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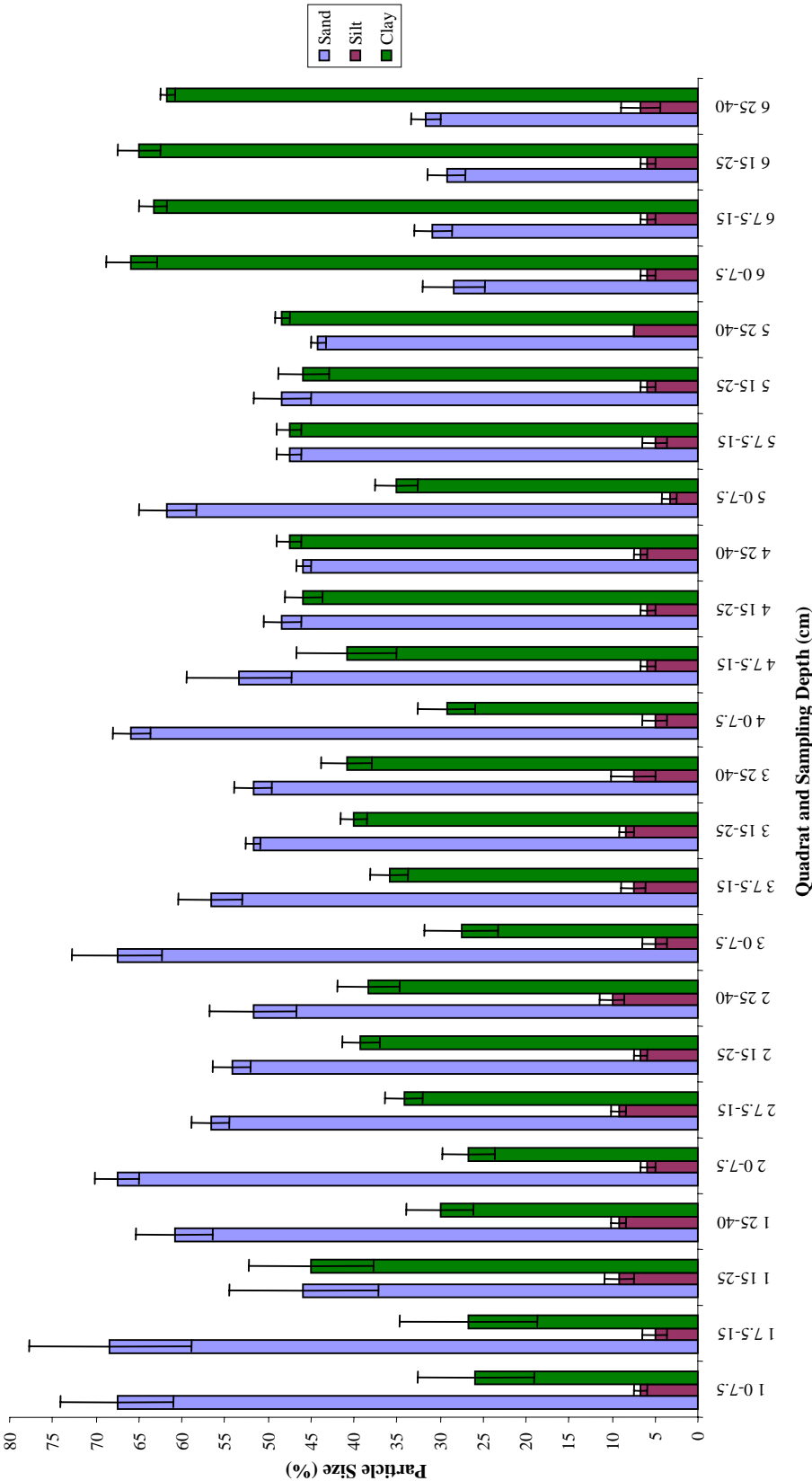
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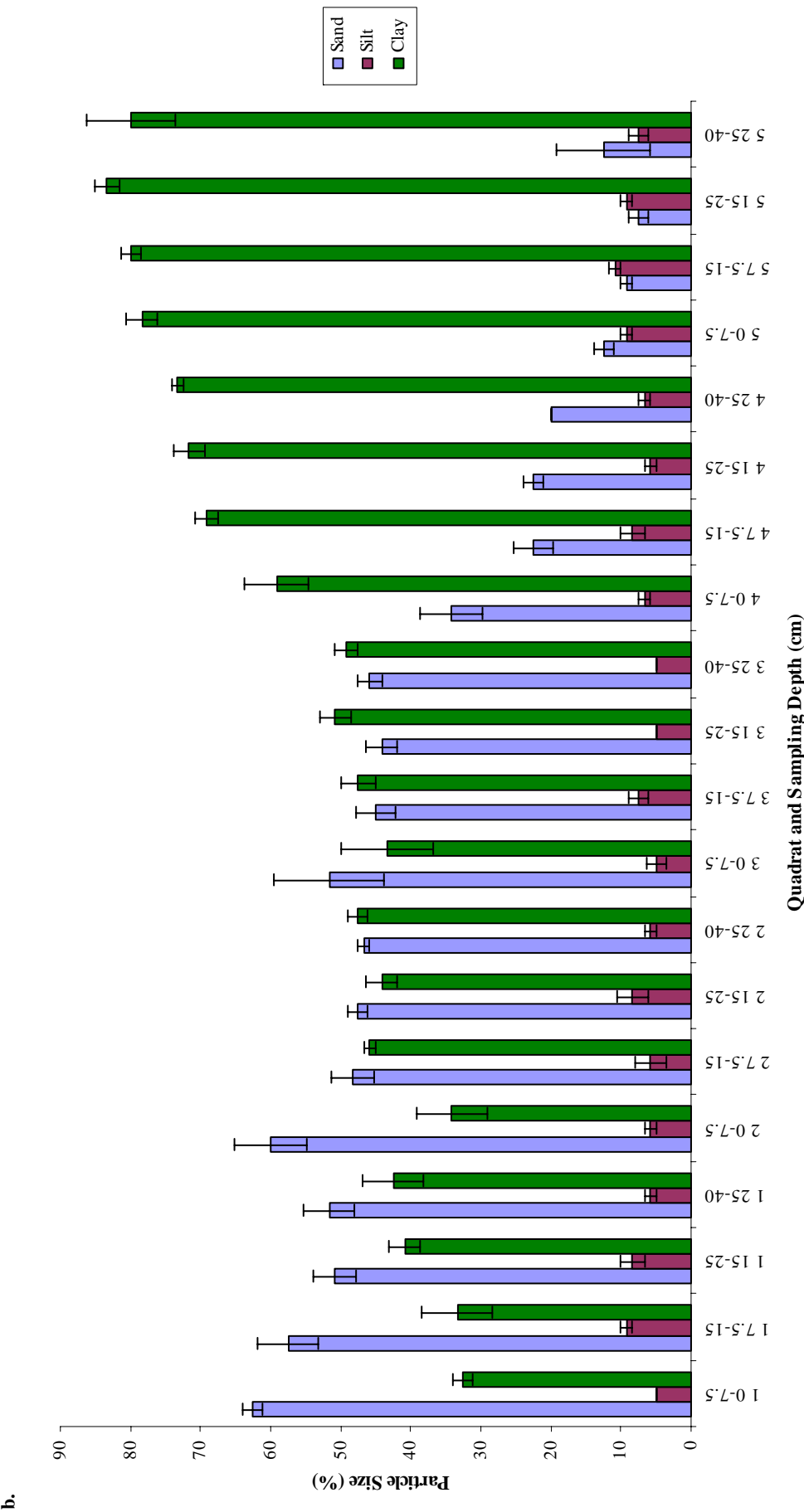
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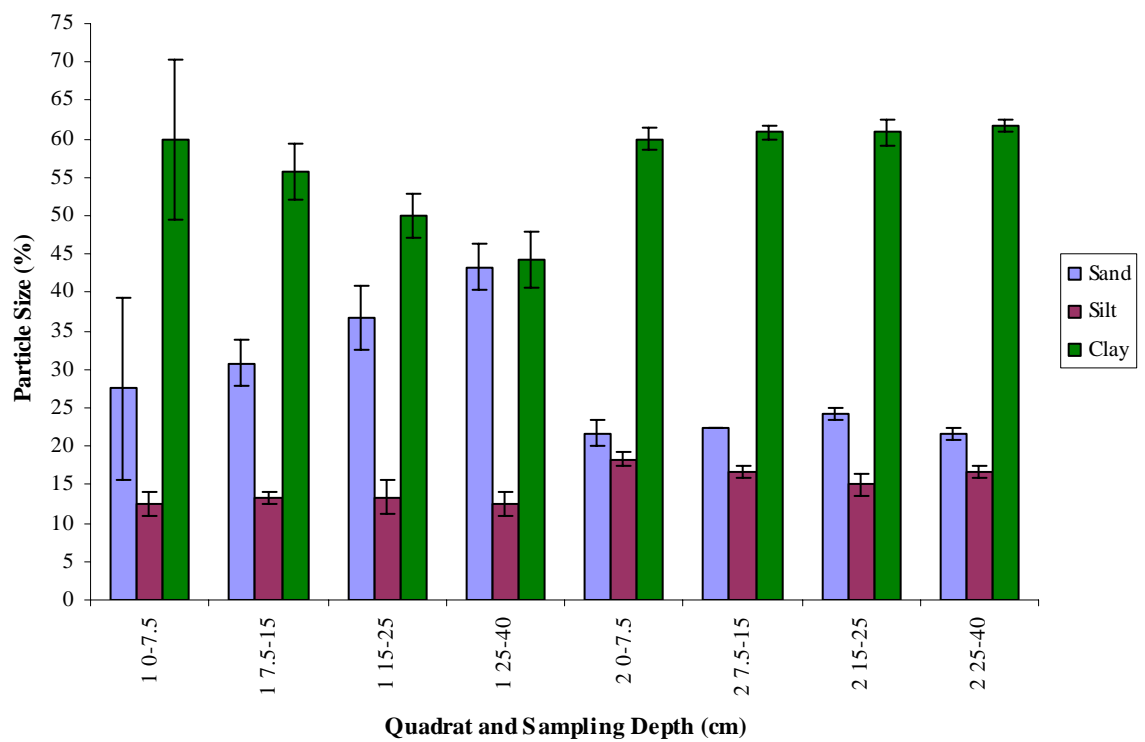
Appendices

