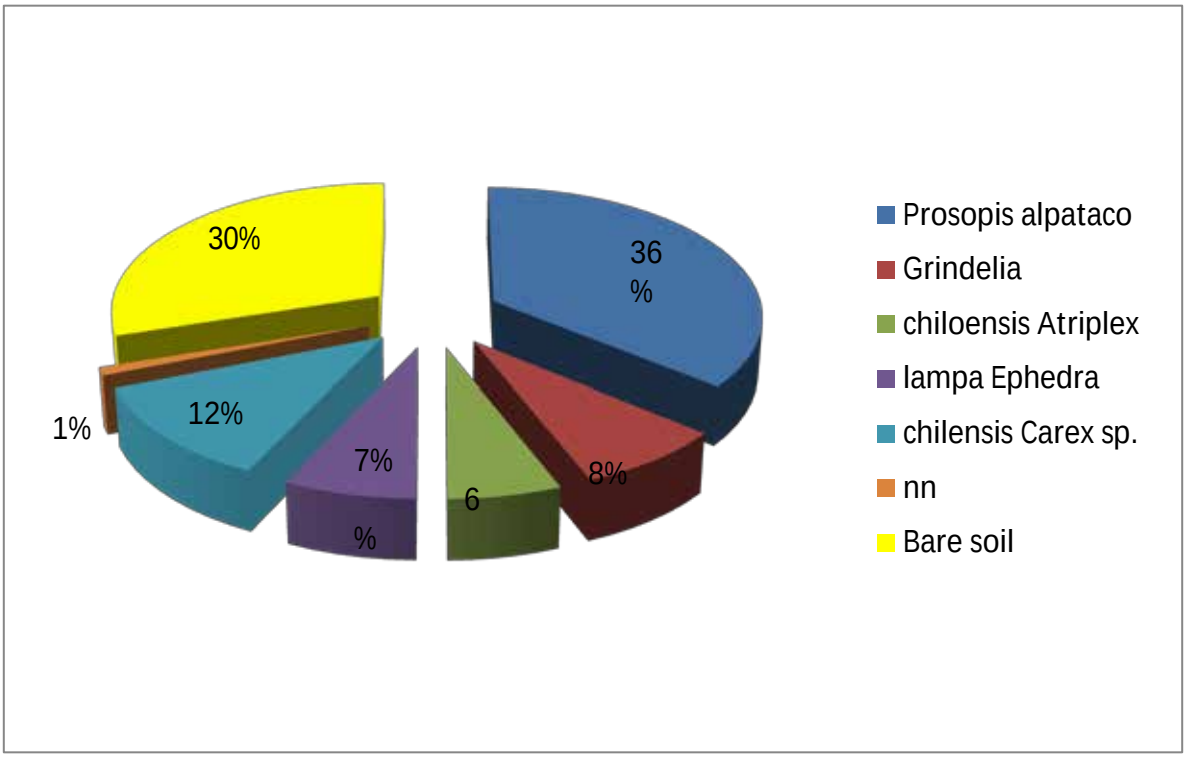
Graph 03. **Coverage Percentage– Flora 3.**



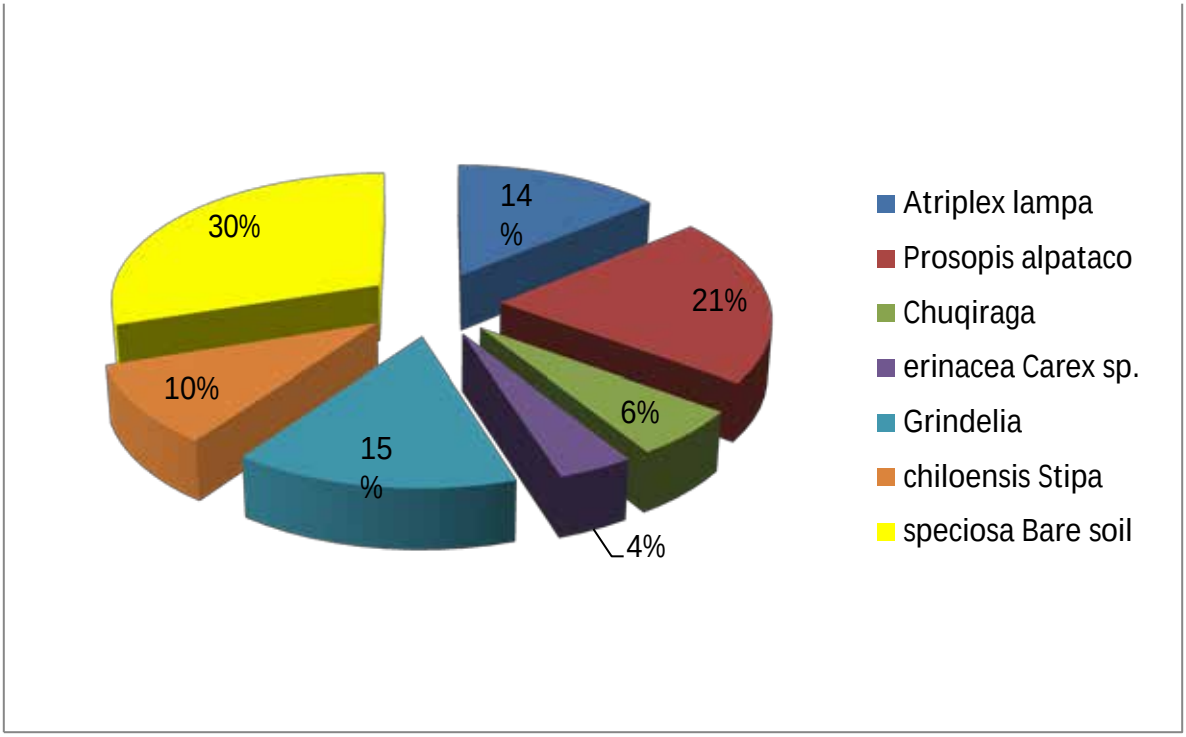
Graph 04. Coverage Percentage– Flora 4.



