DATA REPOSITORY ITEM 2002032

TABLE DR 1. LITERATURE-DERIVED SAMPLES USED IN THIS STUDY

Study	Interval*	Facies†	Taxon§	N#	S**
Elias and Young, 1998	Ord./Sil.	Carbonate	Coral	258	10
Elias and Young, 1998	Ord./Sil.	Carbonate	Coral	232	7
Elias and Young, 1998	Ord./Sil.	Carbonate	Coral	366	7
Elias and Young, 1998	Ord./Sil.	Carbonate	Coral	127	5
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	115	14
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	247	19
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	257	19
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	130	16
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	1391	22
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	632	25
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	472	22
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	334	22
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	247	19
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	813	16
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	533	14
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	794	16
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	531	18
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	821	18
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	1016	21
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	361	10
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	90	11
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	127	20
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	409	17
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	104	15
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	165	21
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	100	9
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	139	20
Holterhoff, 1996	Penn.	Carb./Sil.	Crinoid	1157	23
Landing, 1995	Cambrian	Mud	All	108	7
Landing, 1995	Cambrian	Mud	All	263	14
Landing, 1995	Cambrian	Mud	All	279	15
Landing, 1995	Cambrian	Mud	All	489	10
Landing, 1995	Cambrian	Mud	All	145	9
Landing, 1995	Cambrian	Mud	All	261	9
Landing, 1995	Cambrian	Mud	All	536	14
Landing, 1995	Cambrian	Mud	All	301	6
Neuman, 1994	Ordovician	Mud	All	351	44
Patzkowsky, 1995	Ordovician	Carbonate	Brach	116	7
Patzkowsky, 1995	Ordovician	Carbonate	Brach	149	7
Patzkowsky, 1995	Ordovician	Carbonate	Brach	97	5
Patzkowsky, 1995	Ordovician	Carbonate	Brach	215	7
Patzkowsky, 1995	Ordovician	Carbonate	Brach	112	6
Patzkowsky, 1995	Ordovician	Carbonate	Brach	98	4
Patzkowsky, 1995	Ordovician	Carbonate	Brach	293	2
Patzkowsky, 1995	Ordovician	Carbonate	Brach	191	5
Patzkowsky, 1995	Ordovician	Carbonate	Brach	109	5
Patzkowsky, 1995	Ordovician	Carbonate	Brach	119	2
Patzkowsky, 1995	Ordovician	Carbonate	Brach	140	3
Patzkowsky, 1999	Ordovician	Carbonate	All	133	5
Patzkowsky, 1999	Ordovician	Carbonate	All	132	7
Patzkowsky, 1999	Ordovician	Carbonate	All	311	5
Patzkowsky, 1999	Ordovician	Carbonate	All	98	2
Patzkowsky, 1999	Ordovician	Carbonate	All	103	5
Patzkowsky, 1999	Ordovician	Carbonate	All	250	13
Patzkowsky, 1999	Ordovician	Carbonate	All	140	7
Patzkowsky, 1999	Ordovician	Carbonate	All	127	14