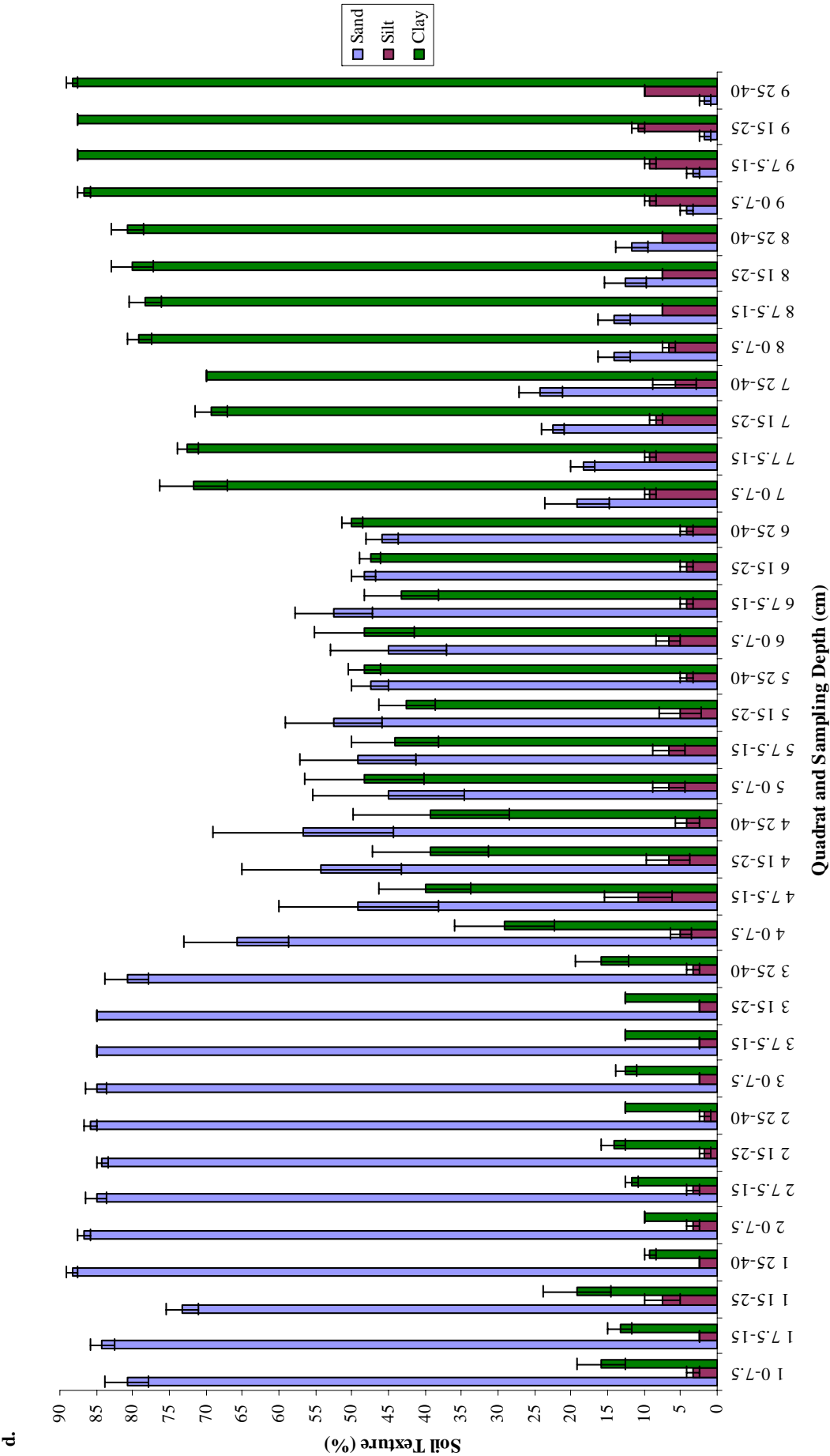
Appendix 1: Soil texture for each quadrat and sampling depth for a. Lake Malta, b. Lake Balaka, c. Lake Wetherell, d. Lake Menindee and e. Lake Cawndilla (Chapter 5).

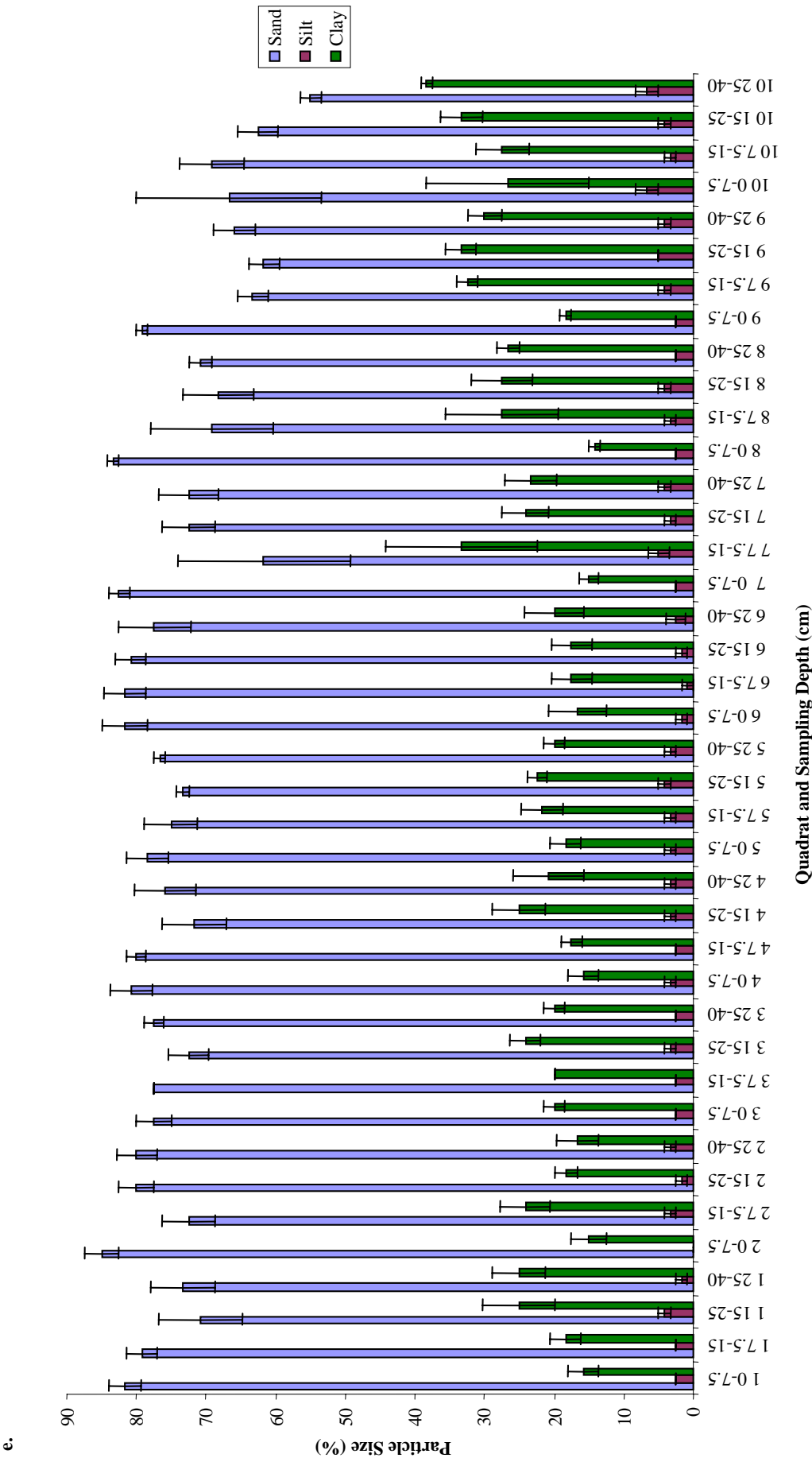
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C.





Appendix 2: Indicator species analysis summary tables for the strandline study (Chapter 3) a. Lake Cawndilla, b. Lake Menindee, c. Lake Tandure and d. Lake Malta (Type A, B or C denotes why the species was not a significant indicator (Chapter 2)).

a.

Species	Location	P
<i>Eragrostis dielsii</i>	Below Strandline	1.00 (Type A)
<i>Medicago</i> sp.	Below Strandline	1.00 (Type A)
<i>Morgania floribunda</i>	Below Strandline	0.515 (Type B)
<i>Polygonum aviculare</i>	Below Strandline	1.00 (Type A)
<i>Gnaphalium luteo-album</i>	High Elevation	0.54 (Type A)
<i>Limosella australis</i>	Low Elevation	1.00 (Type A)
<i>Wahlenbergia communis</i>	Low Elevation	1.00 (Type A)
<i>Alisma</i> sp.	Strandline	0.175 (Type A)
<i>Alternanthera denticulata</i>	Strandline	0.021
<i>Argemone ochroleuca</i>	Strandline	1.00 (Type A)
<i>Centipeda minima</i>	Strandline	1.00 (Type A)
<i>Chenopodium pumilio</i>	Strandline	0.044
<i>Crassula sieberana</i>	Strandline	1.00 (Type A)
<i>Cyperus gymnocaulos</i>	Strandline	0.019
<i>Epilates australis</i>	Strandline	1.00 (Type A)
<i>Eucalyptus largiflorens</i>	Strandline	0.175 (Type A)
<i>Euphorbia drummondii</i>	Strandline	1.00 (Type A)
<i>Glinus lotoides</i>	Strandline	1.00 (Type A)
<i>Heliotropium curassavicum</i>	Strandline	0.009
<i>Iseotopsis graminifolia</i>	Strandline	1.00 (Type A)
<i>Lemna</i> sp.	Strandline	1.00 (Type A)
<i>Ludwigia peploides</i>	Strandline	0.021
<i>Myriocephalus stuartii</i>	Strandline	0.021
<i>Nicotiana velutino</i>	Strandline	1.00 (Type A)
<i>Pachychornia tenuis</i>	Strandline	1.00 (Type A)
<i>Polygonum plebium</i>	Strandline	0.21 (Type B)
<i>Rumex bidens</i>	Strandline	0.021
<i>Senecio</i> sp.	Strandline	0.021
<i>Solanum karsensis</i>	Strandline	1.00 (Type A)
<i>Solanum oligacanthum</i>	Strandline	0.21 (Type A)
<i>Sporobolus mitchelli</i>	Strandline	0.182 (Type A)
<i>Tetragonia tetragonoides</i>	Strandline	0.184 (Type A)
Unknown dicot 1	Strandline	0.175 (Type A)
<i>Xanthium occidentale</i>	Strandline	0.289 (Type A)

b.

Species	Location	P
<i>Chenopodium pumilio</i>	Below Strandline	0.524 (Type B)
<i>Hypochoeris radicata</i>	High Elevation	1.00 (Type A)
<i>Wahlenbergia communis</i>	High Elevation	1.00 (Type A)
<i>Polygonum aviculare</i>	Low Elevation	1.00 (Type A)
<i>Alisma</i> sp.	Strandline	1.00 (Type A)
<i>Alternanthera denticulata</i>	Strandline	0.021
<i>Argemone ochroleuca</i>	Strandline	0.184 (Type A)
<i>Cyperus gymnocaulos</i>	Strandline	0.021
<i>Epiltes australis</i>	Strandline	0.224 (Type B)
<i>Eragrostis dielsii</i>	Strandline	1.00 (Type A)
<i>Euphorbia drummondii</i>	Strandline	1.00 (Type A)
<i>Galenia secunda</i>	Strandline	1.00 (Type A)
<i>Gnaphalium luteo-album</i>	Strandline	1.00 (Type A)
<i>Heliotropium curassivicum</i>	Strandline	0.021
<i>Ludwigia peploides</i>	Strandline	0.021
<i>Morgania floribunda</i>	Strandline	0.012
<i>Myriocephalus stuartii</i>	Strandline	1.00 (Type A)
<i>Persicaria lapathifolium</i>	Strandline	1.00 (Type A)
<i>Ricinis communis</i>	Strandline	0.184 (Type A)
<i>Rumex bidens</i>	Strandline	0.184 (Type A)
<i>Rumex crispus</i>	Strandline	1.00 (Type A)
<i>Senecio</i> sp.	Strandline	1.00 (Type A)
<i>Solanum oligacanthum</i>	Strandline	0.184 (Type A)
<i>Sporobolus mitchelli</i>	Strandline	1.00 (Type A)
<i>Xanthium occidentale</i>	Strandline	0.021

C.