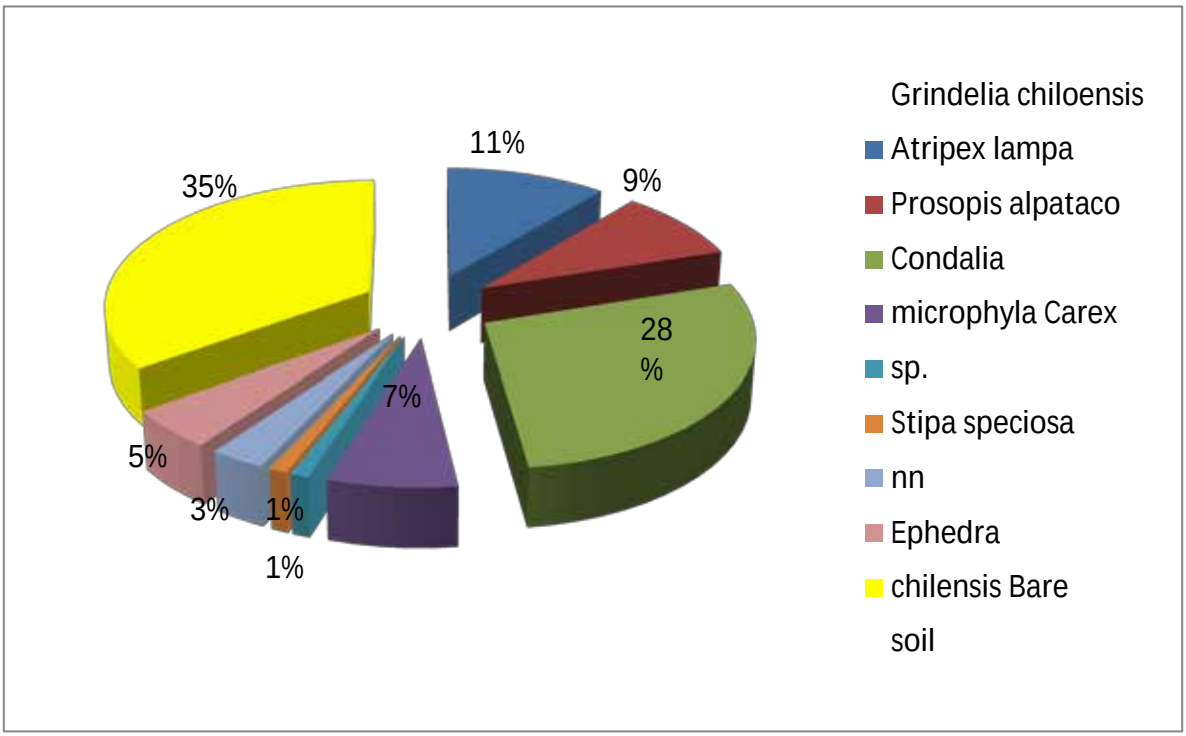
Graph 05 Coverage Percentage– Flora 5.