Patzkowsky, 1999	Ordovician	Carbonate	All	173	10
Patzkowsky, 1999	Ordovician	Carbonate	All	264	2
Patzkowsky, 1999	Ordovician	Carbonate	All	184	4
Patzkowsky, 1999	Ordovician	Carbonate	All	188	2
Patzkowsky, 1999	Ordovician	Carbonate	All	222	10
Patzkowsky, 1999	Ordovician	Carbonate	All	183	9
Romano and Owen, 1993	Ordovician	Shale	Trilo	357	26
Schubert and Bottjer, 1995	Triassic	Carbonate	All	167	14
Schubert and Bottjer, 1995	Triassic	Carbonate	All	207	16
Schubert and Bottjer, 1995	Triassic	Carbonate	All	516	6
Schubert and Bottjer, 1995	Triassic	Carbonate	All	248	18
Schubert and Bottjer, 1995	Triassic	Carbonate	All	297	8
Schubert and Bottjer, 1995	Triassic	Carbonate	All	138	12
Schubert and Bottjer, 1995	Triassic	Carbonate	All	311	18
Schubert and Bottjer, 1995	Triassic	Carbonate	All	676	19
Schubert and Bottjer, 1995	Triassic	Carbonate	All	246	10
Schubert and Bottjer, 1995	Triassic	Carbonate	All	220	3
Schubert and Bottjer, 1995	Triassic	Carbonate	All	114	11
Schubert and Bottjer, 1995	Triassic	Carbonate	All	523	17
Schubert and Bottjer, 1995	Triassic	Carbonate	All	550	3
Schubert and Bottjer, 1995	Triassic	Carbonate	All	109	9
Watkins, 1993	Silurian	Carbonate	All	677	65
Watkins, 1993	Silurian	Carbonate	All	597	66
Watkins, 1993	Silurian	Carbonate	All	1332	95
Watkins, 1993	Silurian	Carbonate	All	1978	68
West, 1976	Ordovician	Sand/silt	All	180	19
West, 1976	Silurian	Sand	All	368	13
West, 1976	Miss.	Shale	All	647	16
West, 1976	Permian	Mud	All	317	13
West, 1976	Cretaceous	Sand	All	868	17
West, 1976	Recent	Sand	All	151	8
Kowalewski et al., 2000	Miocene	Mud	Moll	247	22
Kowalewski et al., 2000	Miocene	Mud	Moll	336	34
Kowalewski et al., 2000	Miocene	Sand	Moll	237	49
Kowalewski et al., 2000	Miocene	Sand	Moll	269	43
Kowalewski et al., 2000	Miocene	Sand	Moll	433	42
Kowalewski et al., 2000	Miocene	Sand	Moll	257	36
Kowalewski et al., 2000	Miocene	Sand	Moll	147	31
Kowalewski et al., 2000	Miocene	Sand	Moll	160	45
Kowalewski et al., 2000	Miocene	Mud	Moll	119	18
Kowalewski et al., 2000	Miocene	Mud	Moll	232	26
Kowalewski et al., 2000	Miocene	Sand	Moll	272	36
Kowalewski et al., 2000	Miocene	Sand	Moll	238	32
Kowalewski et al., 2000	Miocene	Sand	Moll	252	31
Kowalewski et al., 2000	Miocene	Sand	Moll	138	23
Kowalewski et al., 2000	Miocene	Mud	Moll	251	31
Kowalewski et al., 2000	Miocene	Mud	Moll	253	37
Kowalewski et al., 2000	Miocene	Mud	Moll	1243	20
Kowalewski et al., 2000	Miocene	Mud	Moll	1350	19
Kowalewski et al., 2000	Miocene	Mud	Moll	572	23
Kowalewski et al., 2000	Miocene	Mud	Moll	457	24
Kowalewski et al., 2000	Miocene	Mud	Moll	550	13
Kowalewski et al., 2000	Miocene	Mud	Moll	424	17
Budd et al., 1999	Plio./Pleis.	Carbonate	Coral	135	16
Budd et al., 1999	Plio./Pleis.	Carbonate	Coral	145	14
Budd et al., 1999	Plio./Pleis.	Carbonate	Coral	96	10
Budd et al., 1999	Plio./Pleis.	Carbonate	Coral	94	11
Peters and Bork, 1999	Silurian	Shale	All	1803	28
Peters and Bork, 1999	Silurian	Shale	All	1917	27
Peters and Bork, 1999	Silurian	Shale	All	376	7
Cobabe and Allmon, 1994	Eocene	Sand	Moll	1204	37
Cobabe and Allmon, 1994	Eocene	Sand	Moll	945	37

Cobabe and Allmon, 1994	Eocene	Sand	Moll	668	16
Cobabe and Allmon, 1994	Eocene	Sand	Moll	932	44
Cobabe and Allmon, 1994	Eocene	Sand	Moll	2346	41
Cobabe and Allmon, 1994	Eocene	Sand	Moll	1719	44
Cobabe and Allmon, 1994	Eocene	Sand	Moll	2037	51
Cobabe and Allmon, 1994	Eocene	Sand	Moll	964	38
Cobabe and Allmon, 1994	Eocene	Sand	Moll	1734	30
Cobabe and Allmon, 1994	Eocene	Sand	Moll	894	27
Cobabe and Allmon, 1994	Eoc	Sand	Moll	300	22
Springer, 1982	Ord	Shale	All	181	7
Springer, 1982	Ord	Shale	All	167	6
Springer, 1982	Ord	Shale	All	105	9
Springer, 1982	Ord	Shale	All	102	8
Springer, 1982	Ord	Shale	All	250	8
Springer, 1982	Ord	Shale	All	114	8
Springer, 1982	Ord	Shale	All	100	8
Springer, 1982	Ord	Shale	All	185	4
Springer, 1982	Ord	Shale	All	196	7
Springer, 1982	Ord	Shale	All	114	11
Springer, 1982	Ord	Shale	All	119	9
Springer, 1982	Ord	Shale	All	158	9
Springer, 1982	Ord	Shale	All	123	12
Springer, 1982	Ord	Shale	All	134	6
Springer, 1982	Ord	Shale	All	150	4
Springer, 1982	Ord	Shale	All	100	1
Springer, 1982	Ord	Shale	All	148	5
Springer, 1982	Ord	Sand	All	98	13
Springer, 1982	Ord	Sand	All	145	5
Springer, 1982	Ord	Sand	All	100	8

