ALBEMARLE®

INFORME SEMESTRAL N°7

Plan de Seguimiento Ambiental Biótico - PMB

Proyecto "Modificaciones y Mejoramiento del Sistema de Pozas de Evaporación Solar en el Salar de Atacama (RCA N°21/2016)"

ANEXO

Vegetación y Flora

Monitoreo Invierno 2019

Región de Antofagasta

Noviembre de 2019

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1 ANEXOS DE VEGETACIÓN Y FLORA

1.1 Cartografía COT (Invierno 2019)

Ver archivo adjunto PDF Cartografía COT (Invierno 2019):

- “Anexo_Vegetacion_flora_Cartografía_COT_(Invierno2019).PDF”

1.2 Ficha de terreno para la toma de datos con el método intercepto de puntos (Point Quadrat)

CEDREM					FORMULARIO "Vegetación Zonal"		REG 11-02		
					PROYECTO :	Plan de seguimiento ambiental Albemarle			
					LOCALIZACIÓN:				
					Transecta (PM):		Orientación		
N°folio/Responsables:					Formación cart-COT:				
Campaña/Fecha					Formación Vegetal:				
Coordenadas I	E:		N:		Especies dominantes:				
Coordenadas F	E:		N:		Grado de Alteración:				
Altitud (m):					Contenido de humedad	No saturado / Saturado / Sobresaturado			
N° fotos:					% Afloramiento salino	1 / 2 / 3 / 4 / 5			

Int(m)	sp1	sp2	sp3	sp4	Int(m)	sp1	sp2	sp3	sp4
0,1					6,3				
0,2					6,4				
0,3					6,5				
0,4					6,6				
0,5					6,7				
0,6					6,8				
0,7					6,9				
0,8					7				
0,9					7,1				
1					7,2				
1,1					7,3				
1,2					7,4				
1,3					7,5				
1,4					7,6				
1,5					7,7				
1,6					7,8				
1,7					7,9				
1,8					8				
1,9					8,1				
2					8,2				
2,1					8,3				
2,2					8,4				
2,3					8,5				
2,4					8,6				
2,5					8,7				
2,6					8,8				
2,7					8,9				
2,8					9				
2,9					9,1				
3					9,2				
3,1					9,3				
3,2					9,4				
3,3					9,5				
3,4					9,6				
3,5					9,7				
3,6					9,8				
3,7					9,9				
3,8					10				
3,9					10,1				
4					10,2				
4,1					10,3				
4,2					10,4				
4,3					10,5				
4,4					10,6				
4,5					10,7				
4,6					10,8				
4,7					10,9				
4,8					11				
4,9					11,1				
5					11,2				
5,1					11,3				
5,2					11,4				
5,3					11,5				
5,4					11,6				
5,5					11,7				
5,6					11,8				
5,7					11,9				
5,8					12				
5,9					12,1				
6					12,2				
6,1					12,3				
6,2					12,4				

Fuente: Cedrem Consultores.

1.3 Tablas y gráficos de análisis de cobertura desde Monitoreo Base 0

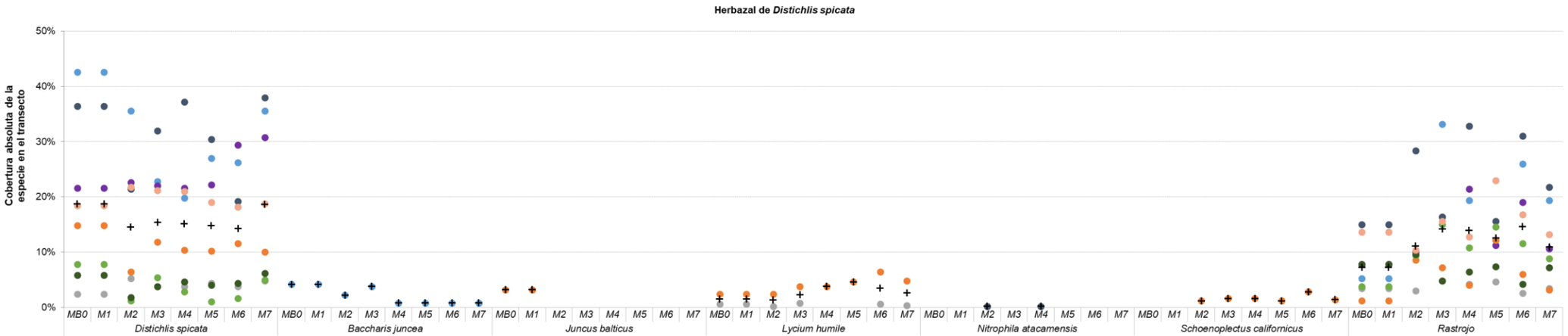
Tabla N° 1-1. Características físicas del suelo en las transectas en monitoreo de invierno M1, M3, M5 y M7 y MB0.

Formación vegetal	Subsector	Transecta	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino
			MB0 (2016)		M1 (Invierno 2016)		M3 (Invierno 2017)		M5 (Invierno 2018)		M7 (Invierno 2019)	
Herbazal de *Distichlis spicata*	Peine	T08	No saturado	>80%	No saturado	>80%	No saturado	>80%	Saturado	>80%	Saturado	30-50%
		T09	Sobresaturado	>80%	Saturado	>80%	No saturado	>80%	No saturado	>80%	Saturado	30-50%
	Tilopozo	T20	No saturado	50-80%	No saturado	>80%	No saturado	>80%	No saturado	>80%	Saturado	<10%
		T21	Saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	50-80%	No saturado	>80%
		T22	Saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	50-80%	No saturado	>80%
		T26	No saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	50-80%	No saturado	10-30%
		T27	-	>80%	No saturado	10-30%	No saturado	<10%	No saturado	<10%	No saturado	<10%
		T28	No saturado	50-80%	No saturado	>80%	No saturado	50-80%	No saturado	30-50%	No saturado	>80%
Herbazal de *Juncus balticus*	La Punta	T13	Saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	50-80%
	Tilopozo	T18	No saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	50-80%
		T30	Saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	>80%
		T31	No saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	>80%	No saturado	>80%
Herbazal de *Schoenoplectus californicus*	Peine	T01	Sobresaturado	10-30%	Sobresaturado	<10%	Sobresaturado	<10%	Sobresaturado	<10%	Sobresaturado	<10%
		T02	Saturado	10-30%	Saturado	<10%	Sobresaturado	<10%	Saturado	<10%	Saturado	<10%
		T03	No saturado	10-30%	Saturado	<10%	Saturado	<10%	Saturado	<10%	Sobresaturado	<10%
		T04	No saturado	10-30%	No saturado	<10%	No saturado	<10%	Saturado	<10%	Saturado	<10%
	Tilopozo	T19	-	-	No saturado	<10%	Saturado	<10%	Saturado	<10%	Saturado	<10%
		T29	Sobresaturado	-	Sobresaturado	<10%	Sobresaturado	<10%	Sobresaturado	<10%	Sobresaturado	<10%
Herbazal de *Triglochin concinna*	La Brava	T10	Sobresaturado	>80%	No saturado	>80%	Sobresaturado	>80%	Saturado	>80%	No saturado	>80%
	La Punta	T11	Sobresaturado	>80%	Sobresaturado	>80%	Sobresaturado	>80%	Sobresaturado	>80%	Sobresaturado	50-80%
Matorral de *Sarcocornia fruticosa*	La Punta	T12	Sobresaturado	>80%	No saturado	>80%	Saturado	>80%	Saturado	10-30%	Saturado	>80%
	Aguas de Quelana*	T15	-	>80%	Saturado	50-80%	Sobresaturado	>80%	No saturado	50-80%	Sobresaturado	>80%
		T16	Sobresaturado	>80%	Saturado	>80%	Sobresaturado	>80%	Saturado	>80%	Saturado	>80%
		T17	Sobresaturado	>80%	Sobresaturado	>80%	Sobresaturado	50-80%	Saturado	<10%	Sobresaturado	>80%
Matorral de *Tessaria absinthioides*	Peine	T05	No saturado	<10%	No saturado	<10%	No saturado	50-80%	No saturado	<10%	No saturado	<10%
		T06	No saturado	<10%	No saturado	<10%	No saturado	50-80%	No saturado	<10%	No saturado	<10%
		T07	No saturado	<10%	No saturado	<10%	No saturado	10-30%	No saturado	<10%	No saturado	<10%

Formación vegetal	Subsector	Transecta	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino	Contenido Humedad	Afloramiento salino
			MB0 (2016)		M1 (Invierno 2016)		M3 (Invierno 2017)		M5 (Invierno 2018)		M7 (Invierno 2019)	
	Tilopozo	T23	No saturado	-	No saturado	50-80%	No saturado	30-50%	No saturado	30-50%	No saturado	>80%
		T24	No saturado	10-30%	No saturado	50-80%	No saturado	50-80%	No saturado	10-30%	No saturado	>80%
		T25	-	-	No saturado	>80%	No saturado	50-80%	No saturado	30-50%	No saturado	>80%
Área desprovista de vegetación	Soncor	T14	Saturado	>80%	-	-	-	-	-	-	-	-

Fuente: Cedrem Consultores.

