

## APPENDIX C

The principles of Appendix C reduce any entry field to a power of two on day two of the event. These principles are achieved with the use of byes, 4-way matches and 2-way matches.

In the special cases of an entry field that exceeds a power of two by one or two teams, 3-way matches (one survivor) will be used. In such cases the staff shall seek withdrawals from the field prior to posting the first round pairings.

Page two offers a brief explanation of the pairing concept, with several examples. The pages that follow indicate first round pairings.

In the pairing grid which follows:

N = number of teams entered

E = number of teams to eliminate

B = number of byes

F = number of 4-way matches

T = number of 2-way matches

R = reference number

S = sum of the seeds

### Instructions for First Round Matches

1) Find the number of teams N in the table

2) If there are 2-way matches, they are assigned as follows:

B+1	vs	N
B+2	vs	N-1
	...	
B+T	vs	N-T+1

Note the sum of the 2 seeds is  $B+N+1 = S$

3) If there are four-ways, they can be arranged as follows:

1st seed	2nd seed	3rd seed	4th seed
R+1	R+2F	R+2F+1	R+4F
R+2	R+2F-1	R+2F+2	R+4F-1
	...		
R+F	R+F+1	R+3F	R+3F+1

First seeds play fourth in the afternoon, second seeds play third

Note the sum of the seeds playing in the afternoon is  $2R+4F+1=S$

**N.B. Special cases of power of two +1 and +2**

Below is a worked out example which works for any of  
 N=39,40,47,48,49,50

In each of these cases R=11 and S=51

The 4-way matches are the same for each of these numbers of teams

#1 seed	# 2 seed	#3 seed	# 4 seed
12	25	26	39
13	24	27	38
14	23	28	37
15	22	29	36
16	21	30	35
17	20	31	34
18	19	32	33

Note that the sum of seeds is 51; moreover the sum of #1,#2 seed in the same 4-way is 37  
 2-way matches

#

teams matches

39	B=11=R T=0 no 2-ways	40	B=10 T=1 11 vs 40		
47	B=3 T=8 4 vs 47 5 vs 46 6 vs 45 7 vs 44 8 vs 43 9 vs 42 10 vs 41 11 vs 40	48	B=2 T=9 3 vs 48 4 vs 47 5 vs 46 6 vs 45 7 vs 44 8 vs 43 9 vs 42 10 vs 41 11 vs 40	49	B=1 T=10 2 vs 49 3 vs 48 4 vs 47 5 vs 46 6 vs 45 7 vs 44 8 vs 43 9 vs 42 10 vs 41 11 vs 40
				50	B=0,T=11 1 vs 50 2 vs 49 3 vs 48 4 vs 47 5 vs 46 6 vs 45 7 vs 44 8 vs 43 9 vs 42 10 vs 41 11 vs 40

**Appendix C - Revised 12/01/2005**

If the number of teams is in bold, these can be done with all 4-ways

#teams	# to elim	#byes	#4-ways	#2-ways	ref #	sum of seeds	#s with same 4-ways
N	E	B	F	T	R	S	
9	1	5	1	0	5	15	9,10,11,12,13,14
10	2	4	1	1	5	15	
11	3	3	1	2	5	15	
12	4	2	1	3	5	15	
13	5	1	1	4	5	15	
14	6	0	1	5	5	15	
15	7	1		7		17	
16	8	0		8		17	
17	9	0	0	7		16	8-16-17
18	10	0	0	6		15	7-16-17 8-15-18
<b>19</b>	3	7	3	0	7	27	19,20,23,24,25,26
20	4	6	3	1	7	27	
<b>21</b>	5	1	5	0	5	23	21,22
22	6	0	5	1	5	23	
23	7	3	3	4	7	27	
24	8	2	3	5	7	27	
25	9	1	3	6	7	27	
26	10	0	3	7	7	27	
27	11	3	1	10	11	31	
28	12	2	1	11	11	31	
29	13	1	1	12	11	31	
30	14	0	1	13	11	31	
31	15	1		15		33	
32	16	0		16		33	
33	17	0	0	15	29	32	16-32-33
34	18	0	0	14	29	31	15-32-33 16-31-34
<b>35</b>	3	23	3	0	23	59	35,36,55,56,57,58
36	4	22	3	1	23	59	
<b>37</b>	5	17	5	0	17	55	37,38,51,52,53,54
38	6	16	5	1	17	55	
<b>39</b>	7	11	7	0	11	51	39,40,47,48,49,50
40	8	10	7	1	11	51	
<b>41</b>	9	5	9	0	5	47	41,42,43,44,45,46
42	10	4	9	1	5	47	
43	11	3	9	2	5	47	
44	12	2	9	3	5	47	
45	13	1	9	4	5	47	
46	14	0	9	5	5	47	
47	15	3	7	8	11	51	
48	16	2	7	9	11	51	
49	17	1	7	10	11	51	
50	18	0	7	11	11	51	
51	19	3	5	14	17	55	
52	20	2	5	15	17	55	
53	21	1	5	16	17	55	