*Ord. = Ordovician, Sil. = Silurian, Penn. = Pennsylvanian, Miss. = Mississippian, Plio. = Pliocene, Pleis. = Pleistocene.
[†]Carb. = Carbonate, Sil. = Siliciclastic.
[§]Moll. = Mollusks, Brach. = Brachiopods, Trilo. = Trilobites, All = all preservable taxa.
[#]N = number of specimens collected.
**S = number of genera collected.

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FIGURE DR 1

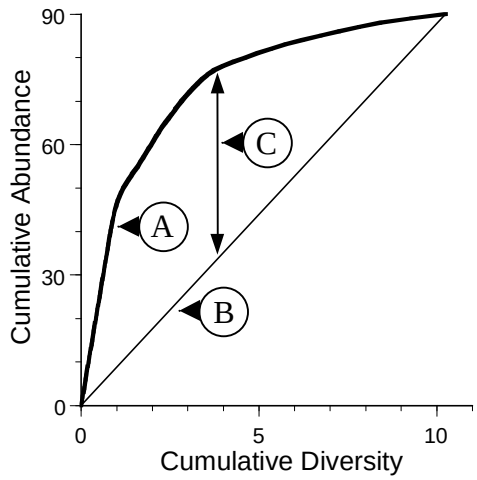

Figure DR 1. Example of mean abundance vs. diversity curve (MAD) for taxa in one sample. A: Mean curve constructed from 1000 subsamples. B: Maximum evenness curve. C: Maximum deviation of mean curve from maximum evenness curve (Kolmogorov-Smirnov *D* statistic).

TABLE DR 2. RAW DATA SETS ABBREVIATED BY FIRST 4 LETTERS OF CITATION AND LAST TWO DIGITS OF PUBLICATION YEAR. NUMBERS REPRESENT COUNTS OF SPECIMENS FOR EACH GENUS. GENERA ARRANGED ACCORDING TO THEIR RELATIVE ABUNDANCE (E.G., FIRST ROW OF NUMBERS REPRESENTS THE MOST ABUNDANT GENUS IN A GIVEN DATA SET AND SO ON).

Elia 98	Elia 98	Elia 98	Elia 98	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96
202	181	217	113	44	102	62	25	361	180	149	80	77	283	272
17	36	80	7	21	43	49	24	277	79	111	75	73	159	101
16	6	49	5	15	30	46	23	141	77	66	36	29	143	69
6	4	13	1	8	15	33	14	93	73	38	34	21	79	65
6	3	5	1	6	10	17	12	82	45	21	16	7	32	6
4	1	1		3	10	10	9	74	31	16	14	7	30	5
3	1	1		3	7	8	6	40	29	15	12	5	25	5
2				3	7	7	5	39	21	12	11	5	25	2
1				3	4	7	3	38	15	12	11	4	14	2
1				3	3	4	2	32	15	11	10	3	7	2
				3	3	3	2	32	9	5	8	3	5	1
				1	3	2	1	32	8	3	6	3	4	1
				1	3	2	1	26	8	2	4	2	2	1
				1	2	2	1	25	8	2	4	2	2	1
					1	1	1	21	7	2	3	2	2	
					1	1	1	19	5	1	3	1	1	
					1	1		15	5	1	2	1		
					1	1		12	4	1	1	1		
					1	1		11	3	1	1	1		
								8	3	1	1			
								8	2	1	1			
								5	2	1	1			
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Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Holt 96	Land 95	Land 95
382	261	273	375	213	24	16	190	40	61	44	30	398	41	114
241	122	196	331	99	17	12	105	14	26	27	27	393	21	46
35	74	150	60	17	14	12	23	10	20	13	20	127	20	23
32	15	52	45	12	13	12	16	8	9	7	12	33	17	21
25	11	41	40	7	12	11	14	6	6	4	12	30	5	15
21	10	22	29	5	3	11	13	5	6	2	9	27	2	14
14	8	19	21	3	3	8	13	5	5	1	9	22	2	10
10	7	13	20	2	1	7	11	5	5	1	4	22		5
7	6	12	16	2	1	6	8	4	4	1	4	19		5
7	4	10	13	1	1	6	6	2	4		2	13		4
6	3	8	12		1	5	3	1	3		1	13		3
5	2	6	11			5	2	1	2		1	12		1
4	2	5	11			5	1	1	2		1	10		1
3	2	4	10			3	1	1	2		1	10		1
1	1	3	8			2	1	1	2		1	5		
1	1	3	6			2	1		2		1	4		
	1	3	3			1	1		2		1	4		
	1	1	2			1			1		1	3		
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			1			1			1		1	3		
			1						1			3		
												2		
												1		