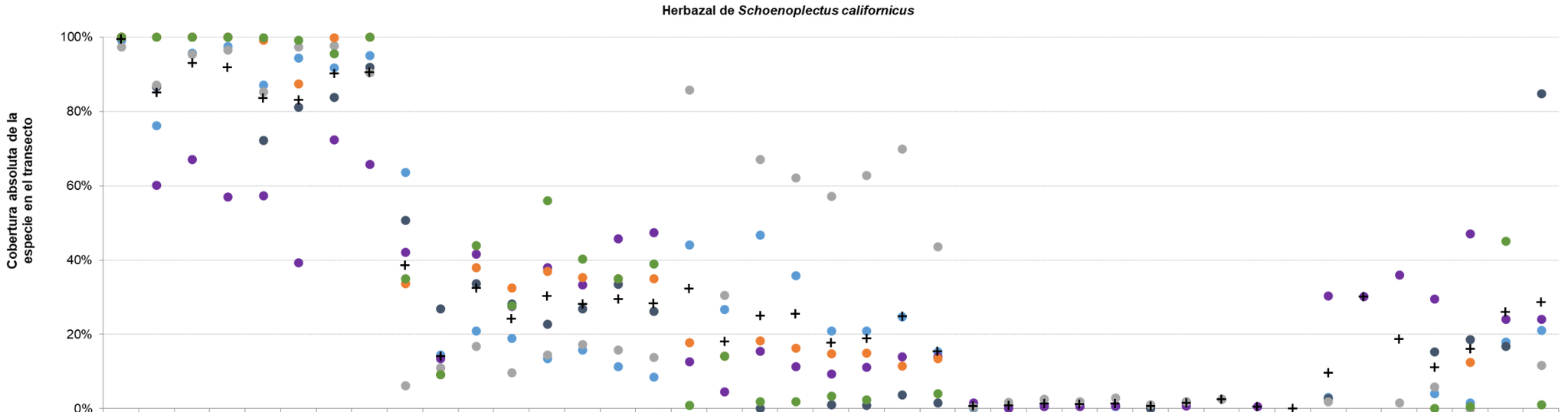
Figura N° 1-1. Cobertura absoluta de las especies registradas en las transectas de Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7, en la formación de herbazal de *Distichlis spicata*.



Especies	MB0	M1	M2	M3	M4	M5	M6	M7
Distichlis spicata								
T08	42,6	42,6	35,6	22,8	19,8	27,0	26,2	35,6
T09	21,6	21,6	22,6	22,0	21,6	22,2	29,4	30,8
T20	36,4	36,4	21,4	32,0	37,2	30,4	19,2	38,0
T21	2,4%	2,4%	5,2%	3,8%	3,8%	4,4%	3,8%	4,8%
T22	14,8	14,8	6,4%	11,8	10,4	10,2	11,6	10,0
T26	7,8%	7,8%	1,2%	5,4%	2,8%	1,0%	1,6%	5,0%
T27	5,8%	5,8%	1,8%	3,8%	4,6%	4,0%	4,4%	6,2%
T28	18,4	18,4	21,8	21,2	21,0	19,0	18,2	18,8
MEDIA	18,7	18,7	14,5	15,4	15,2	14,8	14,3	18,7
Baccharis juncea								
T08	4,2%	4,2%	2,2%	3,8%	0,8%	0,8%	0,8%	0,8%
T09								
T20								
T21								
T22								
T26								
T27								
T28								
MEDIA	4,2%	4,2%	2,2%	3,8%	0,8%	0,8%	0,8%	0,8%
Juncus balticus								
T08								
T09								
T20								
T21								
T22	3,2%	3,2%						
T26								
T27								
T28								
MEDIA	3,2%	3,2%						
Lycium humile								
T08								
T09								
T20								
T21	0,6%	0,6%	0,2%	0,8%		0,6%	0,4%	
T22	2,4%	2,4%	2,4%	3,8%	3,8%	4,6%	6,4%	4,8%
T26								
T27								
T28								
MEDIA	1,5%	1,5%	1,3%	2,3%	3,8%	4,6%	3,5%	2,6%
Nitrophila atacamensis								
T08								
T09								
T20			0,2%		0,2%			
T21								
T22								
T26								
T27								
T28								
MEDIA			0,2%		0,2%			
Schoenoplectus californicus								
T08								
T09								
T20								
T21								
T22			1,2%	1,6%	1,6%	1,2%	2,8%	1,4%
T26								
T27								
T28								
MEDIA			1,2%	1,6%	1,6%	1,2%	2,8%	1,4%
Rastrojo								
T08	5,2%	5,2%	9,4%	33,2	19,4	12,2	26,0	19,4
T09	7,8%	7,8%	10,0	16,4	21,4	11,2	19,0	10,6
T20	15,0	15,0	28,4	16,4	32,8	15,6	31,0	21,8
T21	3,4%	3,4%	3,0%	4,8%	4,2%	4,6%	2,6%	3,4%
T22	1,2%	1,2%	8,6%	7,2%	4,0%	12,2	6,0%	3,2%
T26	3,8%	3,8%	9,4%	15,0	10,8	14,6	11,6	8,8%
T27	7,8%	7,8%	9,6%	4,8%	6,4%	7,4%	4,2%	7,2%
T28	13,6	13,6	10,4	15,6	12,8	23,0	16,8	13,2
MEDIA	7,2%	7,2%	11,1	14,2	14,0	12,6	14,7	11,0
Vegetación muerta								
T08								
T09								
T20								
T21								
T22								
T26								
T27								
T28								
MEDIA								

Fuente: Elaboración propia.

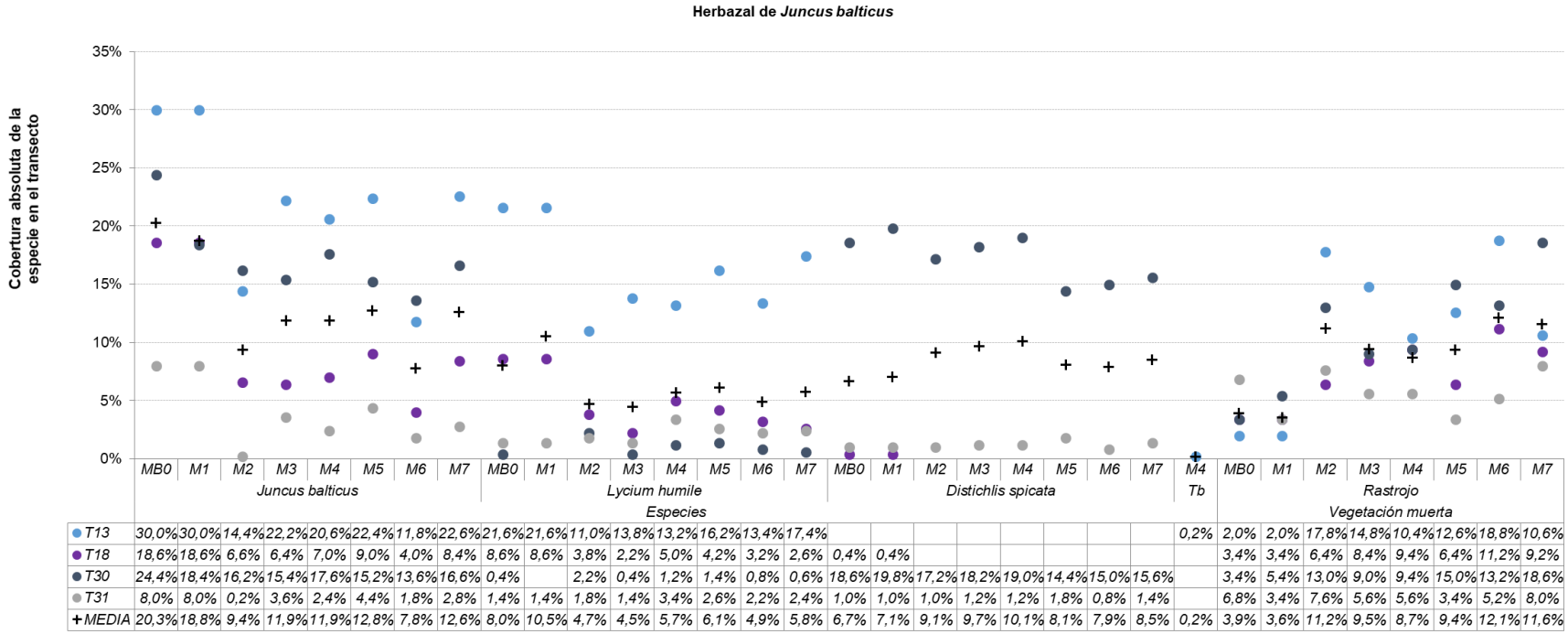
Figura N° 1-2. Cobertura absoluta de las especies registradas en las transectas de Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7, en la formación de herbazal de *Schoenoplectus californicus.**