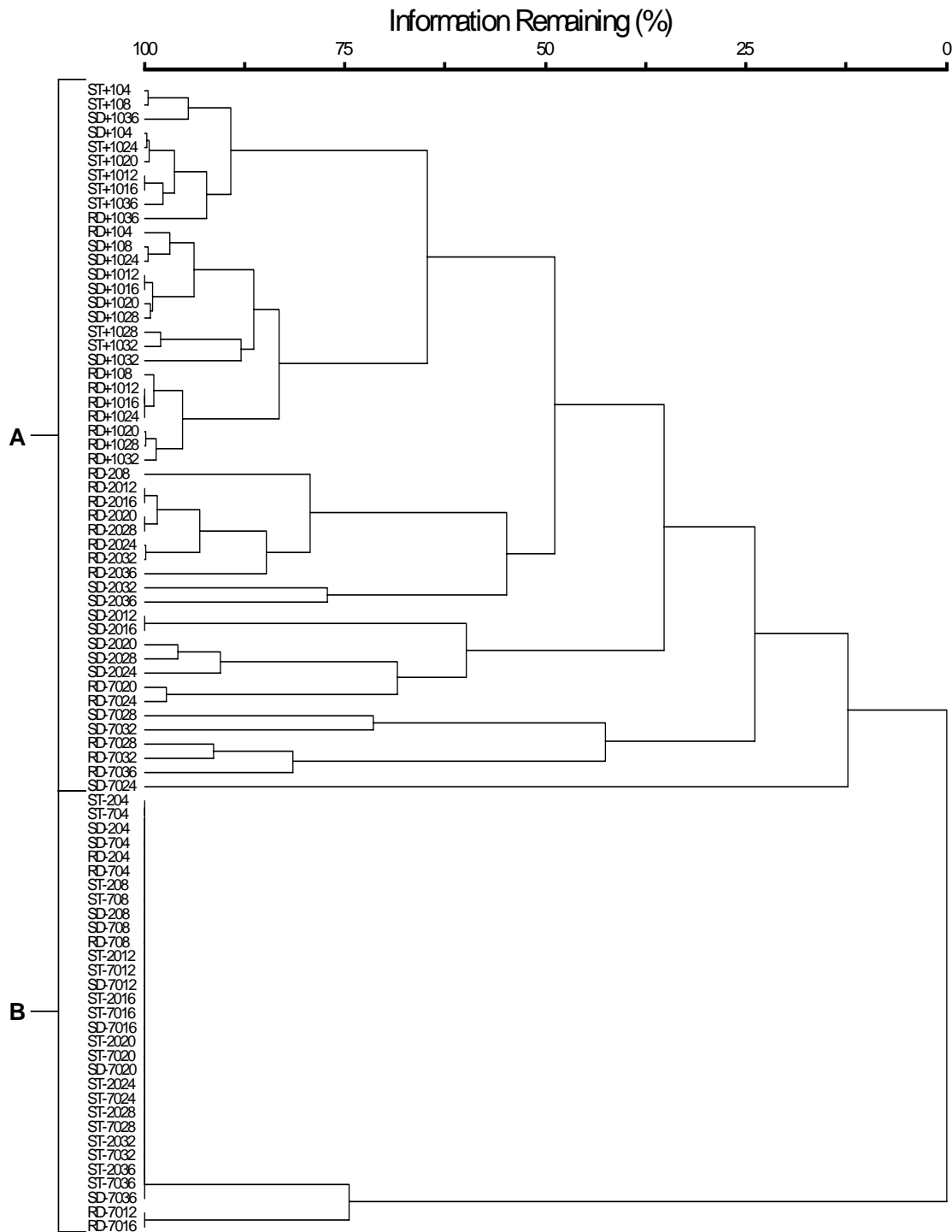
Species	Location	P
<i>Chenopodium pumilio</i>	Below Strandline	0.662 (Type B)
<i>Gnaphalium luteo-album</i>	Below Strandline	0.133 (Type C)
<i>Azolla</i> sp.	High Elevation	1.00 (Type A)
<i>Crassula sieberana</i>	High Elevation	0.187 (Type C)
<i>Cyperus gymnocaulos</i>	High Elevation	0.77 (Type A)
<i>Eucalyptus largiflorens</i>	High Elevation	1.00 (Type A)
<i>Morgania floribunda</i>	High Elevation	1.00 (Type A)
<i>Nicotiana glauca</i>	High Elevation	1.00 (Type A)
<i>Nicotiana velutino</i>	High Elevation	0.194 (Type A)
<i>Sporobolus mitchelli</i>	High Elevation	1.00 (Type A)
<i>Limosella australis</i>	Low Elevation	1.00 (Type A)
<i>Alternanthera denticulata</i>	Strandline	0.014
<i>Centipeda minima</i>	Strandline	0.054 (Type B)
<i>Chloris truncata</i>	Strandline	1.00 (Type A)
<i>Epilates australis</i>	Strandline	1.00 (Type A)
<i>Eragrostis dielsii</i>	Strandline	0.729 (Type A)
<i>Eragrostis parvifolia</i>	Strandline	1.00 (Type A)
<i>Haloragis aspera</i>	Strandline	0.504 (Type A)
<i>Heliotropium amplexicaule</i>	Strandline	1.00 (Type A)
<i>Heliotropium curassivicum</i>	Strandline	1.00 (Type A)
<i>Juncus aridicola</i>	Strandline	0.17 (Type A)
<i>Ludwigia peploides</i>	Strandline	0.021
<i>Medicago</i> spp.	Strandline	1.00 (Type A)
<i>Myriocephalus stuartii</i>	Strandline	0.513 (Type A)
<i>Persicaria lapathifolium</i>	Strandline	0.021
<i>Polygonum plebium</i>	Strandline	1.00 (Type A)
<i>Ptilotus obovatus</i>	Strandline	1.00 (Type A)
<i>Rumex bidens</i>	Strandline	1.00 (Type A)
<i>Rumex crispus</i>	Strandline	1.00 (Type A)
<i>Schlerolaena</i> sp.	Strandline	1.00 (Type A)
<i>Tetragonia tetragonoides</i>	Strandline	0.129 (Type A)
<i>Xanthium occidentale</i>	Strandline	1.00 (Type A)

d.

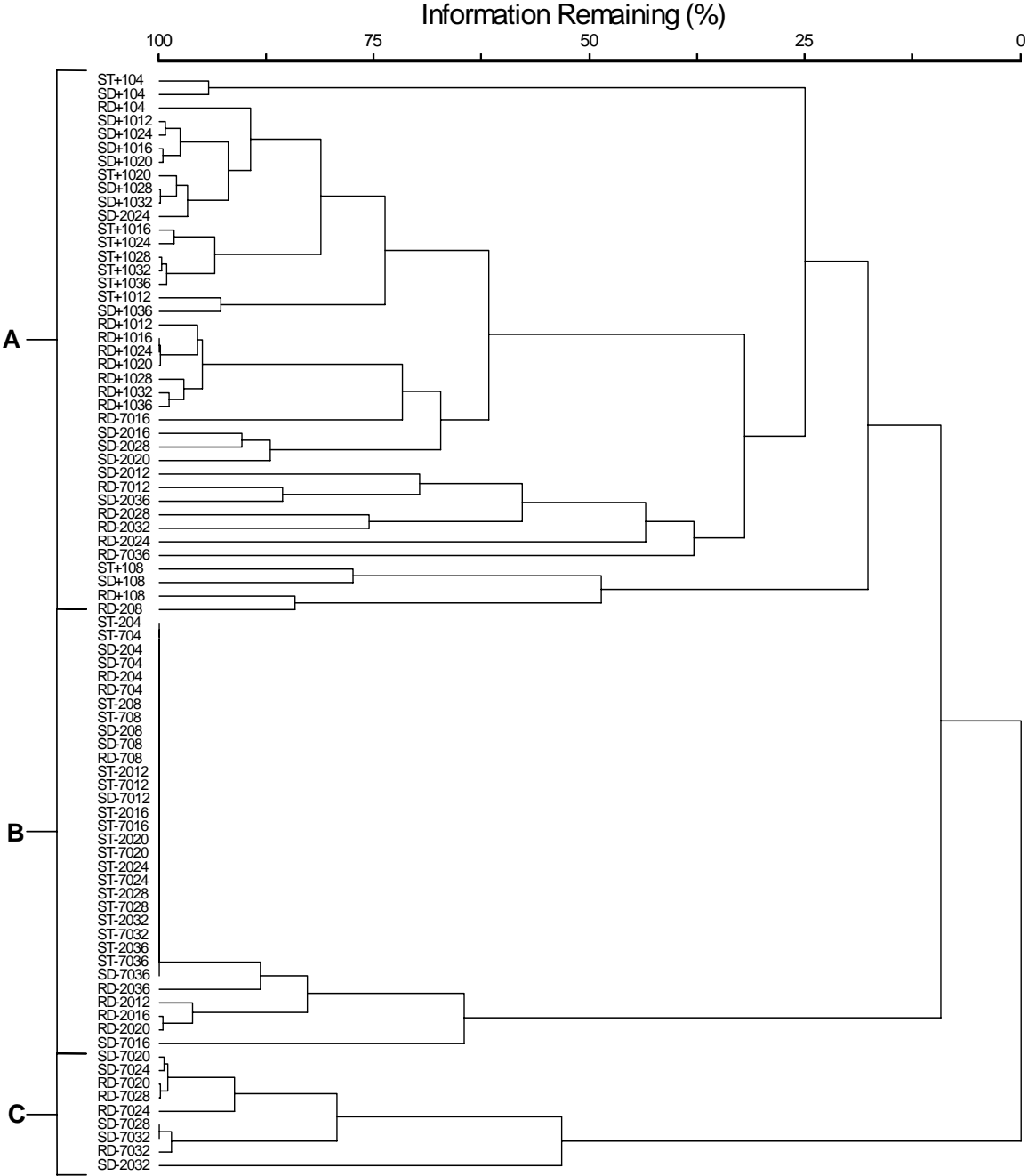
Species	Location	P
<i>Chenopodium pumilio</i>	Below Strandline	0.386 (Type B)
<i>Eragrostis parvifolia</i>	Below Strandline	0.191 (Type A)
<i>Myriophyllum verrucosum</i>	Below Strandline	1.00 (Type A)
<i>Polygonum plebium</i>	Below Strandline	0.329 (Type B)
<i>Solanum oligacanthum</i>	Below Strandline	0.511 (Type A)
<i>Alisma</i> sp.	High Elevation	1.00 (Type A)
<i>Convolvulus arvensis</i>	High Elevation	0.528 (Type A)
<i>Crassula sieberana</i>	High Elevation	0.048
<i>Eragrostis dielsii</i>	High Elevation	1.00 (Type A)
<i>Euphorbia drummondii</i>	High Elevation	0.159 (Type A)
<i>Galenia secunda</i>	High Elevation	1.00 (Type A)
<i>Heliotropium europaeum</i>	High Elevation	0.062 (Type C)
<i>Isolepis australiensis</i>	High Elevation	0.194 (Type A)
<i>Mollogo cerviana</i>	High Elevation	0.703 (Type B)
<i>Nicotiana glauca</i>	High Elevation	1.00 (Type A)
<i>Rumex bidens</i>	High Elevation	1.00 (Type A)
<i>Cyperus gymnocaulos</i>	Low Elevation	0.23 (Type C)
<i>Iseotopsis graminifolia</i>	Low Elevation	0.063 (Type C)
<i>Alternanthera denticulata</i>	Strandline	0.021
<i>Ammania multiflora</i>	Strandline	0.037
<i>Centipeda minima</i>	Strandline	0.021
<i>Daucus glochidiatus</i>	Strandline	1.00 (Type A)
<i>Epaltis australis</i>	Strandline	0.42 (Type B)
<i>Glinus lotoides</i>	Strandline	0.668 (Type C)
<i>Gnaphalium luteo-album</i>	Strandline	0.021
<i>Haloragis aspera</i>	Strandline	0.266 (Type C)
<i>Heliotropium amplexicaule</i>	Strandline	0.266 (Type A)
<i>Limosella australis</i>	Strandline	0.292 (Type B)
<i>Medicago</i> spp.	Strandline	0.021
<i>Morgania floribunda</i>	Strandline	0.16 (Type B)
<i>Myosurus minima</i>	Strandline	0.021
<i>Myriocephalus stuartii</i>	Strandline	1.00 (Type A)
<i>Polygonum aviculare</i>	Strandline	1.00 (Type A)
<i>Rumex crispus</i>	Strandline	0.184 (Type C)
<i>Scleroblitum atriplicinum</i>	Strandline	0.021
<i>Sporobolus mitchelli</i>	Strandline	0.511 (Type B)
<i>Tetragonia tetragonoides</i>	Strandline	1.00 (Type A)
Unknown dicot 1	Strandline	1.00 (Type A)
<i>Wahlenbergia communis</i>	Strandline	0.216 (Type B)