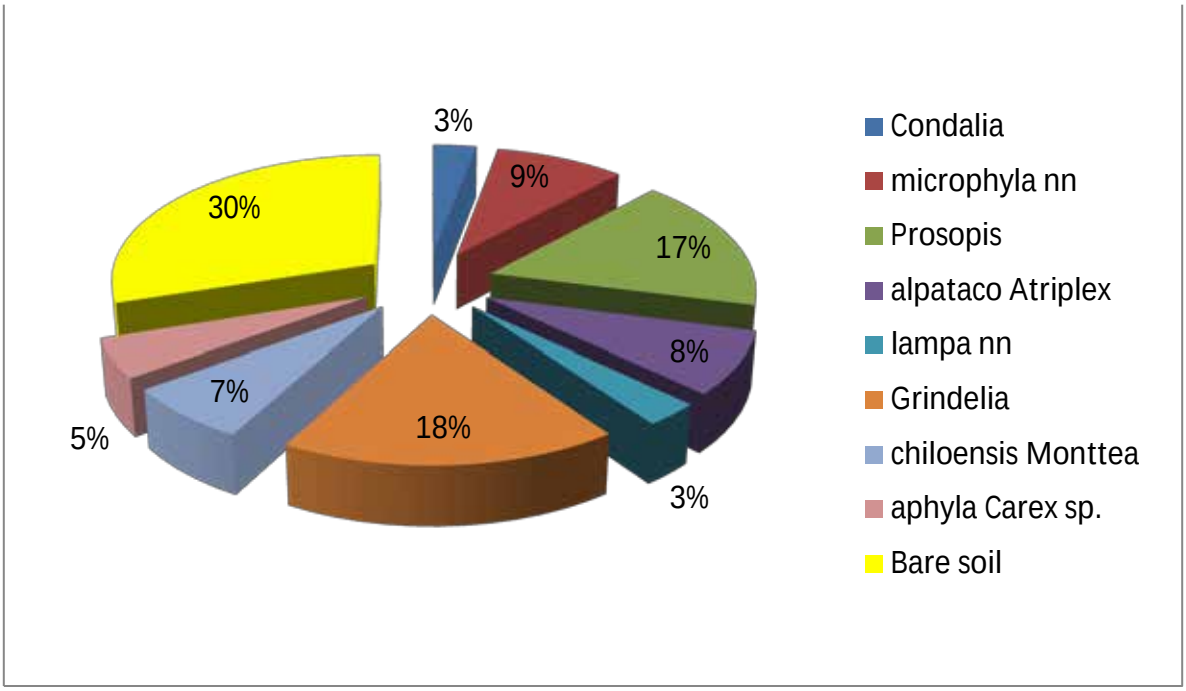
Graph 06 Coverage Percentage– Flora 6.



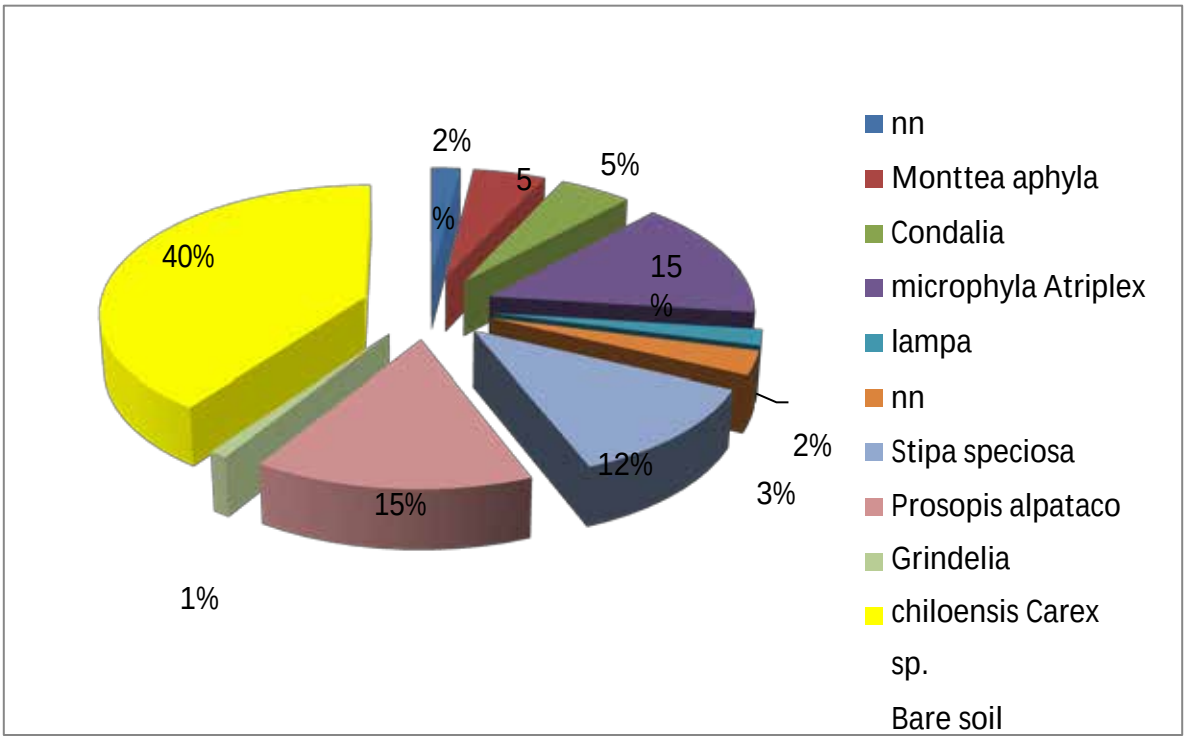
Graph 07. Coverage Percentage– Flora 7.