	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	M4	MB0	M1	M2	M3	M4	M5	M6	M7
T01	99,2%	76,2%	95,8%	97,6%	87,2%	94,4%	91,8%	95,0%	63,6%	14,6%	21,0%	19,0%	13,6%	15,8%	11,4%	8,6%	44,2%	26,8%	46,8%	35,8%	21,0%	21,0%	24,8%	15,4%	0,2%	0,6%	1,0%	1,0%	0,6%	1,0%	2,0%				3,2%			4,2%	1,6%	18,0%	21,2%
T02	100,0	60,2%	67,2%	57,0%	57,4%	39,4%	72,4%	65,8%	42,2%	13,6%	41,6%	27,6%	38,0%	33,4%	45,8%	47,4%	12,8%	4,6%	15,6%	11,4%	9,4%	11,2%	14,0%	14,0%	1,6%	0,2%	0,6%	0,6%	0,8%	0,2%	0,8%		0,6%		30,4%	30,2%	36,0%	29,6%	47,2%	24,2%	24,2%
T03	100,0	86,6%	100,0	100,0	72,2%	81,2%	83,8%	92,0%	50,8%	27,0%	33,8%	28,2%	22,8%	27,0%	33,6%	26,2%			0,2%		1,2%	1,0%	3,8%	1,6%						0,2%					2,8%			15,4%	18,6%	16,8%	84,8%
T04	97,4%	87,2%	95,4%	96,6%	85,4%	97,4%	97,8%	90,4%	6,2%	11,0%	16,8%	9,8%	14,6%	17,4%	15,8%	13,8%	85,8%	30,6%	67,2%	62,2%	57,2%	62,8%	70,0%	43,6%	0,4%	1,8%	2,6%	2,0%	3,0%	1,2%	2,0%	2,6%			2,0%		1,6%	6,0%	0,0%		11,8%
T19	100,0	100,0	100,0	100,0	99,2%	87,4%	99,8%	100,0	33,8%	9,2%	38,0%	32,6%	37,0%	35,4%	35,0%	35,0%	17,8%	14,2%	18,4%	16,4%	14,8%	15,0%	11,6%	13,6%															12,6%		
T29	100,0	100,0	100,0	100,0	99,8%	99,2%	95,6%	100,0	35,0%	9,2%	44,0%	27,8%	56,0%	40,4%	35,0%	39,0%	1,0%	14,2%	2,0%	2,0%	3,4%	2,4%		4,2%														0,2%	0,6%	45,2%	1,2%
+ MEDIA	99,4%	85,0%	93,1%	91,9%	83,5%	83,2%	90,2%	90,5%	38,6%	14,1%	32,5%	24,2%	30,3%	28,2%	29,4%	28,3%	32,3%	18,1%	25,0%	25,6%	17,8%	18,9%	24,8%	15,4%	0,7%	0,9%	1,4%	1,2%	1,5%	0,7%	1,6%	2,6%	0,6%	0,0%	9,6%	30,2%	18,8%	11,1%	16,1%	26,1%	28,6%

*: En relación a la entrega del Informe semestral M5 (invierno 2018) no se incluye el taxa Cyperaceae, por comprobarse en M6 que se trataba de una etapa vegetativa (post-incendio) de *S. californicus*.
Fuente: Elaboración propia.

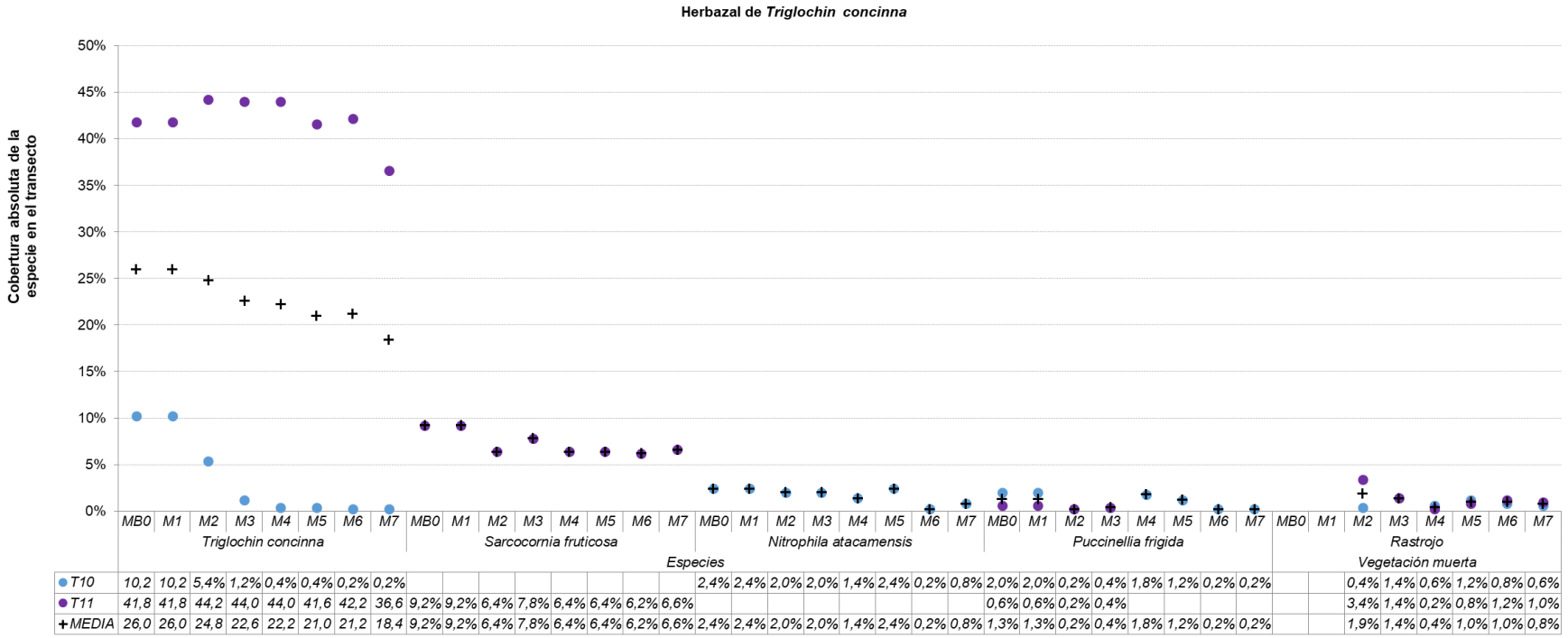
Figura N° 1-3. Cobertura absoluta de las especies registradas en las transectas de Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7, en la formación de herbazal de *Juncus balticus*.



Especies		MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	M4	MB0	M1	M2	M3	M4	M5	M6	M7
		Juncus balticus								*Lycium humile*								*Distichlis spicata*								*Tb*	*Rastrojo*							
																											Vegetación muerta							
●	*T13*	30,0%	30,0%	14,4%	22,2%	20,6%	22,4%	11,8%	22,6%	21,6%	21,6%	11,0%	13,8%	13,2%	16,2%	13,4%	17,4%									0,2%	2,0%	2,0%	17,8%	14,8%	10,4%	12,6%	18,8%	10,6%
●	*T18*	18,6%	18,6%	6,6%	6,4%	7,0%	9,0%	4,0%	8,4%	8,6%	8,6%	3,8%	2,2%	5,0%	4,2%	3,2%	2,6%	0,4%	0,4%								3,4%	3,4%	6,4%	8,4%	9,4%	6,4%	11,2%	9,2%
●	*T30*	24,4%	18,4%	16,2%	15,4%	17,6%	15,2%	13,6%	16,6%	0,4%		2,2%	0,4%	1,2%	1,4%	0,8%	0,6%	18,6%	19,8%	17,2%	18,2%	19,0%	14,4%	15,0%	15,6%		3,4%	5,4%	13,0%	9,0%	9,4%	15,0%	13,2%	18,6%
●	*T31*	8,0%	8,0%	0,2%	3,6%	2,4%	4,4%	1,8%	2,8%	1,4%	1,4%	1,8%	1,4%	3,4%	2,6%	2,2%	2,4%	1,0%	1,0%	1,0%	1,2%	1,2%	1,8%	0,8%	1,4%		6,8%	3,4%	7,6%	5,6%	5,6%	3,4%	5,2%	8,0%
+	*MEDIA*	20,3%	18,8%	9,4%	11,9%	11,9%	12,8%	7,8%	12,6%	8,0%	10,5%	4,7%	4,5%	5,7%	6,1%	4,9%	5,8%	6,7%	7,1%	9,1%	9,7%	10,1%	8,1%	7,9%	8,5%	0,2%	3,9%	3,6%	11,2%	9,5%	8,7%	9,4%	12,1%	11,6%

Donde: Especie Tb=*Tessaria absinthioides*.
Fuente: Elaboración propia.