54	22	0	5	17	17	55	
55	23	3	3	20	23	59	
56	24	2	3	21	23	59	
57	25	1	3	22	23	59	
58	26	0	3	23	23	59	
59	27	3	1	26	29	63	
60	28	2	1	27	29	63	
61	29	1	1	28	29	63	
62	30	0	1	29	29	63	
63	31	1		31		65	
64	32	0		32		65	
65	33	0	0	31	61	64	32-64-65
66	34	0	0	30	61	63	31-64-65 32-63-66
<b>67</b>	3	55	3	0	55	123	67,68,119,120,121,122
68	4	54	3	1	55	123	
<b>69</b>	5	49	5	0	49	119	69,70,115,116,117,118
70	6	48	5	1	49	119	
<b>71</b>	7	43	7	0	43	115	71,72,111,112,113,114
72	8	42	7	1	43	115	
<b>73</b>	9	37	9	0	37	111	73,74,107,108,109,110
74	10	36	9	1	37	111	
<b>75</b>	11	31	11	0	31	107	75,76,103,104,105,106
76	12	30	11	1	31	107	
<b>77</b>	13	25	13	0	25	103	77,78,99,100,101,102
78	14	24	13	1	25	103	
<b>79</b>	15	19	15	0	19	99	79,80,95,96,97,98
80	16	18	15	1	19	99	
<b>81</b>	17	13	17	0	13	95	81,82,91,92,93,94
82	18	12	17	1	13	95	
<b>83</b>	19	7	19	0	7	91	83,84,87,88,89,90
84	20	6	19	1	7	91	
<b>85</b>	21	1	21	0	1	87	85,86
86	22	0	21	1	1	87	
87	23	3	19	4	7	91	
88	24	2	19	5	7	91	
89	25	1	19	6	7	91	
90	26	0	19	7	7	91	
91	27	3	17	10	13	95	
92	28	2	17	11	13	95	
93	29	1	17	12	13	95	
94	30	0	17	13	13	95	
95	31	3	15	16	19	99	
96	32	2	15	17	19	99	
97	33	1	15	18	19	99	
98	34	0	15	19	19	99	
99	35	3	13	22	25	103	
100	36	2	13	23	25	103	
101	37	1	13	24	25	103	
102	38	0	13	25	25	103	
103	39	3	11	28	31	107	

104	40	2	11	29	31	107
105	41	1	11	30	31	107
106	42	0	11	31	31	107
107	43	3	9	34	37	111
108	44	2	9	35	37	111
109	45	1	9	36	37	111
110	46	0	9	37	37	111
111	47	3	7	40	43	115
112	48	2	7	41	43	115
113	49	1	7	42	43	115
114	50	0	7	43	43	115
115	51	3	5	46	49	119
116	52	2	5	47	49	119
117	53	1	5	48	49	119
118	54	0	5	49	49	119
119	55	3	3	52	55	123
120	56	2	3	53	55	123
121	57	1	3	54	55	123
122	58	0	3	55	55	123
123	59	3	1	58	61	127
124	60	2	1	59	61	127
125	61	1	1	60	61	127
126	62	0	1	61	61	127
127	63	1		63		129
128	64	0		64		129