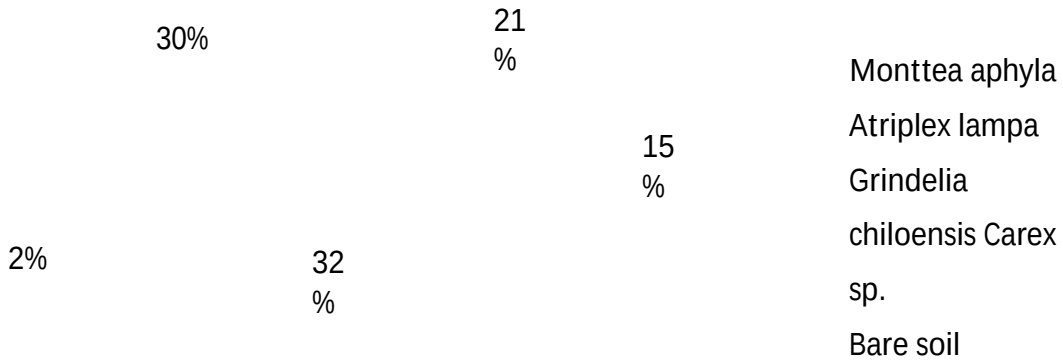
Graph 08 Coverage Percentage– Flora 8.



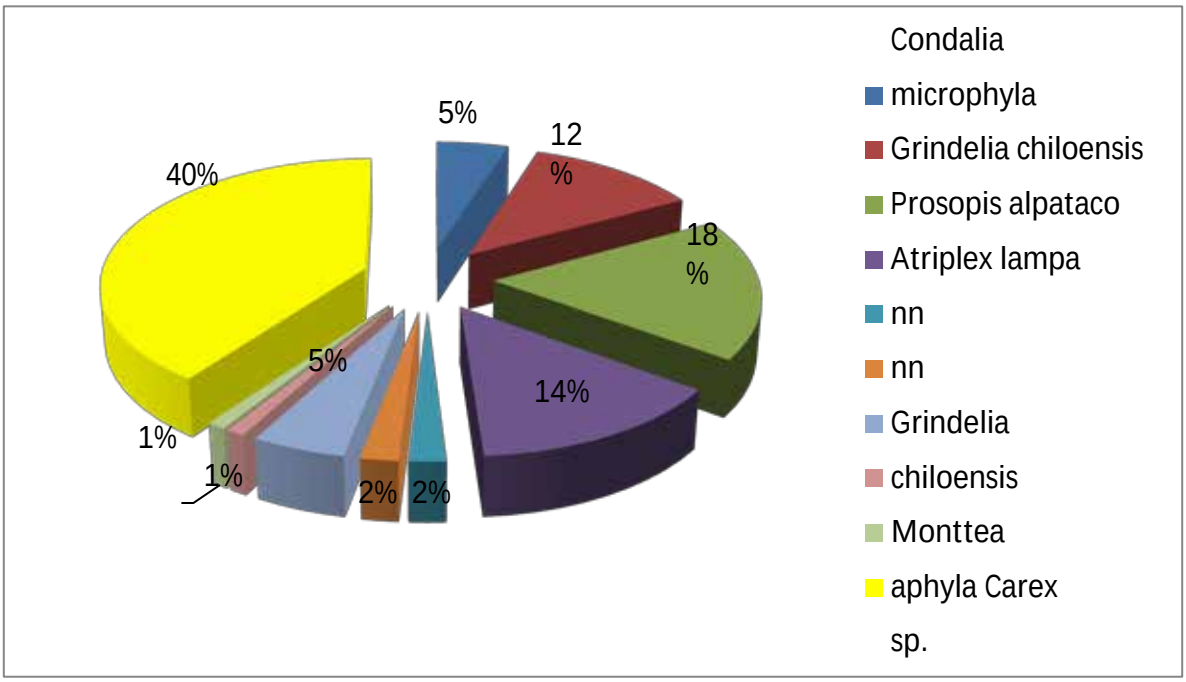
Graph 09 Coverage Percentage– Flora 9.