Figura N° 1-4. Cobertura absoluta de las especies registradas en las transectas de Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7, en la formación de herbazal de *Triglochin concinna*.



	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7
T10	10,2	10,2	5,4%	1,2%	0,4%	0,4%	0,2%	0,2%									2,4%	2,4%	2,0%	2,0%	1,4%	2,4%	0,2%	0,8%	2,0%	2,0%	0,2%	0,4%	1,8%	1,2%	0,2%	0,2%			0,4%	1,4%	0,6%	1,2%	0,8%	0,6%
T11	41,8	41,8	44,2	44,0	44,0	41,6	42,2	36,6	9,2%	9,2%	6,4%	7,8%	6,4%	6,4%	6,2%	6,6%									0,6%	0,6%	0,2%	0,4%							3,4%	1,4%	0,2%	0,8%	1,2%	1,0%
MEDIA	26,0	26,0	24,8	22,6	22,2	21,0	21,2	18,4	9,2%	9,2%	6,4%	7,8%	6,4%	6,4%	6,2%	6,6%	2,4%	2,4%	2,0%	2,0%	1,4%	2,4%	0,2%	0,8%	1,3%	1,3%	0,2%	0,4%	1,8%	1,2%	0,2%	0,2%			1,9%	1,4%	0,4%	1,0%	1,0%	0,8%

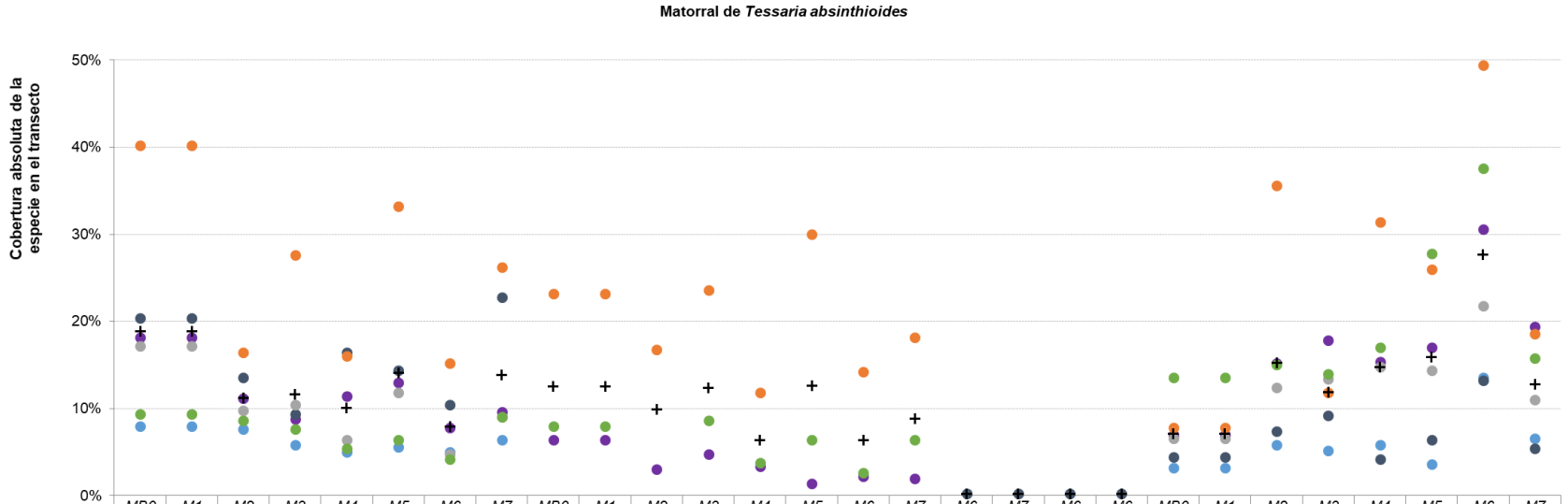
Fuente: Elaboración propia.

Figura N° 1-5. Cobertura absoluta de las especies registradas en las transectas de Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7, en la formación de matorral de *Sarcocornia fruticosa.**

	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7
	Sarcocornia fruticosa								*Nitrophila atacamensis*								*Puccinellia frigida*								*Triglochin concinna*								*Rastrojo*							
	Especies																																*Vegetación muerta*							
T12	37,0	37,0	26,6	32,6	28,0	31,0	23,6	21,0									0,8%	0,8%	0,4%		0,2%				0,8%	0,8%	0,2%						3,0%	3,0%	2,0%	3,2%	7,6%	8,2%	10,0	15,0
T15	27,4	27,4	25,6	29,8	25,2	26,2		31,8	19,0	19,0	14,8	12,6	8,6%	8,2%		6,6%	6,0%	6,0%	5,8%	4,6%	3,2%	5,0%		4,6%	0,2%	0,2%	0,4%	0,2%	0,4%	0,4%		0,4%	1,6%	1,6%	2,4%	3,8%	6,8%	8,0%		4,0%
T16	16,8	16,8	14,2	11,0	10,6	13,0		12,6																									2,6%	2,6%	3,8%	4,6%	7,0%	6,8%		4,8%
T17	52,2	52,2	45,8	48,0	43,8	47,8		49,0																									1,2%	1,2%	6,8%	3,8%	9,0%	6,4%		3,8%
+*MEDIA*	33,4	33,4	28,1	30,4	26,9	29,5	23,6	28,6	19,0	19,0	14,8	12,6	8,6%	8,2%		6,6%	3,4%	3,4%	3,1%	4,6%	1,7%	5,0%		4,6%	0,5%	0,5%	0,3%	0,2%	0,4%	0,4%		0,4%	2,1%	2,1%	3,8%	3,9%	7,6%	7,4%	10,0	6,9%

*: Transectas T15, T16 y T17 del subsector Aguas de Quelana sin muestreo estacional en Monitoreo 6 por restricciones de acceso.
Fuente: Elaboración propia.

Figura N° 1-6. Cobertura absoluta de las especies registradas en las transectas de Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7, en la formación de matorral de *Tessaria absinthioides*.



	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	M6	M7	M6	M6	MB0	M1	M2	M3	M4	M5	M6	M7
	Tessaria absinthioides								Distichlis spicata								Aa		cid	Tt	Rastrojo							
	Especies																				Vegetación muerta							
T05	8,0%	8,0%	7,6%	5,8%	5,0%	5,6%	5,0%	6,4%													3,2%	3,2%	5,8%	5,2%	5,8%	3,6%	13,6%	6,6%
T06	18,2%	18,2%	11,2%	8,8%	11,4%	13,0%	7,8%	9,6%	6,4%	6,4%	3,0%	4,8%	3,4%	1,4%	2,2%	2,0%					7,0%	7,0%	15,2%	17,8%	15,4%	17,0%	30,6%	19,4%
T07	20,4%	20,4%	13,6%	9,4%	16,4%	14,4%	10,4%	22,8%									0,2%	0,2%	0,2%	0,2%	4,4%	4,4%	7,4%	9,2%	4,2%	6,4%	13,2%	5,4%
T23	17,2%	17,2%	9,8%	10,4%	6,4%	11,8%	4,8%	9,0%													6,6%	6,6%	12,4%	13,4%	14,8%	14,4%	21,8%	11,0%
T24	40,2%	40,2%	16,4%	27,6%	16,0%	33,2%	15,2%	26,2%	23,2%	23,2%	16,8%	23,6%	11,8%	30,0%	14,2%	18,2%					7,8%	7,8%	35,6%	11,8%	31,4%	26,0%	49,4%	18,6%
T25	9,4%	9,4%	8,6%	7,6%	5,4%	6,4%	4,2%	9,0%	8,0%	8,0%		8,6%	3,8%	6,4%	2,6%	6,4%					13,6%	13,6%	15,0%	14,0%	17,0%	27,8%	37,6%	15,8%
MEDIA	18,9%	18,9%	11,2%	11,6%	10,1%	14,1%	7,9%	13,8%	12,5%	12,5%	9,9%	12,3%	6,3%	12,6%	6,3%	8,9%	0,2%	0,2%	0,2%	0,2%	7,1%	7,1%	15,2%	11,9%	14,8%	15,9%	27,7%	12,8%

Donde: Especie Aa= *Atriplex atacamensis;* cid= *Cistanthe densiflora*; Tt= *Tiquilia atacamensis*.
Fuente: Elaboración propia.