Appendix 3: Group average clustering dendrogram of each hydrology, elevation and sampling time for the a. Lake Cawndilla, b. Lake Menindee, c. Lake Wetherell, d. Lake Balaka and e. Lake Malta seed bank (ST = static, SD = slow drawdown, RD = rapid drawdown, +10, -20 or -70 = elevation and 4, 8, 12, 16, 20, 24, 28, 32 or 36 = sampling time in weeks) (Chapter 4).

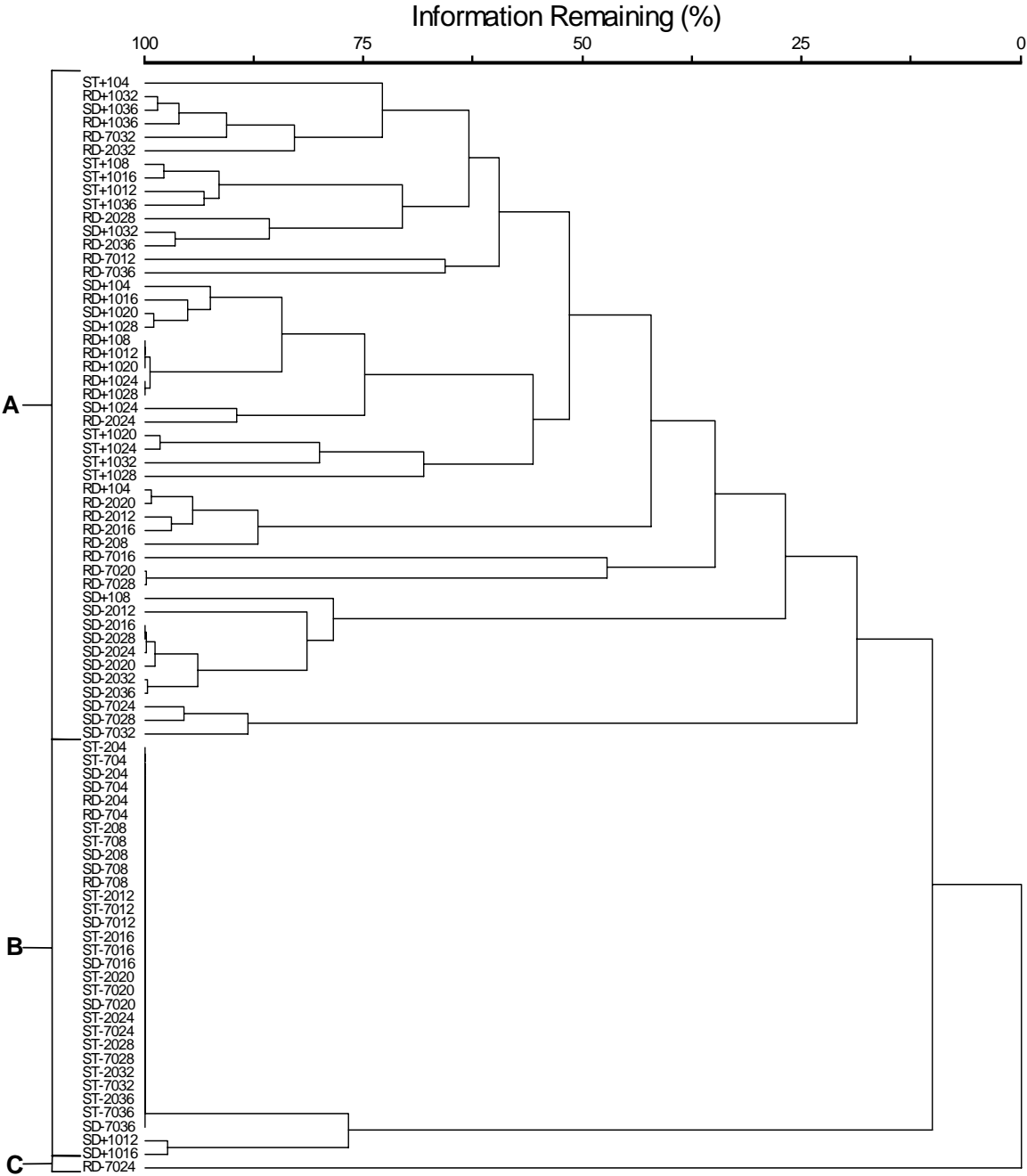
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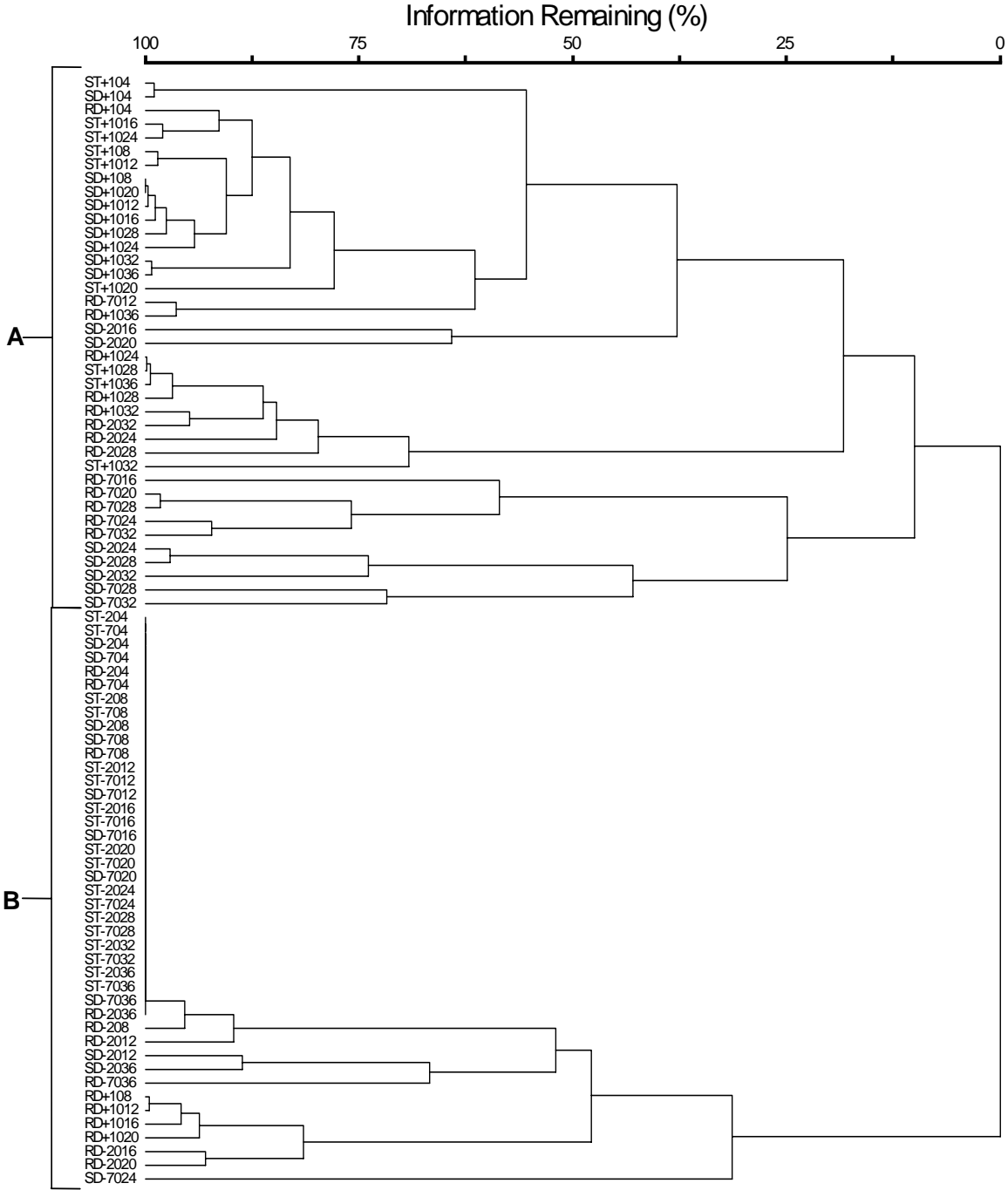
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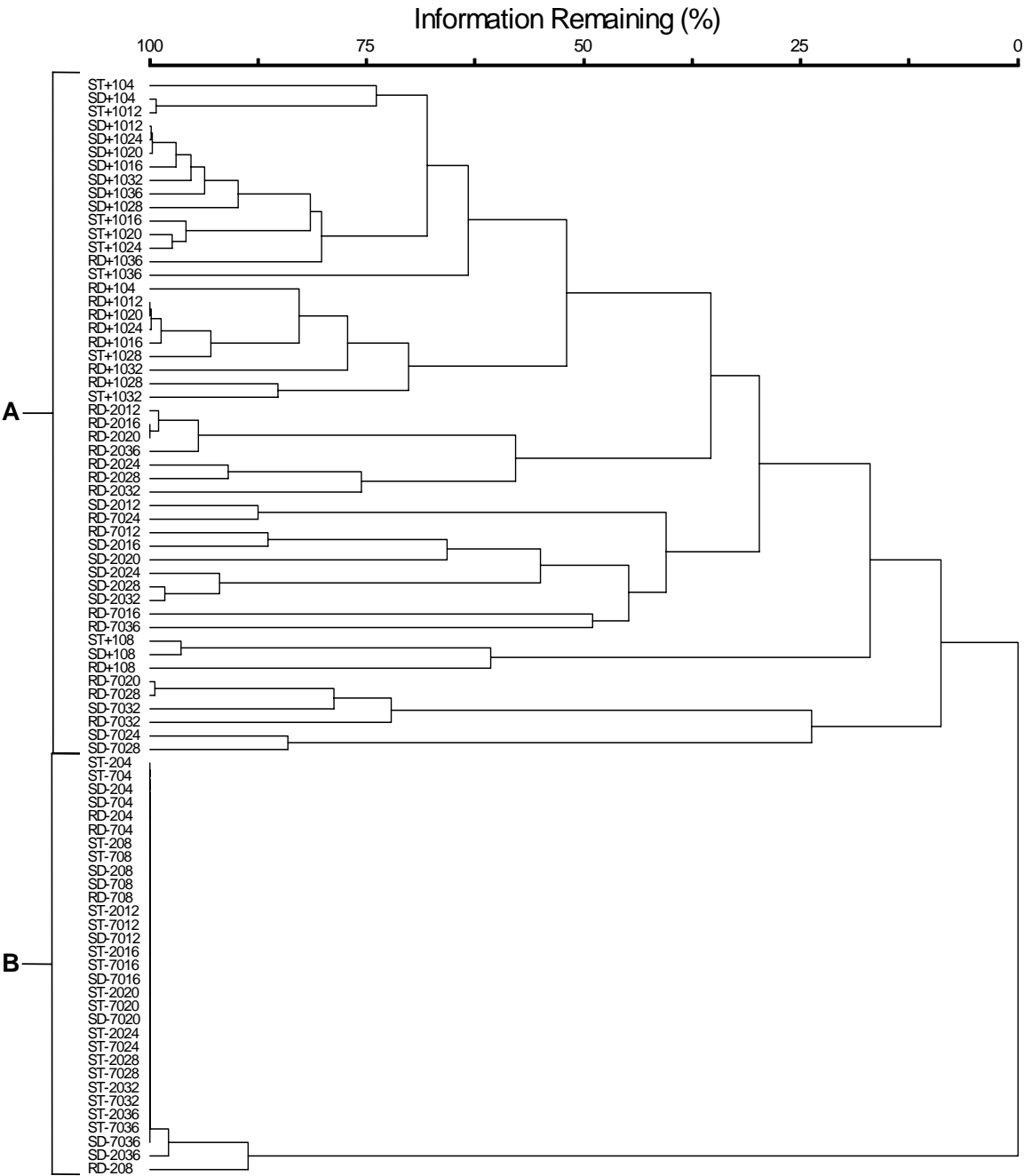
C.