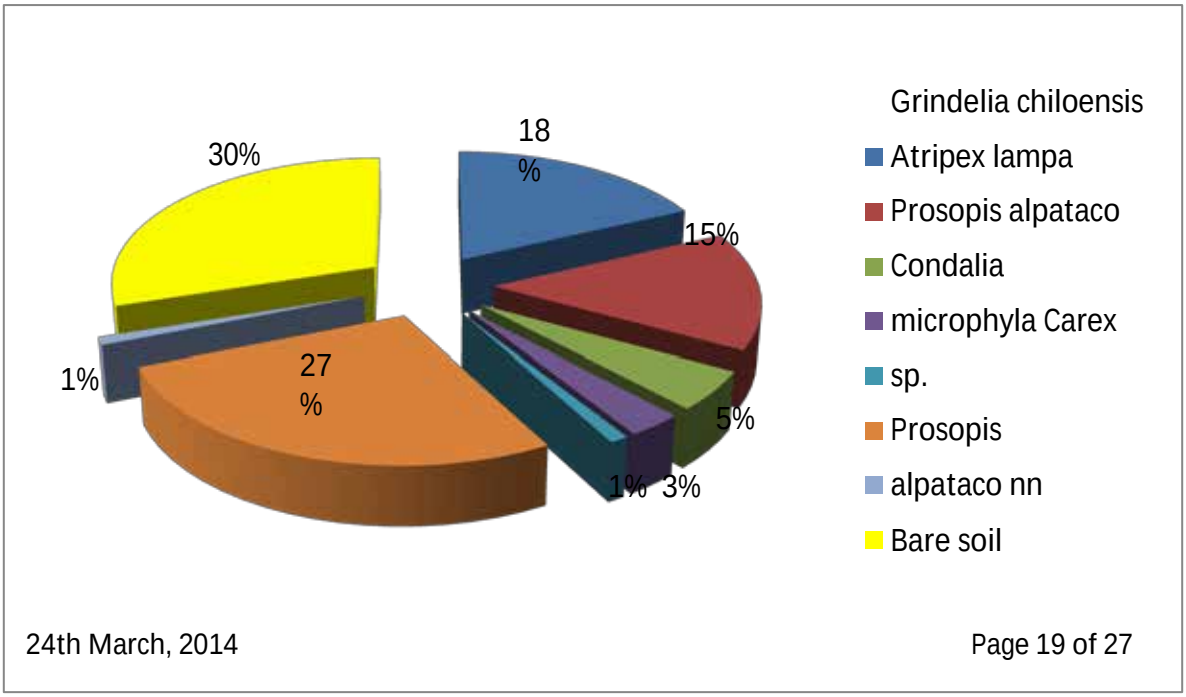
Graph 10 Coverage Percentage– Flora 10.



Graph 11. Coverage Percentage– Flora 11.



Graph 12 Coverage Percentage– Flora 12.



Graph 13 Coverage Percentage– Flora 13.

4.4.3. Diversity

Below are indicated in numerical form for each one of the lots the different indexes determined about diversity

Flora 1		1	2	3	4	5	6
Species		*Atrplex lampa*	*Grindelia chiloensi*	*nn*	*Grindelia chiloensi*	*Chuquiraga erinacea*	*Monttea aphylla*
Richness (S)	6						
Simpson Index (D)	**0.5117**	0.0069	0.0025	0.4900	0.0100	0.0011	0.0011
Shannon Index(H).	**1.0635**	-0.2071	-0.1498	-0.2497	-0.2303	-0.1134	-0.1134
N_0	**6.0**						
N_1	**2.9**						
N_2	**2.0**						

Flora 2		1	2	3	4	5	6	7	8
Species		*Condalia microphyla*	*nn*	*Atriplex*	*Fabiana peckki*	*nn*	*Stipa speciosa*	*nn*	*nn*
Richness (S)	8								
Simpson Index (D)	**0.1645**	0.0116	0.0462	0.0042	0.0260	0.0260	0.0462	0.0042	0.0001
Shannon Index(H).	**1.8918**	-0.2398	-0.3305	-0.1768	-0.2943	-0.2943	-0.3305	-0.1768	-0.0487
N_0	**8.0**								
N_1	**6.6**								
N_2	**6.1**								

Flora 3		1	2	3	4	5	6	7	
Species		*Condalia microphyla*	*Stipa speciosa*	*Carex sp.*	*Grindelia chiloensi*	*nn*	*Atriplex*	*Aphedra chilensis*	
Richness (S)	7								
Simpson Index (D)	**0.2101**	0.0097	0.0793	0.0002	0.0793	0.0198	0.0198	0.0018	
Shannon Index(H).	**1.6881**	-0.2284	-0.3569	-0.0600	-0.3569	-0.2761	-0.2761	-0.1337	
N_0	**7**								
N_1	**5.41**								
N_2	**4.76**								

Flora 4		1	2	3	4	5
Species		*Monttea aphyla*	*Grindelia chiloensi*	*Atriplex*	*nn*	*Carex sp.*
Richness (S)	5					
Simpson Index (D)	**0.2193**	0.0807	0.0418	0.0466	0.0418	0.0083
Shannon Index(H).	**1.5557**	-0.3575	-0.3246	-0.3310	-0.3246	-0.2180
N_0	**5.0**					
N_1	**4.7**					
N_2	**4.6**					