Tabla N° 1-2. Riqueza y Cobertura absoluta y promedio de las transectas en Monitoreo Base 0, M1, M2, M3, M4, M5, M6* y M7.

Formación vegetal	Transecta	Subsector	Cobertura vegetación (%)																												Cobertura absoluta Otros recubrimientos (%)							Riqueza (No. de especies)							
			Absoluta								Promedio								Absoluta muerta/rastrojo																									
			MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	M1	M2	M3	M4	M5	M6	M7	MB 0	M1	M2	M3	M4	M5	M6	M7
Herbazal de sca	*T01*	P	207,2	118,2	164,6	153,4	122,4	132,2	130,0	119,0	51,8	29,6	41,2	38,4	30,6	33,1	32,5	39,7	-	3,2	-	-	4,2	1,6	18,0	21,2	0,8	-	-	0,8	-	-	0,2	4	4	4	4	4	4	4	3
	T02		156,6	78,6	125,0	96,6	105,6	84,2	133,0	127,8	39,2	19,7	31,3	24,2	26,4	21,1	33,3	32,0	-	30,4	30,2	36,0	29,6	47,2	24,2	24,2	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4
	T03		150,8	113,6	134,0	128,2	96,2	109,4	121,2	119,8	75,4	56,8	44,7	64,1	32,1	27,4	40,4	39,9	-	2,8	-	-	15,4	18,6	16,8	84,8	-	-	-	-	-	-	-	2	2	3	2	3	4	3	3
	T04		189,8	130,6	182,0	170,6	160,2	178,8	185,6	150,4	47,5	32,7	45,5	42,7	40,1	44,7	46,4	37,6	-	2,0	-	1,6	6,0	-	-	11,8	1,0	-	-	-	0,2	-	-	4	4	4	4	4	4	4	4
	T19	T	151,6	123,4	156,4	149,0	151,0	137,8	146,4	148,6	50,5	41,1	52,1	49,7	50,3	45,9	48,8	49,5	-	-	-	-	-	12,6	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3
	T29		136,0	123,4	146,0	129,8	159,2	142,0	130,6	143,2	45,3	41,1	48,7	43,3	53,1	47,3	65,3	47,7	-	-	-	-	0,2	0,6	45,2	1,2	-	-	-	-	-	-	-	3	3	3	3	3	3	2	3
Herbazal de jb	*T13*	LP	51,6	51,6	25,4	36,0	34,0	38,6	25,2	40,0	25,8	25,8	12,7	18,0	11,3	19,3	12,6	20,0	2,0	2,0	17,8	14,8	10,4	12,6	18,8	10,6	61,2	61,6	60,2	63,0	61,4	60,8	60,8	2	2	2	2	3	2	2	2
	T18	T	27,6	27,6	10,4	8,6	12,0	13,2	7,2	11,0	9,2	9,2	5,2	4,3	6,0	6,6	3,6	5,5	3,4	3,4	6,4	8,4	9,4	6,4	11,2	9,2	70,6	83,8	83,0	80,6	82,2	82,0	80,6	3	3	2	2	2	2	2	2
	T30		43,4	38,2	35,6	34,0	37,8	31,0	29,4	32,8	14,5	19,1	11,9	11,3	12,6	10,3	9,8	10,9	6,8	5,4	13,0	9,0	9,4	15,0	13,2	18,6	63,4	56,4	60,2	56,4	59,2	61,2	53,8	3	2	3	3	3	3	3	3
	T31		10,4	10,4	3,0	6,2	7,0	8,8	4,8	6,6	3,5	3,5	1,0	1,0	2,3	2,9	1,6	2,2	3,4	3,4	7,6	5,6	5,6	3,4	5,2	8,0	86,2	89,4	88,2	87,8	87,8	90,0	85,4	3	3	3	6	3	3	3	3
Herbazal de dp	*T08*	P	46,8	46,8	37,8	26,6	20,6	27,8	27,0	36,4	23,4	23,4	18,9	13,3	10,3	13,9	13,5	18,2	5,2	5,2	9,4	33,2	19,4	12,2	26,0	19,4	51,0	54,6	42,8	60,6	60,2	47,4	44,4	2	2	2	2	2	2	2	2
	T09		21,6	21,6	22,6	22,0	21,6	22,2	29,4	30,8	21,6	21,6	22,6	22,0	21,6	22,2	29,4	30,8	7,8	7,8	10,0	16,4	21,4	11,2	19,0	10,6	70,6	67,4	61,6	57,0	66,6	51,6	58,6	1	1	1	1	1	1	1	1
	T20	T	36,4	36,4	21,6	32,0	37,4	30,4	19,2	38,0	36,4	36,4	10,8	32,0	18,7	30,4	19,2	38,0	15,0	15,0	28,4	16,4	32,8	15,6	31,0	21,8	48,6	50,0	51,6	30,0	54,0	49,8	40,2	1	1	2	1	2	1	1	1
	T21		3,0	3,0	5,4	4,6	3,8	4,4	4,4	5,2	1,5	1,5	2,7	2,3	3,8	4,4	2,2	2,6	3,4	3,4	3,0	4,8	4,2	4,6	2,6	3,4	93,6	91,6	90,6	92,0	91,0	93,0	91,4	2	2	2	2	1	1	2	2
	T22		20,4	20,4	10,0	17,2	15,8	16,0	20,8	16,2	6,8	6,8	3,3	5,7	5,3	5,3	6,9	5,4	1,2	1,2	8,6	7,2	4,0	12,2	6,0	3,2	80,8	82,4	78,2	81,4	73,8	77,4	83,2	3	3	3	3	3	3	3	3
	T26		7,8	7,8	1,2	5,4	2,8	1,0	1,6	5,0	7,8	7,8	1,2	5,4	2,8	1,0	1,6	5,0	3,8	3,8	9,4	15,0	10,8	14,6	11,6	8,8	88,4	89,4	79,6	86,4	84,4	86,8	86,2	1	1	1	1	1	1	1	1
	T27		5,8	5,8	1,8	3,8	4,6	4,0	4,4	6,2	5,8	5,8	1,8	3,8	4,6	4,0	4,4	6,2	7,8	7,8	9,6	4,8	6,4	7,4	4,2	7,2	86,4	88,6	91,4	89,0	88,6	91,4	86,6	1	1	1	1	1	1	1	1
	T28		18,4	18,4	21,8	21,2	21,0	19,0	18,2	18,8	18,4	18,4	21,8	21,2	21,0	19,0	18,2	18,8	13,6	13,6	10,4	15,6	12,8	23,0	16,8	13,2	68,0	67,8	63,2	66,2	58,0	65,0	68,0	1	1	1	1	1	1	1	1
Herbazal de tc	*T10*	LB	14,6	14,6	7,6	3,6	3,6	4,0	0,6	1,2	4,9	4,9	2,5	1,2	1,2	1,3	0,2	0,4	-	-	0,4	1,4	0,6	1,2	0,8	0,6	85,4	92,2	95,2	96,0	95,2	98,8	98,4	3	3	3	3	3	3	4	3
	T11	LP	51,6	51,6	50,8	52,2	50,4	48,0	48,4	43,2	17,2	17,2	16,9	17,4	25,2	24,0	16,1	21,6	-	-	3,4	1,4	0,2	0,8	1,2	1,0	54,6	49,0	50,2	51,8	41,4	52,8	59,4	3	3	3	3	2	2	3	2
Matorral de Sf	*T12*		38,6	38,6	27,2	32,6	28,2	31,0	23,6	21,0	12,9	12,9	9,1	32,6	14,1	31,0	23,6	21,0	3,0	3,0	2,0	3,2	7,6	8,2	10,0	15,0	59,4	71,2	64,2	64,4	60,8	66,4	64,2	3	3	3	1	2	1	1	1
	T15		52,6	52,8	46,6	47,2	37,4	39,8	-	43,4	13,2	13,2	11,7	11,8	9,4	10,0	-	10,9	1,6	2,0	2,4	3,8	6,8	8,0	-	4,0	52,6	55,6	52,0	57,8	56,8	-	55,6	4	4	4	4	4	4	0	4
	T16	AQ*	16,8	16,8	14,2	11,0	10,6	13,0	-	12,6	16,8	16,8	14,2	11,0	10,6	13,0	-	12,6	2,6	2,6	3,8	4,6	7,0	6,8	-	4,8	80,6	82,0	84,4	82,4	80,4	-	82,6	1	1	1	1	1	1	0	1
	T17		52,2	52,2	45,8	48,0	43,8	47,8	-	49,0	52,2	52,2	45,8	48,0	43,8	47,8	-	49,0	1,2	1,2	6,8	3,8	9,0	6,4	-	3,8	46,6	47,4	48,2	47,2	45,8	-	47,2	1	1	1	1	1	1	0	1
Matorral de Tb	*T05*	P	8,0	8,0	7,6	5,8	5,0	5,6	5,0	6,4	8,0	8,0	7,6	5,8	5,0	5,6	5,0	6,4	3,2	3,2	5,8	5,2	5,8	3,6	13,6	6,6	88,8	86,6	89,0	89,2	90,8	81,4	87,0	1	1	1	1	1	1	1	1
	T06		24,6	24,6	14,2	13,6	14,8	14,4	10,0	11,6	12,3	12,3	7,1	6,8	7,4	7,2	5,0	5,8	7,0	7,0	15,2	17,8	15,4	17,0	30,6	19,4	70,0	70,6	69,6	70,8	69,6	59,8	69,2	2	2	2	2	2	2	2	2
	T07		20,4	20,4	13,6	9,4	16,4	14,4	11,0	23,0	20,4	20,4	13,6	9,4	16,4	14,4	2,8	11,5	4,4	4,4	7,4	9,2	4,2	6,4	13,2	5,4	75,2	79,0	81,4	79,4	79,2	76,0	71,6	1	1	1	1	1	1	4	2
	T23	T	17,2	17,2	9,8	10,4	6,4	11,8	4,8	9,0	17,2	17,2	9,8	10,4	6,4	11,8	4,8	9,0	6,6	6,6	12,4	13,4	14,8	14,4	21,8	11,0	76,2	77,8	76,2	78,8	73,8	73,4	80,0	1	1	1	1	1	1	1	1
	T24		63,4	63,4	33,2	51,2	27,8	63,2	29,4	44,4	31,7	31,7	16,6	25,6	13,9	31,6	14,7	22,2	7,8	7,8	35,6	11,8	31,4	26,0	49,4	18,6	44,4	34,0	44,2	47,6	33,0	31,4	47,6	2	2	2	2	2	2	2	2
	T25		17,4	17,4	16,4	16,2	9,2	12,8	6,8	15,4	8,7	8,7	8,2	8,1	4,6	6,4	3,4	7,7	13,6	13,6	15,0	14,0	17,0	27,8	37,6	15,8	69,8	69,2	70,6	74,6	60,2	55,6	70,2	2	2	2	2	2	2	2	2