d.



e.



Appendix 4: Indicator species analysis of the a. Lake Cawndilla, b. Lake Menindee, c. Lake Wetherell, d. Lake Balaka and e. Lake Malta seed bank (Type A, B or C denotes why the species was not a significant indicator (Chapter 2)) (Chapter 4).

a.

Species	Group	P
<i>Alisma</i> sp.	A	0.547 (Type A)
<i>Alternanthera denticulata</i>	A	0.001
<i>Argemone ochroleuca</i>	A	0.001
<i>Centipeda minima</i>	A	0.001
<i>Cyperus gymnocaulos</i>	A	0.001
<i>Epiltes australis</i>	A	0.001
<i>Euphorbia drummondii</i>	A	1.00 (Type A)
<i>Gnaphalium luteo-album</i>	A	0.38 (Type A)
<i>Heliotropium curassivicum</i>	A	0.001
<i>Juncus aridicola</i>	A	0.522 (Type A)
<i>Limosella australis</i>	A	0.061 (Type q)
<i>Ludwigia peploides</i>	A	1.00 (Type A)
<i>Medicago</i> spp.	A	0.021
<i>Mollogo cerviana</i>	A	0.148 (Type A)
<i>Morgania floribunda</i>	A	0.001
<i>Polygonum plebium</i>	A	1.00 (Type A)
<i>Rumex bidens</i>	A	1.00 (Type A)
<i>Sporobolus mitchelli</i>	A	1.00 (Type A)
<i>Xanthium occidentale</i>	A	0.001
Bare Soil	B	0.001

b.

Species	Group	P
<i>Alternanthera denticulata</i>	A	0.001
<i>Ammania multiflora</i>	C	0.003
<i>Argemone ochroleuca</i>	C	0.516 (Type A)
<i>Centipeda minima</i>	C	0.001
<i>Chenopodium pumilio</i>	A	1.00 (Type A)
<i>Cyperus gymnocaulos</i>	A	0.625 (Type A)
<i>Eragrostis australasica</i>	A	0.138 (Type A)
<i>Epaltès australis</i>	A	0.001
<i>Gnaphalium luteo-album</i>	C	0.001
<i>Heliotropium curassivicum</i>	A	0.005
<i>Juncus aridicola</i>	A	0.595 (Type A)
<i>Limosella australis</i>	C	0.001
<i>Ludwigia peploides</i>	A	1.00 (Type A)
<i>Medicago</i> spp.	A	0.03
<i>Mollogo cerviana</i>	C	0.346 (Type A)
<i>Morgania floribunda</i>	A	0.001
<i>Nicotiana glauca</i>	A	0.055 (Type A)
<i>Polygonum plebium</i>	C	0.484 (Type A)
<i>Sporobolus mitchelli</i>	C	0.017
Bare Soil	B	0.001

C.

Species	Group	P
<i>Alisma</i> sp.	A	1.00 (Type A)
<i>Alternanthera denticulata</i>	A	0.001
<i>Ammania multiflora</i>	A	0.154 (Type A)
<i>Centipeda minima</i>	A	0.001
<i>Cyperus gymnocaulos</i>	A	0.149 (Type A)
<i>Eragrostis parvifolia</i>	A	0.546 (Type A)
<i>Epaltes australis</i>	A	0.031
<i>Galenia secunda</i>	A	0.023
<i>Gnaphalium luteo-album</i>	A	0.052 (Type A)
<i>Iseotopsis graminifolia</i>	A	1.00 (Type A)
<i>Juncus aridicola</i>	C	0.005
<i>Limosella australis</i>	A	0.10 (Type A)
<i>Ludwigia peploides</i>	A	0.001
<i>Marsilea</i> sp.	A	0.055 (Type A)
<i>Medicago</i> spp.	A	0.004
<i>Mollogo cerviana</i>	A	0.287 (Type A)
<i>Morgania floribunda</i>	A	0.078 (Type A)
<i>Myosurus minima</i>	A	1.00 (Type A)
<i>Myriophyllum verrucosum</i>	A	1.00 (Type A)
<i>Persicaria lapathifolium</i>	A	0.147 (Type A)
<i>Polygonum plebium</i>	A	0.152 (Type A)
<i>Sporobolus mitchelli</i>	A	1.00 (Type A)
<i>Tetragonia tetragonoides</i>	A	1.00 (Type A)
<i>Typha domingensis</i>	A	0.003
Bare Soil	B	0.001

d.

Species	Group	P
<i>Alternanthera denticulata</i>	A	0.162 (Type A)
<i>Ammania multiflora</i>	A	0.052 (Type A)
<i>Centipeda minima</i>	A	0.001
<i>Cyperus gymnocaulos</i>	A	0.24 (Type A)
<i>Epaltes australis</i>	A	0.001
<i>Euphorbia drummondii</i>	A	0.485 (Type A)
<i>Galenia secunda</i>	A	0.47 (Type A)
<i>Gnaphalium luteo-album</i>	A	0.004
<i>Hypochoeris radicata</i>	A	0.481 (Type A)
<i>Iseotopsis graminifolia</i>	A	0.038
<i>Juncus aridicola</i>	B	0.484 (Type B)
<i>Limosella australis</i>	A	0.003
<i>Medicago</i> spp.	A	0.001
<i>Mollogo cerviana</i>	A	0.22 (Type A)
<i>Morgania floribunda</i>	A	0.001
<i>Myriophyllum verrucosum</i>	A	0.488 (Type B)
<i>Polygonum plebium</i>	A	0.001
<i>Xanthium occidentale</i>	A	0.504 (Type A)
Bare Soil	B	0.001

e.

Species	Group	P
<i>Ammania multiflora</i>	A	0.007
<i>Centipeda minima</i>	A	0.001
<i>Chenopodium pumilio</i>	A	0.048
<i>Cyperus gymnocaulos</i>	A	0.078 (Type A)
<i>Eragrostis australasica</i>	A	0.126 (Type A)
<i>Eragrostis dielsii</i>	A	0.542 (Type A)
<i>Eragrostis parvifolia</i>	A	0.036
<i>Epaltes australis</i>	A	0.001
<i>Gnaphalium luteo-album</i>	A	0.001
<i>Haloragis aspera</i>	A	1.00 (Type A)
<i>Heliotropium curassivicum</i>	A	1.00 (Type A)
<i>Iseotopsis graminifolia</i>	A	0.275 (Type A)
<i>Juncus aridicola</i>	A	1 (Type A)
<i>Limosella australis</i>	A	0.006
<i>Ludwigia peploides</i>	A	1.00 (Type A)
<i>Medicago</i> spp.	A	0.001
<i>Mollogo cerviana</i>	A	0.036
<i>Morgania floribunda</i>	A	0.001
<i>Polygonum plebium</i>	A	0.081 (Type A)
<i>Sporobolus mitchelli</i>	A	0.001
<i>Tetragonia tetragonoides</i>	A	1.00 (Type A)
Bare Soil	B	0.001

Appendix 5: Sediment exposure time for each quadrat and survey in a. Lake Malta, b. Lake Balaka, c. Lake Wetherell, d. Lake Menindee and e. Lake Cawndilla (Chapter 5).

a.