Flora 5		1	2	3	4	5	6
Species		*Grindelia chiloensi*	*Monttea aphyla*	*Codalia microphylla*	*nn*	*Fabiana peckki*	*Carex sp.*
Richness (S)		**6**					
Simpson Index (D)	**0.3128**	0.0453	0.0041	0.2395	0.0005	0.0072	0.0163
Shannon Index(H).	**1.4090**	-0.3293	-0.1756	-0.3497	-0.0819	-0.2097	-0.2628
N_0		**6.0**					
N_1		**4.1**					
N_2		**3.2**					

Flora 6		1	2	3	4	5	6
Species		*Prosopis alpataco*	*Grindelia chiloensi*	*Atriplex*	*Ephedra chilensi*	*Carex sp.*	*nn*
Richness (S)		**6**					
Simpson Index (D)	**0.1498**	0.0044	0.0228	0.0288	0.0649	0.0200	0.0089
Shannon Index(H).	**1.6137**	-0.1795	-0.2854	-0.3011	-0.3484	-0.2767	-0.2227
N_0		**6.0**					
N_1		**5.0**					
N_2		**6.7**					

Flora 7		1	2	3	4	5	6
Species		*Atriplex lampa*	*Prosopis alpataco*	*Chuqiraga erinacea*	*Carex sp.*	*Grindelia chiloensi*	*Stipa speciosa*
Richness (S)		**6**					
Simpson Index (D)	**0.2015**	0.0190	0.0669	0.0428	0.0003	0.0297	0.0428
Shannon Index(H).	**1.6480**	-0.2732	-0.3498	-0.3260	-0.0700	-0.3031	-0.3260
N_0		**6.0**					
N_1		**5.2**					
N_2		**5.0**					

Flora 8		1	2	3	4	5	6	7	8
Species		*Grindelia chiloensi*	*Atripex lampa*	*Prosopis alpataco*	*Condalia microphyla*	*Carex sp.*	*Stipa speciosa*	*nn*	*Ephedra chilensi*
Richness (S)		**8**							
Simpson Index (D)	**0.2158**	0.1385	0.0438	0.0087	0.0087	0.0005	0.0022	0.0049	0.0087
Shannon Index(H).	**1.7739**	-0.3679	-0.3273	-0.2209	-0.2209	-0.0875	-0.1427	-0.1858	-0.2209
N_0		**8.0**							
N_1		**5.9**							
N_2		**4.6**							

Flora 9		1	2	3	4	5	6	7	8
Species		*Condalia microphyl*	*nn*	*Prosopis alpataco*	*Atriplex*	*nn*	*Grindelia chiloensi*	*Monttea aphyla*	*Carex sp.*
Richness (S)		**8**							
Simpson Index (D)	**0.1574**	0.0044	0.0228	0.0288	0.0649	0.0200	0.0089	0.0032	0.0044
Shannon Index(H).	**1.9557**	-0.1795	-0.2854	-0.3011	-0.3484	-0.2767	-0.2227	-0.1625	-0.1795
N_0		**8.0**							
N_1		**7.1**							
N_2		**6.4**							

Flora 10		1	2	3	4	5	6	7	8	9
Species		*nn*	*Monttea aphyla*	*Condalia microphyla*	*Atriplex*	*nn*	*Stipa speciosa*	*Prosopis alpataco*	*Grindelia chiloensi*	*Carex sp.*
Richness (S)	9									
Simpson Index (D)	**0.1630**	0.0443	0.0054	0.0160	0.0028	0.0040	0.0443	0.0018	0.0443	0.0001
Shannon Index(H).	**1.9483**	-0.3280	-0.1922	-0.2613	-0.1550	-0.1744	-0.3280	-0.1334	-0.3280	-0.0479
N_0	**9.0**									
N_1	**7.0**									
N_2	**6.1**									

Flora 11		1	2	3	4
Species		*Monttea aphyla*	*Atriplex lampa*	*Grindelia chiloensi*	*Carex sp.*
Richness (S)	4				
Simpson Index (D)	**0.3878**	0.0400	0.0522	0.2947	0.0008
Shannon Index(H).	**1.0925**	-0.3219	-0.3374	-0.3316	-0.1016
N_0	**4.0**				
N_1	**3.0**				
N_2	**2.6**				

Flora 12		1	2	3	4	5	6	7	8	9
Species		*Condalia microphyl*	*Grindelia chiloensi*	*Prosopis alpatac*	*Atriplex*	*nn*	*nn*	*Monttea aphyla*	*Carex sp.*	*nn*
Richness (S)	9									
Simpson Index (D)	**0.1868**	0.0162	0.0212	0.1193	0.0003	0.0013	0.0030	0.0053	0.0083	0.0119
Shannon Index(H).	**1.9123**	-0.2624	-0.2804	-0.3672	-0.0729	-0.1205	-0.1587	-0.1906	-0.2180	-0.2417
N_0	**9.0**									
N_1	**6.8**									
N_2	**5.4**									