*: Subsector Aguas de Quelana sin muestreo estacional en Monitoreo 6 por restricciones de acceso; y en relación a la entrega del Informe semestral M5 (invierno 2018) varían valores del subsector Tilopozo para dicha campaña por comprobarse en M6 que el taxa Cyperaceae se trataba de una etapa vegetativa (post-incendio) de *S. californicus*.

Donde: Códigos especies: sca=*Schoenoplectus californicus*, dp=*Distichlis spicata*, tc= *Triglochin concinna*, Sf= *Sarcocornia fruticosa*, Tb=*Tessaria absinthioides.*

Códigos subsectores: P= Peine; T= Tilopozo; LP: La Punta; LB= La Brava; AQ= Aguas de Quelana.

Fuente: Elaboración propia.

Tabla N° 1-3. Cobertura absoluta de otros recubrimientos en las transectas en Monitoreos de Invierno M1, M3, M5 y M7.

Formación vegetal	Transecta	Sector	Cobertura absoluta de Otros recubrimientos (%)																									
			Agua superficial				Costra Salina (Cs)				Cs sobresaturada				Cs saturada				Cs terrosa				Terroso				Total (%)			
			M1	M3	M5	M7	M1	M3	M5	M7	M1	M3	M5	M7	M1	M3	M5	M7	M1	M3	M5	M7	M1	M3	M5	M7	M1	M3	M5	M7
Herbazal de Schoenoplectus californicus	T01	P	0,8%	-	-	0,2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,8%	0,0%	0,0%	0,2%
	T02	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,0%	0,0%	0,0%	0,0%
	T03	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,0%	0,0%	0,0%	0,0%
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	T19	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,0%	0,0%	0,0%	0,0%
	T29	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0,0%	0,0%	0,0%	0,0%
Herbazal de Juncus balticus	T13	LP	-	-	-	-	61,2%	60,2%	61,4%	60,8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	61,2%	60,2%	61,4%	60,8%
	T18	T	-	-	-	-	70,6%	83,0%	82,2%	80,6%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	70,6%	83,0%	82,2%	80,6%
	T30	T	-	-	-	-	63,4%	60,2%	59,2%	53,8%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	63,4%	60,2%	59,2%	53,8%
	T31	T	-	-	-	-	86,2%	88,2%	87,8%	85,4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86,2%	88,2%	87,8%	85,4%
Herbazal de Distichlis spicata	T08	P	-	-	-	-	51,0%	42,8%	0,2%	43,2%	-	-	-	-	-	-	60,0%	1,2%	-	-	-	-	-	-	-	-	51,0%	42,8%	60,2%	44,4%
	T09	P	-	-	0,2%	-	70,6%	61,6%	66,4%	47,4%	-	-	-	0,2%	-	-	-	11,0%	-	-	-	-	-	-	-	-	70,6%	61,6%	66,6%	58,6%
	T20	T	-	-	-	-	48,6%	-	54,0%	38,4%	-	-	-	-	-	-	-	1,8%	-	51,6%	-	-	-	-	-	-	48,6%	51,6%	54,0%	40,2%
	T21	T	-	-	-	-	93,6%	90,6%	91,0%	91,4%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	93,6%	90,6%	91,0%	91,4%
	T22	T	-	-	-	-	80,8%	78,2%	73,8%	83,2%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	80,8%	78,2%	73,8%	83,2%
	T26	T	-	-	-	-	-	79,6%	84,4%	-	-	-	-	-	-	-	-	-	88,4%	-	-	86,2%	-	-	-	-	88,4%	79,6%	84,4%	86,2%
	T27	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	86,4%	-	-	-	-	91,4%	88,6%	86,6%	86,4%	91,4%	88,6%	86,6%
	T28	T	-	-	-	-	68,0%	63,2%	58,0%	-	-	-	-	-	-	-	-	-	-	-	-	68,0%	-	-	-	-	68,0%	63,2%	58,0%	68,0%
Herbazal de Triglochin concinna	T10	LB	42,0%	47,2%	50,2%	49,6%	43,4%	48,0%	45,0%	29,2%	-	-	-	-	-	-	-	19,6%	-	-	-	-	-	-	-	-	85,4%	95,2%	95,2%	98,4%
	T11	LP	10,8%	7,4%	12,0%	3,8%	27,6%	17,0%	21,8%	2,0%	16,2%	21,4%	-	28,2%	-	4,4%	7,6%	25,4%	-	-	-	-	-	-	-	-	54,6%	50,2%	41,4%	59,4%
Matorral de Sarcocornia fruticosa	T12	LP	-	-	-	-	59,4%	28,8%	22,0%	14,8%	-	-	-	-	-	35,4%	38,8%	49,4%	-	-	-	-	-	-	-	-	59,4%	64,2%	60,8%	64,2%
	T15*	AQ	12,4%	3,2%	9,4%	0,2%	-	1,0%	13,6%	-	3,4%	14,2%	-	35,8%	36,8%	33,6%	33,8%	19,6%	-	-	-	-	-	-	-	-	52,6%	52,0%	56,8%	55,6%
	T16*	AQ	-	2,6%	2,4%	1,8%	2,2%	81,8%	78,0%	-	4,0%	-	-	3,4%	74,4%	-	-	77,4%	-	-	-	-	-	-	-	-	80,6%	84,4%	80,4%	82,6%
	T17*	AQ	10,2%	15,4%	13,8%	5,2%	-	32,8%	-	-	6,0%	-	-	11,0%	30,4%	-	32,0%	31,0%	-	-	-	-	-	-	-	-	46,6%	48,2%	45,8%	47,2%
Matorral de Tessaria absinthioides	T05	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	89,0%	90,8%	-	88,8%	-	-	87,0%	88,8%	89,0%	90,8%	87,0%
	T06	P	-	-	-	-	-	69,6%	-	-	-	-	-	-	-	-	-	-	-	-	69,6%	69,2%	70,0%	-	-	-	70,0%	69,6%	69,6%	69,2%
	T07	P	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	75,2%	81,4%	79,2%	71,6%	75,2%	81,4%	79,2%	71,6%
	T23	T	-	-	-	-	-	76,2%	73,8%	-	-	-	-	-	-	-	-	-	76,2%	-	-	80,0%	-	-	-	-	76,2%	76,2%	73,8%	80,0%
	T24	T	-	-	-	-	-	-	0,2%	-	-	-	-	-	-	-	-	-	44,4%	44,2%	32,8%	47,6%	-	-	-	-	44,4%	44,2%	33,0%	47,6%
	T25	T	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	69,8%	70,6%	60,2%	70,2%	-	-	-	-	69,8%	70,6%	60,2%	70,2%

*: Sector Aguas de Quelana sin muestreo estacional en Monitoreo 6 por restricciones de acceso;
Donde: Códigos sectores: P= Peine; T= Tilopozo; LP: La Punta; LB= La Brava; AQ= Aguas de Quelana.
Fuente: Elaboración propia.