Survey Date	Code	Quadrat and No. Days Exposed					
		1	2	3	4	5	6
November 2001	1101	19	0	0	0	0	0
December 2001	1201	49	20	0	0	0	0
January 2002	0102	80	51	17	0	0	0
February 2002	0202	111	82	48	29	0	0
March 2002	0302	139	110	76	57	34	0
April 2002	0402	170	141	107	88	65	10
May 2002	0502	210	181	147	128	105	50
August 2002	0802	290	261	227	208	185	130
November 2002	1102	380	351	317	298	275	220
February 2003	0203	470	441	407	388	365	310

b.

Survey Date	Code	Quadrat and No. Days Exposed				
		1	2	3	4	5
November 2001	1101	19	0	0	0	0
December 2001	1201	56	35	0	0	0
January 2002	0102	87	66	20	0	0
February 2002	0202	118	97	51	20	0
March 2002	0302	146	125	79	48	20
April 2002	0402	177	156	110	79	51
May 2002	0502	222	201	155	124	96
August 2002	0802	302	281	235	204	176
November 2002	1102	392	371	325	294	266
February 2003	0203	482	461	415	384	356

c.

Survey Date	Code	Quadrat and No. Days Exposed	
		1	2
November 2001	1101	33	0
December 2001	1201	73	Not sampled
January 2002	0102	104	Not sampled
February 2002	0202	135	Not sampled
March 2002	0302	163	Not sampled
April 2002	0402	203	Not sampled
November 2002	1102	416	372
February 2003	0203	506	462

d.

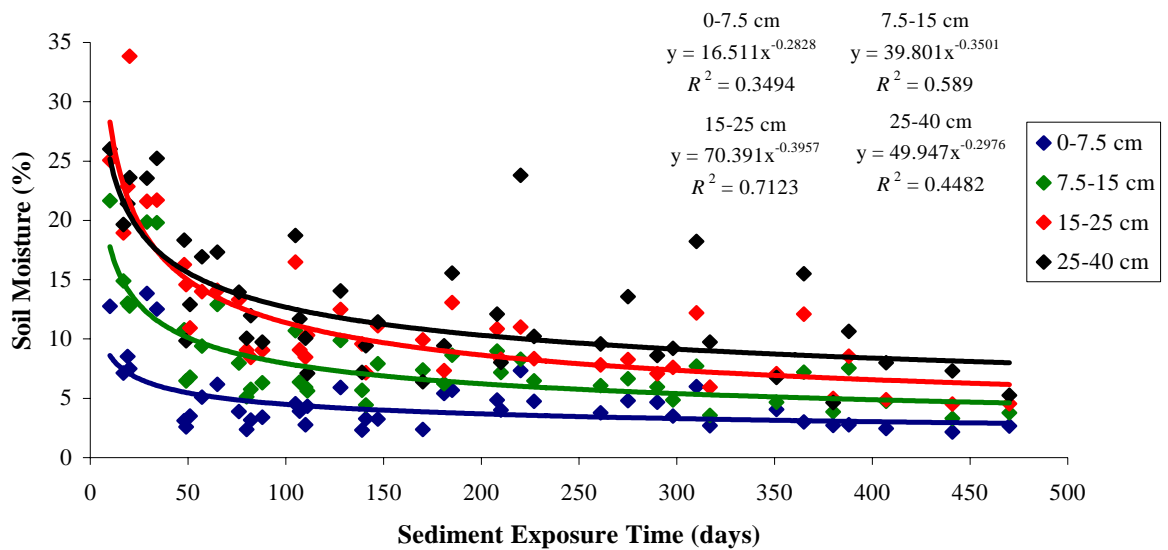
Survey Date	Code	Quadrat and No. Days Exposed								
		1	2	3	4	5	6	7	8	9
November 2001	1101	33	0	0	0	0	0	0	0	0
December 2001	1201	73	9	0	0	0	0	0	0	0
January 2002	0102	104	40	7	0	0	0	0	0	0
February 2002	0202	135	71	38	5	0	0	0	0	0
March 2002	0302	163	99	66	33	21	0	0	0	0
April 2002	0402	194	130	97	64	52	23	0	0	0
May 2002	0502	234	170	137	104	92	63	42	0	0
August 2002	0802	314	250	217	184	172	143	122	26	0
November 2002	1102	404	340	307	274	262	233	212	116	70
February 2003	0203	494	430	397	364	352	323	302	206	160

e.

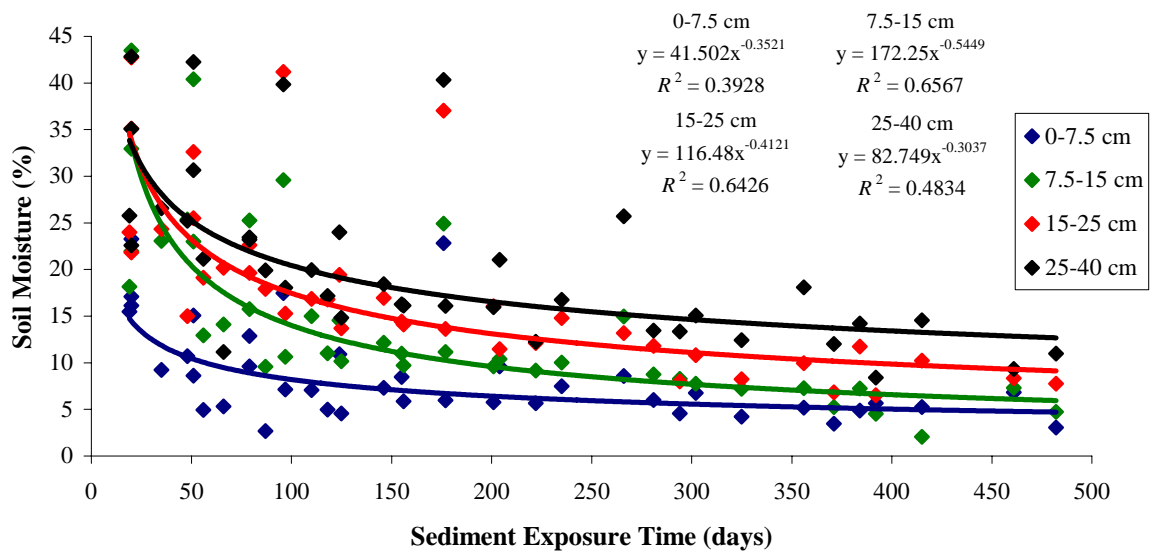
Survey Date	Code	Quadrat and No. Days Exposed									
		1	2	3	4	5	6	7	8	9	10
November 2001	1101	33	0	0	0	0	0	0	0	0	0
December 2001	1201	73	35	0	0	0	0	0	0	0	0
January 2002	0102	104	66	5	0	0	0	0	0	0	0
February 2002	0202	135	97	36	30	0	0	0	0	0	0
March 2002	0302	163	125	64	58	21	0	0	0	0	0
April 2002	0402	194	156	95	89	52	24	0	0	0	0
May 2002	0502	234	196	135	129	92	64	38	0	0	0
August 2002	0802	309	271	210	204	167	139	113	10	0	0
November 2002	1102	399	361	300	294	257	229	203	100	21	0
February 2003	0203	479	441	380	374	337	309	283	180	101	20

Appendix 6: Relationship between sediment exposure time and soil moisture content for each sampling depth for a. Lake Malta, b. Lake Balaka, c. Lake Wetherell, D. Lake Menindee and e. Lake Cawndilla.