Flora 13		1	2	3	4	5	6	7
Species		*Grindelia chiloensi*	*Atriplex lampa*	*Condalia microphyla*	*Monttea aphyla*	*Carex sp.*	*Prosopis alpataco*	*nn*
Richness (S)	7							
Simpson Index (D)	**0.2603**	0.0253	0.0331	0.1865	0.0005	0.0021	0.0046	0.0083
Shannon Index(H).	**1.5926**	-0.2925	-0.3100	-0.3626	-0.0860	-0.1405	-0.1831	-0.2180
N_0	**7.0**							
N_1	**4.9**							
N_2	**3.8**							

4.4.4. Equitability.

Below are indicated in numerical form for each one of the lots the different indexes determined about equitability

Flora 1	1	2	3	4	5	6	
Species	*Atrplex lampa*	*Grindelia chiloensis*	*nn*	*Grindelia chiloensis*	*Chuquiraga erinacea*	*Monttea aphylla*	**TOTAL (N)**
Abundance (ni)	10	6	84	12	4	4	120
Relative abundance (pi).	8.3%	5.0%	70.0%	10.0%	3.3%	3.3%	
Pielou Index (J).	0.59						
Hill´s Index (E).	0.67						

Flora 2	1	2	3	4	5	6	7	8	
Species	*Condalia microphyla*	*nn*	*Atriplez lampa*	*Fabiana peckki*	*nn*	*Stipa speciosa*	*nn*	*nn*	TOTAL (N)
Abundance (ni)	10	20	6	15	15	20	6	1	93
Relative abundance (pi).	10.8%	21.5%	6.5%	16.1%	16.1%	21.5%	6.5%	1.1%	
Pielou Index (J).	0.91								
Hill´s Index (E).	0.92								

Flora 3	1	2	3	4	5	6	7	8	
Species	*Condalia microphyla*	*Stipa speciosa*	*Carex sp.*	*Grindelia chiloensi*	*nn*	*Atriplex lampa*	*Aphedra chilensi*		TOTAL (N)
Abundance (ni)	7	20	1	20	10	10	3		71
Relative abundance (pi).	9.9%	28.2%	1.4%	28.2%	14.1%	14.1%	4.2%		
Pielou Index (J).	0.87								
Hill´s Index (E).	0.88								

Flora 4	1	2	3	4	5	
Species	*Monttea aphyla*	*Grindelia chiloensi*	*Atriplex lampa*	*nn*	*Carex sp.*	TOTAL (N)
Abundance (ni)	25	18	19	18	8	88
Relative abundance (pi).	28.4%	20.5%	21.6%	20.5%	9.1%	
Pielou Index (J).	0.97					
Hill´s Index (E).	7.09					

Flora 5	1	2	3	4	5	6	
Species	*Grindelia chiloensi*	*Monttea aphyla*	*Codalia microphyll*	*nn*	*Fabiana peckki*	*Carex sp.*	TOTAL (N)
Abundance (ni)	10	3	23	1	4	6	47
Relative abundance (pi).	21.3%	6.4%	48.9%	2.1%	8.5%	12.8%	
Pielou Index (J).	0.79						
Hill´s Index (E).	0.78						

Flora 6	1	2	3	4	5	6	
Species	*Prosopis alpataco*	*Grindelia chiloensi*	*Atriplex lampa*	*Ephedra chilensis*	*Carex sp.*	*nn*	TOTAL (N)
Abundance (ni)	20	3	6	4	13	1	47
Relative abundance (pi).	42.6%	6.4%	12.8%	8.5%	27.7%	2.1%	
Pielou Index (J).	0.90						
Hill´s Index (E).	0.78						

Flora 7	1	2	3	4	5	6	
Species	*Atriplex lampa*	*Prosopis alpataco*	*Chuqiraga erinacea*	*Carex sp.*	*Grindelia chiloensi*	*Stipa speciosa*	TOTAL (N)
Abundance (ni)	8	15	12	1	10	12	58
Relative abundance (pi).	13.8%	25.9%	20.7%	1.7%	17.2%	20.7%	
Pielou Index (J).	0.92						
Hill´s Index (E).	1						

Flora 8	1	2	3	4	5	6	7	8	
Species	*Grindelia chiloensi*	*Atripex lampa*	*Prosopis alpataco*	*Condalia microphyla*	*Carex sp.*	*Stipa speciosa*	*nn*	*Ephedra chilensi*	TOTAL (N)
Abundance (ni)	16	9	4	4	1	2	3	4	43
Relative abundance (pi).	37.2%	20.9%	9.3%	9.3%	2.3%	4.7%	7.0%	9.3%	
Pielou Index (J).	0.85								
Hill´s Index (E).	0.79								