Tabla N° 1-4. Cobertura promedio por sectores, para el Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7.

Subsector	No de Transectas en el sector	Promedio de la cobertura absoluta por subsector																Riqueza							
		Vegetación (%)								Vegetación muerta - Rastrojo (%)								(No. de especies)							
		MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7
La Punta y La Brava	1	39,1%	39,1%	27,8%	31,1%	29,1%	30,4%	24,5%	26,4%	1,3%	1,3%	5,9%	5,2%	4,7%	5,7%	7,7%	6,8%	6	6	6	6	7	6	6	6
Peine	9	91,8%	62,5%	77,9%	69,6%	62,5%	65,4%	72,5%	69,5%	3,1%	7,3%	8,7%	13,3%	13,5%	13,1%	17,9%	22,6%	5	5	5	5	5	5	8	7
Aguas de Quelana*	3	40,5%	40,6%	35,5%	35,4%	30,6%	33,5%	-	35,0%	1,8%	1,9%	4,3%	4,1%	7,6%	7,1%	-	4,2%	4	4	4	4	4	4	-	4
Soncor	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
Tilopozo**	14	39,9%	36,6%	33,8%	35,0%	35,4%	35,4%	30,6%	35,7%	6,2%	6,1%	11,4%	9,0%	11,3%	13,1%	18,3%	10,0%	6	6	6	6	7	6	6	6

*: Subsector Aguas de Quelana sin muestreo estacional en Monitoreo 6 por restricciones de acceso.
**: En relación a la entrega del Informe semestral M5 (invierno 2018) varían los valores del subsector Tilopozo para dicha campaña por comprobarse en M6 que el taxa Cyperaceae se trataba de una etapa vegetativa (post-incendio) de *Schoenoplectus californicus*.
Fuente: Elaboración propia.

Tabla N° 1-5. Composición de especies vasculares por sectores, para el Monitoreo Base 0, M1, M2, M3, M4, M5, M6 y M7.

Especie	Sub sector Área de estudio																													
	La Punta y La Brava								Peine								Aguas de Quelana*								Tilopozo**							
	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7
Atriplex atacamensis Phil.															x	x																
Baccharis juncea (Cass.) Desf.									x	x	x	x	x	x	x	x									x	x	x	x	x	x	x	x
Cistanthe densiflora (Barnéoud) Hershkovitz															x																	
Distichlis spicata (L.) Greene									x	x	x	x	x	x	x	x									x	x	x	x	x	x	x	x
Juncus balticus Willd.	x	x	x	x	x	x	x	x																	x	x	x	x	x	x	x	x
Lycium humile Phil.	x	x	x	x	x	x	x	x																	x	x	x	x	x	x	x	x

Especie	Sub sector Área de estudio																													
	La Punta y La Brava								Peine								Aguas de Quelana*								Tilopozo**							
	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7	MB0	M1	M2	M3	M4	M5	M6	M7
Nitrophila atacamensis (Phil.) Hieron. ex Ulbr.	x	x	x	x	x	x	x	x									x	x	x	x	x	x		x			x		x			
Puccinellia frigida (Phil.) I.M.Johnst.	x	x	x	x	x	x	x	x								x	x	x	x	x	x	x		x								
Sarcocornia fruticosa (L.) Scott	x	x	x	x		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x		x								
Schoenoplectus californicus (C.A. Mey.) Soják					x				x	x	x	x	x	x	x	x									x	x	x	x	x	x	x	x
Tessaria absinthioides (Hook. & Arn.) DC.					x				x	x	x	x	x	x	x	x									x	x	x	x	x	x	x	x
Tiquilia atacamensis (Phil.) A.T. Richardson															x																	
Triglochin concinna Davy	x	x	x	x	x	x	x	x									x	x	x	x	x	x		x								
Riqueza total por Monitoreo	6	6	6	6	7	6	6	6	5	5	5	5	5	5	8	7	4	4	4	4	4	4	-	4	6	6	7	6	7	6	6	6
Riqueza total por Sector	**8**								**9**								**4**								**7**							

*: Subsector Aguas de Quelana sin muestreo estacional en Monitoreo 6 por restricciones de acceso.
**: En relación a la entrega del Informe semestral M5 (invierno 2018) no se incluye el taxa Cyperaceae, por comprobarse en M6 que se trataba de una etapa vegetativa (post-incendio) de *Schoenoplectus californicus*, variando los valores de riqueza para el subsector de Tilopozo.

Fuente: Elaboración propia.

1.4 Metadata de imágenes satelitales – Pleiades 1A

Archivos Metadata IMG Invierno 2019:

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- 20190826_IMA_PLEIADES 1A_AGO19_NORTE_B
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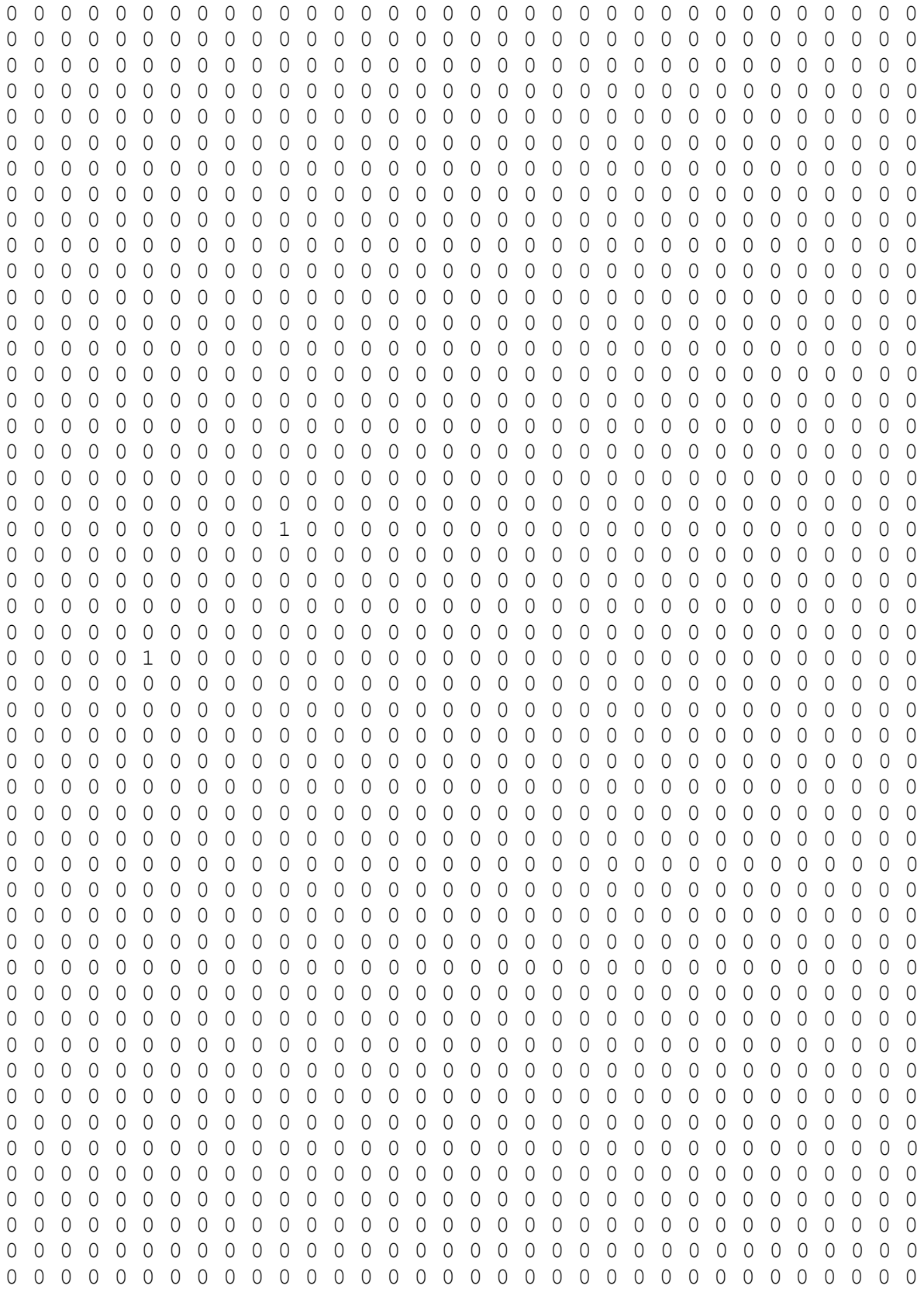