Land 95	Land 95	Land 95	Land 95	Land 95	Land 95	Neum 94	Patz 95	Patz 95	Patz 95	Patz 95	Patz 95	Patz 95	Patz 95	Patz 95
97	236	68	198	160	172	59	87	88	58	99	78	93	290	124
35	89	43	14	117	67	54	11	34	25	86	16	3	3	48
33	55	11	12	65	57	32	6	13	12	14	11	1		14
30	45	8	12	52	3	26	5	9	1	9	4	1		4
21	32	6	11	41	1	21	5	2	1	3	2			1
17	10	5	9	40	1	18	1	2		3	1			
14	10	2	3	22		12	1	1		1				
7	8	1	1	11		10								
7	3	1	1	8		10								
5	1			7		9								
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Patz 95	Patz 95	Patz 95	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99	Patz 99
60	115	138	116	120	299	87	56	123	126	82	121	263	173	187
32	4	1	12	5	6	11	40	86	4	9	34	1	8	1
14		1	2	2	3		4	16	3	8	9		2	
2			2	2	2		2	7	2	7	2		1	
1			1	1	1		1	5	2	6	2			
				1				4	2	4	1			
				1				2	1	3	1			
								2		2	1			
								1		1	1			
								1		1	1			
								1		1				
								1		1				
								1		1				
										1				