Flora 9	1	2	3	4	5	6	7	8	
Species	*Condalia microphyla*	*nn*	*Prosopis alpataco*	*Atriplex lampa*	*nn*	*Grindelia chiloensi*	*Monttea aphyla*	*Carex sp.*	TOTAL (N)
Abundance (ni)	7	16	18	27	15	10	6	7	106
Relative abundance (pi).	6.6%	15.1%	17.0%	25.5%	14.2%	9.4%	5.7%	6.6%	
Pielou Index (J).	0.94								
Hill´s Index (E).	0.90								

Flora 10	1	2	3	4	5	6	7	8	9	
Species	*nn*	*Monttea aphyla*	*Condalia microphyla*	*Atriplex lampa*	*nn*	*Stipa speciosa*	*Prosopis alpataco*	*Grindelia chiloensi*	*Carex sp.*	TOTAL (N)
Abundance (ni)	20	7	12	5	6	20	4	20	1	95
Relative abundance (pi).	21.1%	7.4%	12.6%	5.3%	6.3%	21.1%	4.2%	21.1%	1.1%	
Pielou Index (J).	0.89									
Hill´s Index (E).	0.87									

Flora 11	1	2	3	4	
Species	*Monttea aphyla*	*Atriplex lampa*	*Grindelia chiloensi*	*Carex sp.*	TOTAL (N)
Abundance (ni)	7	8	19	1	35
Relative abundance (pi).	20.0%	22.9%	54.3%	2.9%	
Pielou Index (J).	0.79				
Hill´s Index (E).	0.86				

Flora 12	1	2	3	4	5	6	7	8	9	
Species	*Condalia microphyla*	*Grindelia chiloensi*	*Prosopis alpataco*	*Atriplex lampa*	*nn*	*nn*	*Monttea aphyla*	*Carex sp.*	*nn*	TOTAL (N)
Abundance (ni)	7	8	19	1	2	3	4	5	6	55
Relative abundance (pi).	12.7%	14.5%	34.5%	1.8%	3.6%	5.5%	7.3%	9.1%	10.9%	
Pielou Index (J).	0.87									
Hill´s Index (E).	0.79									

Flora 13	1	2	3	4	5	6	7	
Species	*Grindelia chiloensi*	*Atriplex lampa*	*Condalia microphyl*	*Monttea aphyla*	*Carex sp.*	*Prosopis alpataco*	*nn*	TOTAL (N)
Abundance (ni)	7	8	19	1	2	3	4	44
Relative abundance (pi).	15.9%	18.2%	43.2%	2.3%	4.5%	6.8%	9.1%	
Pielou Index (J).	0.82							
Hill´s Index (E).	0.78							

2 INTRODUCED AND NATIVE FLORA

2.1 *LOCATION OF THE MONITORING SITES*

During the field investigation in the areas the following species were identified in the area of study.

MONITORING POINT	Coordinates	
	LATITUD	LONGITUD
FA 1	39°43'40.14"S	69°49'6.84"W
FA 2	39°44'36.69"S	69°49'35.00"W
FA 3	39°44'2.07"S	69°47'57.22"W
FA 4	39°45'4.98"S	69°47'37.39"W
FA 5	39°44'42.05"S	69°46'38.80"W
FA 6	39°44'7.90"S	69°45'29.37"W
FA 7	39°44'52.19"S	69°45'12.24"W
FA 8	39°46'3.63"S	69°44'40.27"W

Picture 02. LOCATION OF THE MONITORING SITES

Species	Common Name	Evidence of finding	Quantity
Dolichotis patagonum	Patagonic hare	Faeces	1
Lama guanicoe	Guanaco	Faeces	2
Equus ferus caballus	Criollo Horse	Watching	2
Zenaida auriculata	Dove	Watching	3
Rhea pennata	Choique	Watching	2

Table 02. Identified species Indicators

2.2 *FILES OF THE REPRESENTATIVE FAUNA*

Down are the files of the identified species with picture information that gives evidence of their presence in the field

Ficha de relevamiento de campo

Nombre científico. *Lama guanicoe*

Nombre vulgar. Guanaco

Comentarios. Es un herbívoro rumiante de cabeza pequeña, orejas largas terminadas en punta y fácilmente móviles. Su pelaje es lanoso, largo, grueso y espeso de color pardo oscuro a rojizo, con tonos blancos en las flancos, vientre, y parte inferior del cuello. El peso oscila entre los 70 y 100 kg. Habita en las llanuras áridas y pedregosas y en las grandes alturas cercanas a las nieves eternas .

Vista general

3 CONCLUSIONS

Considering the vegetation observed, represent 65% of average coverage It could be determined that the vegetation corresponds to that of the Biogeographic Province of the Monte, with bushes and herbaceous type and predominant species of the genre *Prosopis alpataco, Monttea aphyla, Atriplex Iampa and Grindelia chiloensis.*

With respect to the fauna, 10 individuals were identified through the identification of their faeces and direct watching.

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