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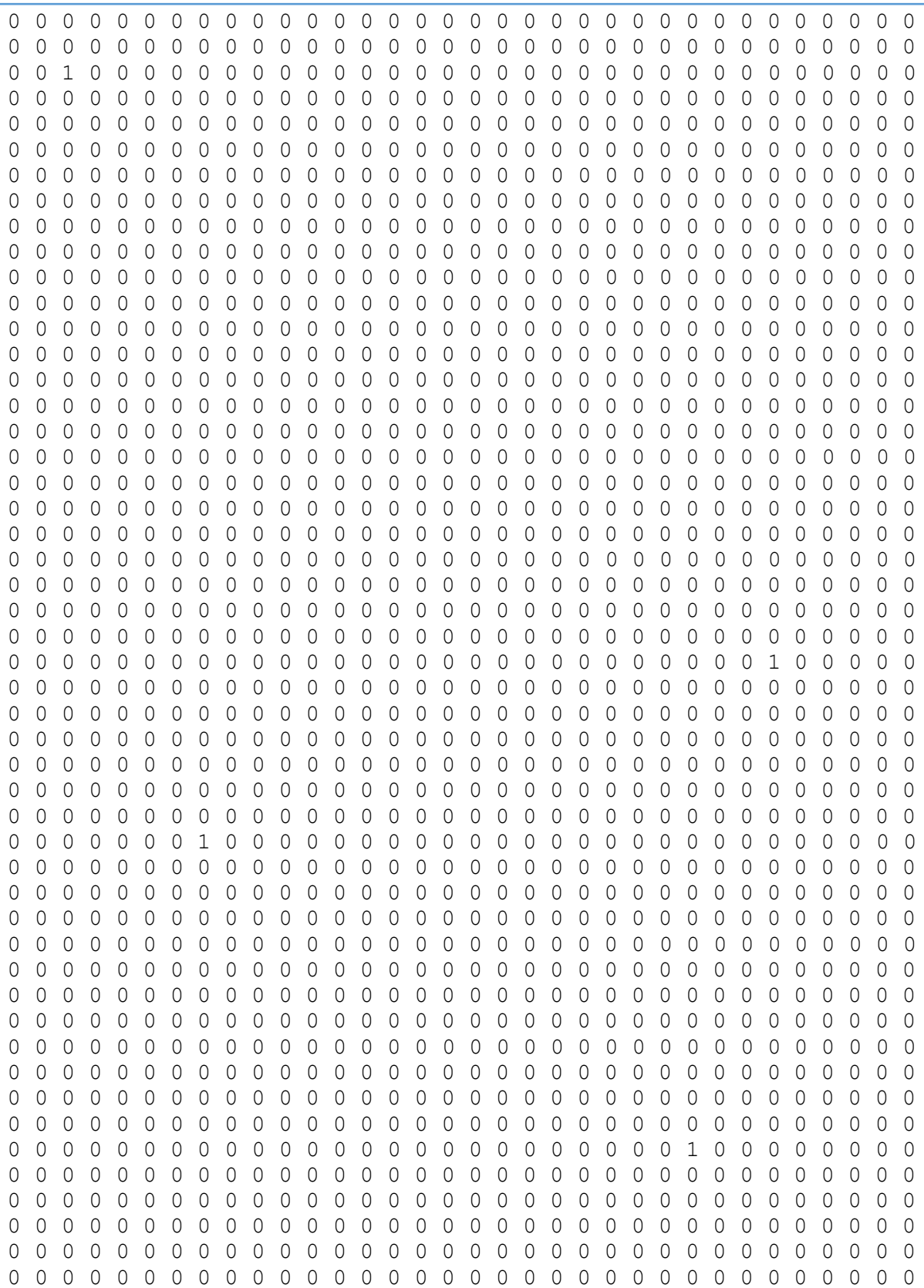

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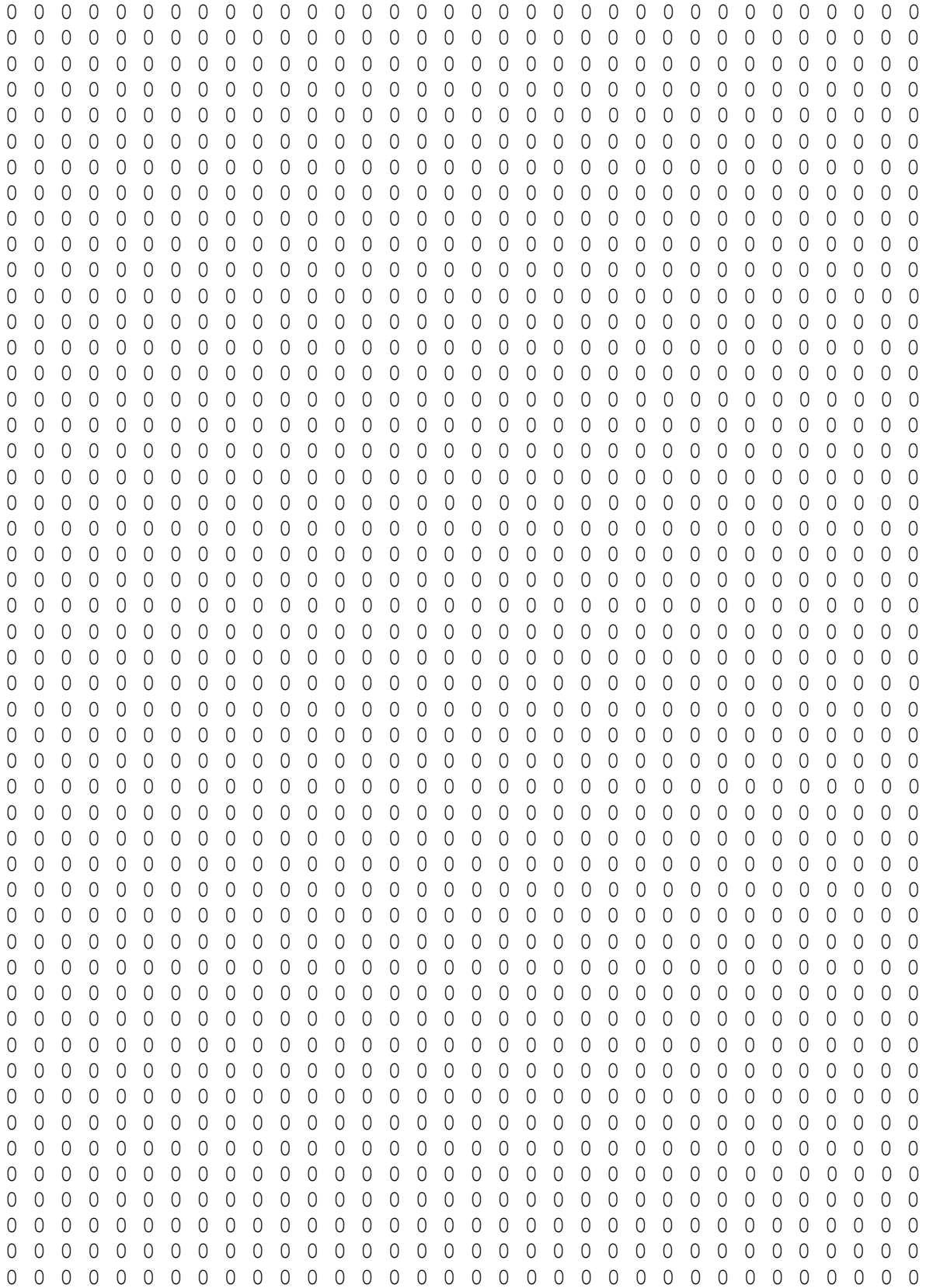

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