Patz 99	Patz 99	Roma 93	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95	Schu 95
97	77	121	37	43	420	89	118	83	175	355	149	218	41	288
58	39	71	29	41	67	79	89	27	30	69	65	1	28	96
27	28	33	27	37	18	21	47	8	29	66	9	1	16	74
12	16	31	22	24	7	14	24	5	28	30	6		6	15
11	11	15	20	15	3	10	13	3	10	30	5		5	9
9	6	11	12	12	1	9	3	3	9	27	4		5	8
4	2	10	7	9		6	2	2	6	27	4		5	7
2	2	8	4	6		4	1	2	5	19	2		4	7
1	2	6	3	5		3		2	4	17	1		2	5
1		6	2	4		3		1	3	15	1		1	4
		6	1	4		2		1	2	4			1	2
		6	1	3		2		1	2	4				2
		5	1	1		1			2	3				2
		4	1	1		1			2	3				1
		4		1		1			1	2				1
		4		1		1			1	2				1
		3				1			1	1				1
		3				1			1	1				
		2								1				
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Schu 95	Schu 95	Watk 93	Watk 93	Watk 93	Watk 93	West 76	West 76	West 76	West 76	West 76	West 76	Kowa 01	Kowa 01	Kowa 01
546	47	114	118	247	680	54	223	365	209	591	60	141	55	44
2	23	57	101	74	170	37	48	169	71	103	55	17	50	22
2	14	40	49	73	156	28	48	31	13	79	28	15	38	20
	8	30	24	73	125	15	18	19	13	31	4	15	35	18
	4	27	21	71	104	11	12	12	3	15	1	13	27	16
	4	24	21	44	88	8	4	9	1	10	1	6	15	10
	3	24	19	42	70	6	4	9	1	9	1	5	14	9
	3	24	17	42	66	3	4	8	1	9	1	4	11	8
	3	24	15	37	59	3	2	7	1	4		4	10	7
		21	15	34	39	3	2	6	1	4		4	10	6
		21	14	34	39	2	1	5	1	3		4	10	6
		20	13	30	35	2	1	3	1	3		3	9	5
		18	11	30	33	2	1	1	1	2		3	8	5
		18	10	30	29	1		1		2		2	7	5
		15	9	26	23	1		1		1		2	4	4
		13	7	25	20	1		1		1		2	4	3
		13	6	22	18	1				1		2	3	3
		12	6	22	16	1						1	3	3
		11	6	21	16	1						1	3	3
		9	6	18	14							1	2	2
		8	6	17	14							1	2	2
		7	5	16	14							1	2	2
		7	5	16	10								2	2
		7	5	16	10								2	2
		6	5	16	10								1	2
		6	5	15	8								1	2
		5	5	13	8								1	2
		5	4	13	6								1	2
		5	4	10	6								1	2
		5	4	10	6								1	1
		5	4	9	6								1	1
		4	4	9	6								1	1
		4	3	8	6								1	1
		4	3	8	6								1	1
		4	3	7	4									1
		4	3	7	4									1
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Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01	Kowa 01
73	116	115	48	55	46	78	106	71	44	72	84	52	713	943
22	52	28	14	24	19	23	55	23	43	12	54	51	245	209
22	42	28	8	7	11	22	16	20	22	11	24	26	60	53
15	41	22	8	6	7	18	11	18	21	8	15	20	50	48
12	31	9	7	5	7	14	9	16	17	7	9	11	42	21
10	25	6	7	4	6	13	8	15	17	6	9	10	32	12
8	10	5	6	3	6	9	7	12	14	3	9	8	31	12
7	10	4	5	3	3	7	6	11	12	2	7	8	18	11
7	9	4	5	3	3	7	6	5	8	2	5	6	13	10
6	9	3	5	3	2	6	5	5	8	2	4	5	9	9
6	9	2	4	3	2	5	4	5	6	1	3	5	8	5
6	9	2	4	3	1	5	4	5	5	1	2	5	5	5
6	8	2	3	3	1	4	4	5	4	1	2	5	5	4
5	7	2	2	2	1	3	3	3	4	1	2	4	4	2
5	6	2	2	2	1	3	2	2	3	1	2	4	3	2
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Kowa 01	Kowa 01	Kowa 01	Kowa 01	Budd 99	Budd 99	Budd 99	Budd 99	Pete 99	Pete 99	Pete 99	Coba 96	Coba 96	Coba 96	Coba 96
106	135	463	350	43	51	42	18	642	1041	166	249	187	210	262
82	75	24	24	29	20	19	16	209	171	154	211	168	115	132
76	65	18	19	12	17	13	14	157	147	42	169	122	90	63
75	39	9	5	10	16	8	13	107	103	9	88	117	79	56
71	24	8	4	10	13	5	10	95	71	3	82	82	63	52
43	20	7	4	8	7	3	7	63	68	1	69	46	45	35
26	16	7	3	4	6	2	6	61	66	1	39	29	31	33
25	13	7	2	4	5	2	5	58	40		38	23	9	32
15	12	2	2	4	4	1	2	54	38		34	19	7	30
11	11	2	2	3	2	1	2	52	34		28	16	5	26
8	9	1	2	3	1		1	36	24		26	14	4	22
8	8	1	2	1	1			36	23		21	13	3	21
7	7	1	1	1	1			34	17		20	13	3	17
5	7		1	1	1			32	14		18	12	2	16
3	3		1	1				25	13		17	12	1	16
2	3		1	1				24	10		15	12	1	16
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2	2							19	8		9	5		9
1	1							16	4		9	4		9
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Coba 96	Coba 96	Coba 96	Coba 96	Coba 96	Coba 96	Coba 96	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82
472	418	433	258	456	252	56	131	141	48	55	134	50	27	179
279	201	269	158	376	169	50	21	17	25	16	44	34	25	4
241	181	268	76	220	164	47	19	4	7	13	35	17	15	1
192	148	136	57	197	70	45	6	3	7	9	18	6	14	1
188	136	108	54	97	43	19	2	1	6	3	10	2	14	
174	75	86	44	68	39	11	1	1	5	3	7	2	2	
128	62	85	38	61	31	10	1		4	2	1	2	2	
117	62	58	35	46	27	9			2	1	1	1	1	
110	54	56	30	37	15	8			1					
84	48	52	30	30	11	7								
74	31	51	29	26	11	6								
36	28	51	26	24	11	5								
35	25	50	23	18	7	5								
30	23	43	14	13	7	5								
23	21	34	12	12	6	4								
21	20	31	10	9	5	4								
19	19	24	9	7	5	2								
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9	14	15	5	3	3	1								
8	13	15	5	3	2	1								
7	12	15	4	3	1									
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Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri 82	Spri82
125	33	54	73	48	44	95	100	56	43	50	46
34	24	39	42	35	38	32		52	19	34	21
24	24	14	29	12	25	21		27	8	30	14
10	18	5	4	6	24	2		11	7	23	8
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	1	1	1	3					2		1
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