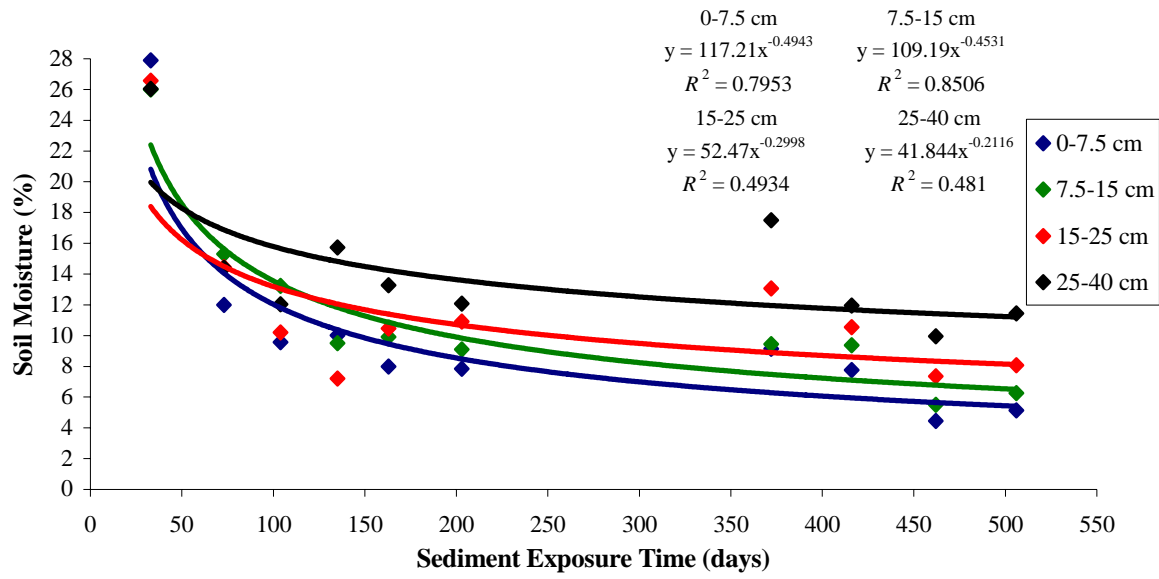
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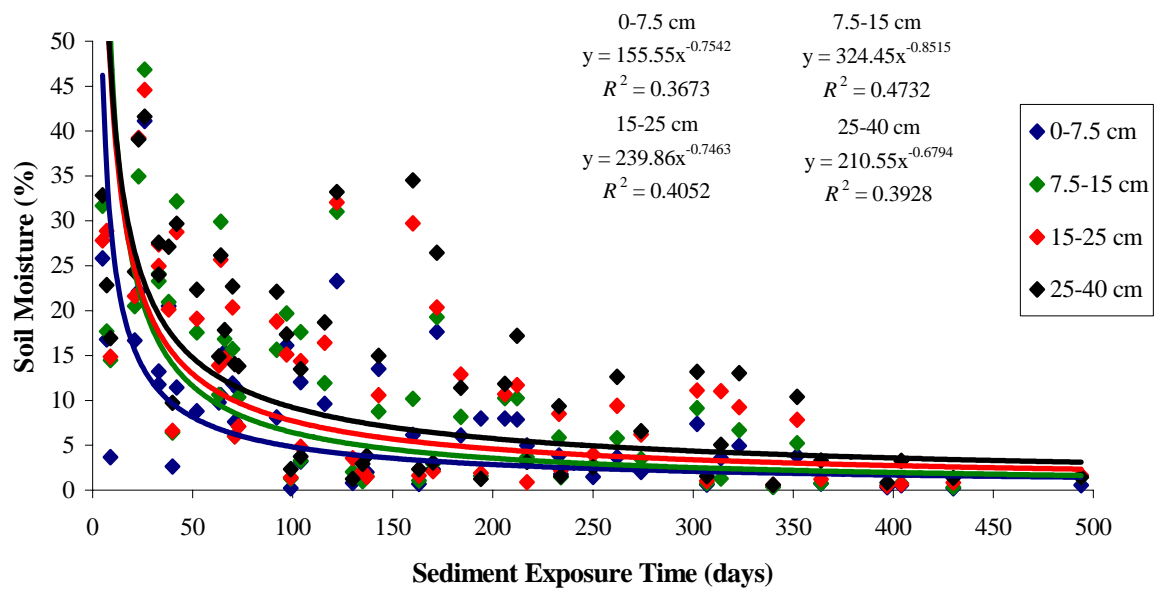
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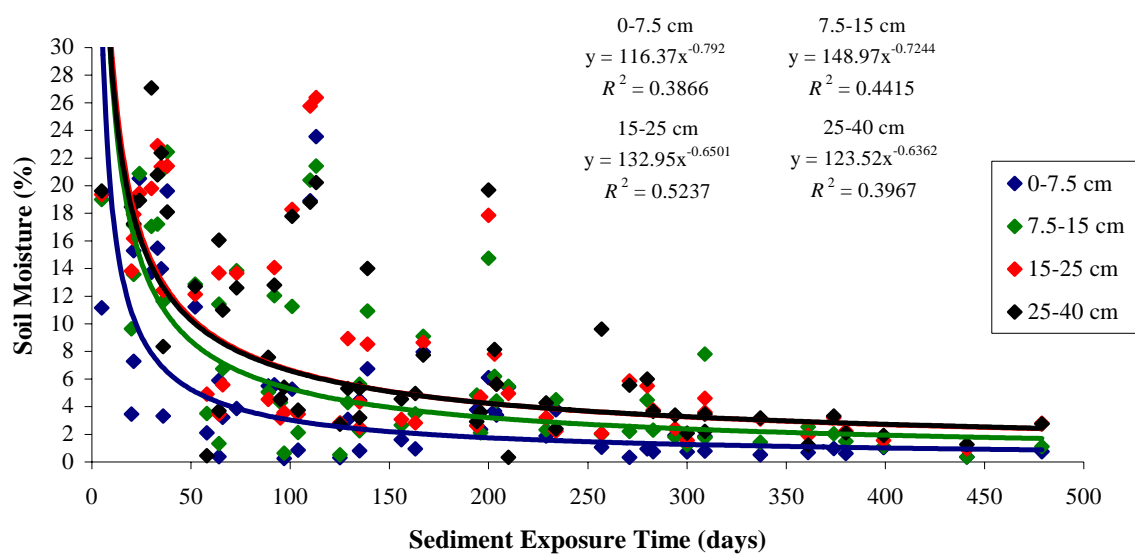
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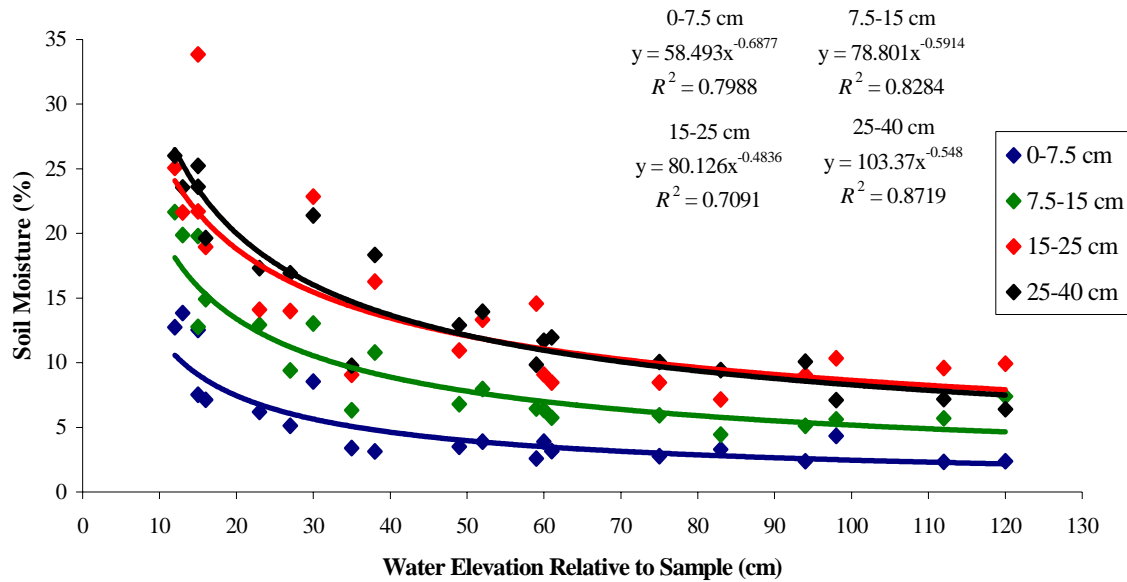


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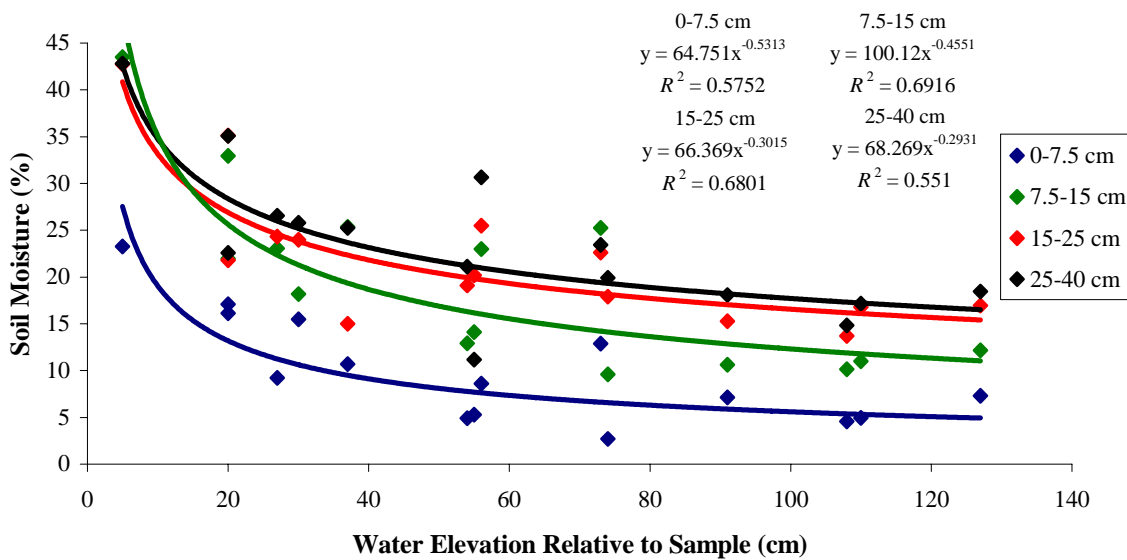


Appendix 7: Relationship between the elevation of the quadrat relative to the water level and soil moisture content for each soil sampling depth a. Lake Malta, b. Lake Balaka, c. Lake Wetherell, D. Lake Menindee and e. Lake Cawndilla.

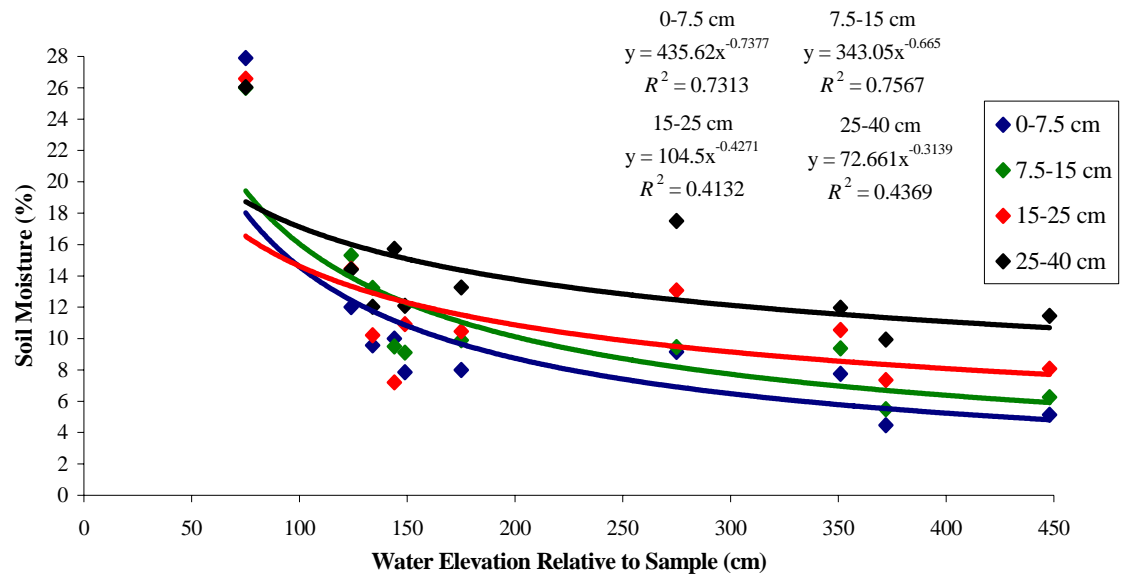
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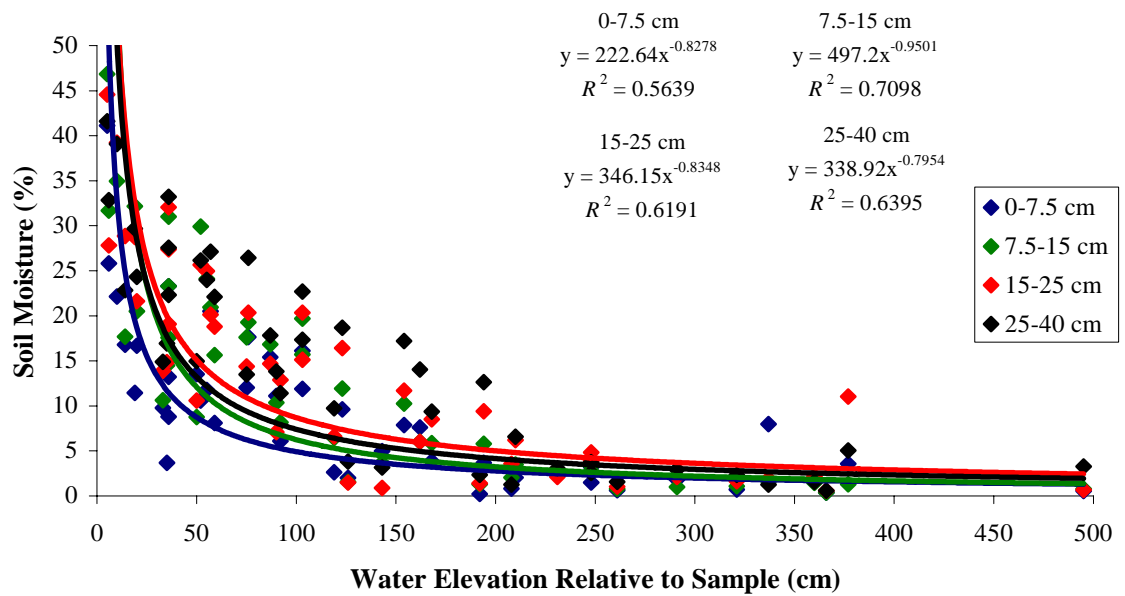
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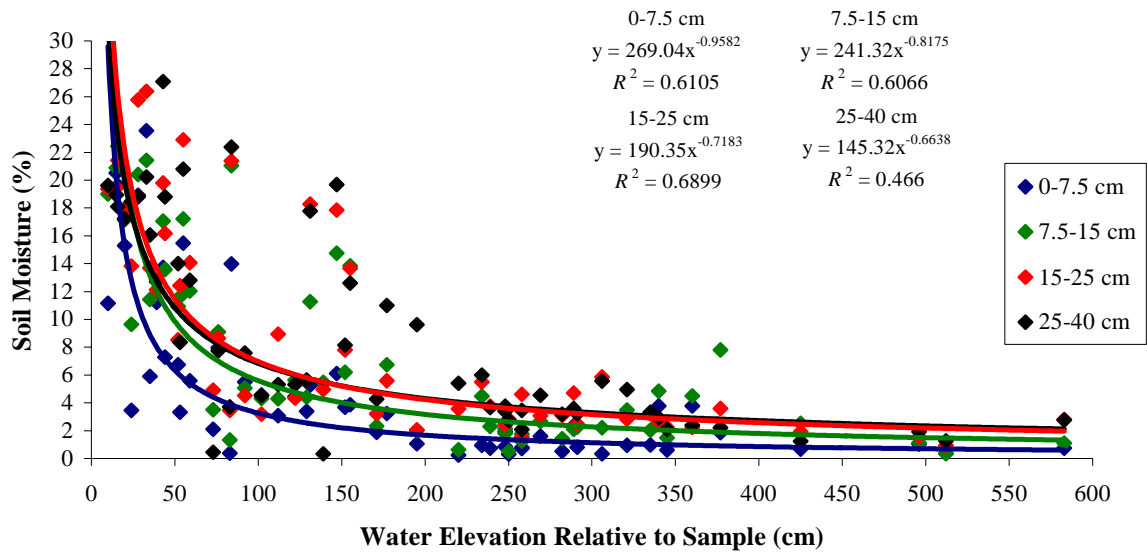
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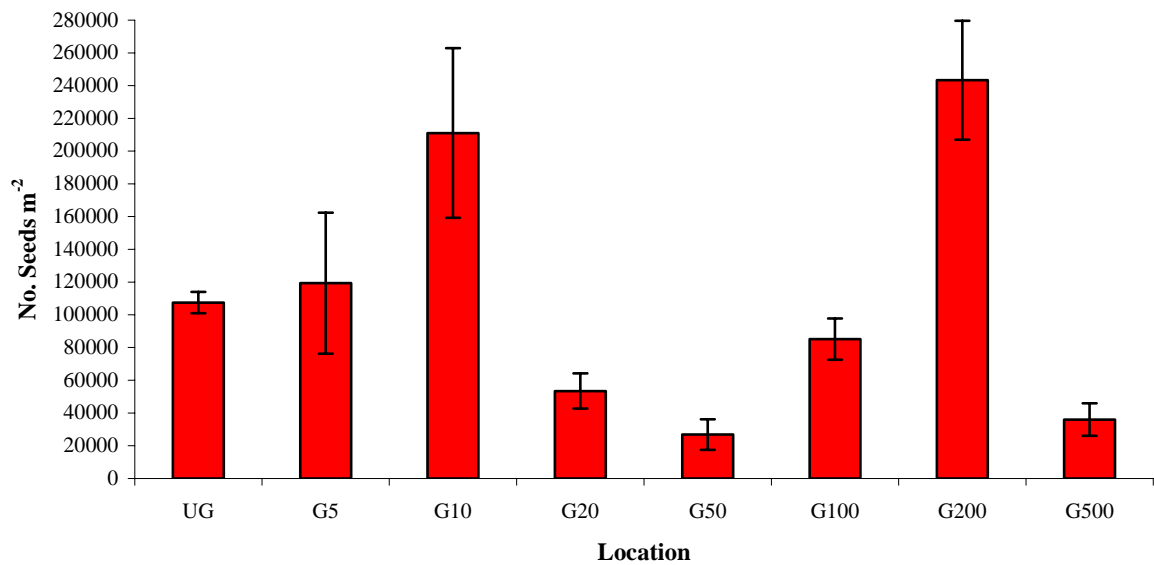
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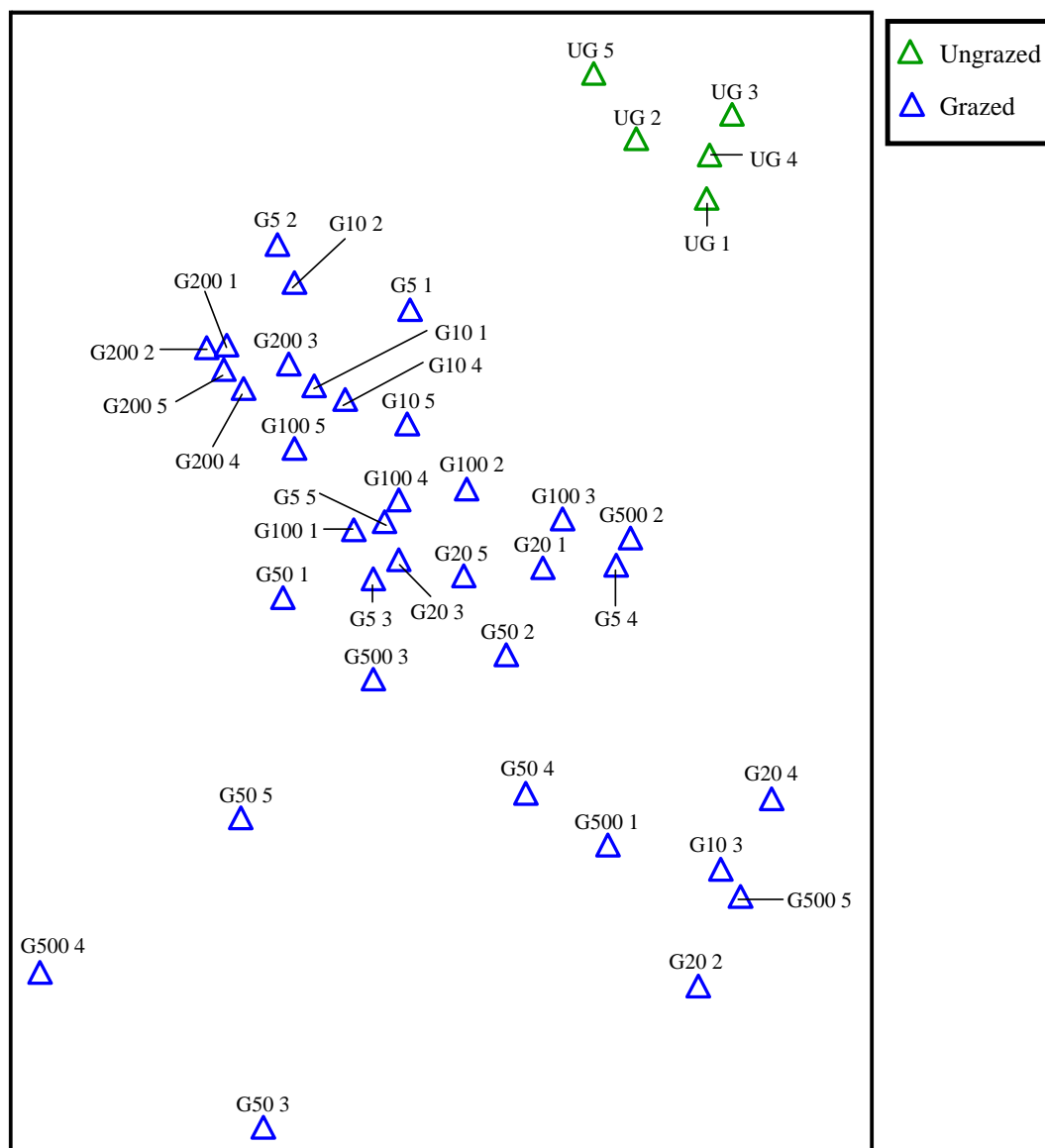
e.



Appendix 8: Total numbers of seeds m^{-2} from ungrazed and grazed areas of the Lake Tandure bed (UG = ungrazed, G = grazed, 5, 10, 20, 50, 100, 200 and 500 = distance in metres from Tandure Creek) (error bars = ± 1 S.E.).



Appendix 9: NMS ordination of the seed bank composition of the grazed and ungrazed sites in Lake Tandure (stress = 13.5%), (UG = ungrazed, G = grazed, 5, 10, 20, 50, 100, 200 and 500 = distance in metres from Tandure Creek, 1, 2, 3, 4 and 5 = replicate number).



Appendix 10: Indicator species analysis for the ungrazed area and each of the distances sampled from the ungrazed area in the grazed area of the Lake Tandure bed (Type A, B or C denotes why the species was not a significant indicator (Chapter 2)) (* denotes exotic species).

Species	Location	P
<i>Alisma</i> sp.	Ungrazed	0.124 (Type A)
<i>Cuscuta campestris</i> *	Ungrazed	0.001
<i>Eragrostis dielsii</i>	Ungrazed	1.00 (Type A)
<i>Persicaria lapathifolium</i>	Ungrazed	0.001
<i>Typha domingensis</i>	Ungrazed	0.001
<i>Xanthium occidentale</i> *	Ungrazed	0.013
<i>Euphorbia drummondii</i>	Grazed 5	1.00 (Type A)
<i>Gnaphalium luteo-album</i>	Grazed 5	0.103 (Type C)
<i>Medicago</i> sp.*	Grazed 5	1.00 (Type A)
<i>Ludwigia peploides</i>	Grazed 10	1.00 (Type A)
<i>Chloris truncata</i>	Grazed 100	1.00 (Type A)
<i>Alternanthera denticulata</i>	Grazed 200	0.021
<i>Ammania multiflora</i>	Grazed 200	0.011
<i>Centipeda minima</i>	Grazed 200	0.001
<i>Crassula sieberana</i>	Grazed 200	1.00 (Type A)
<i>Epaltes australis</i>	Grazed 200	0.121 (Type A)
<i>Heliotropium europaeum</i> *	Grazed 200	1.00 (Type A)
<i>Iseotopsis graminifolia</i>	Grazed 200	0.001
<i>Morgania floribunda</i>	Grazed 200	0.536 (Type B)
<i>Polygonum plebium</i>	Grazed 200	0.278 (Type B)
<i>Scirpus</i> sp.	Grazed 200	0.560 (Type B)
<i>Chenopodium pumilio</i>	Grazed 500	1.00 (Type A)
<i>Glinus lotoides</i>	Grazed 500	1.00 (Type A)