

The table of optimised play with the first dart

The following table and lots of others are enclosed into The Dart Book. There you can find the optimised play for each point (up to 501pts) - also for the second and the last dart in your hand.

PTS FINISH		pro	expert	average	R rec.	finish
lost		player,	player,	player,	lvl	with 3
prob.		use when	use when	use when		darts
op32p		oppon. at	oppon. at	oppon. at		(exp)
(exp)						

170	T20-T20-B50	Always	Always	Always	R pro	0.5%
!						
169	T20-T20-9...40p	(c)	(c)32..140p		exp	-
	T20-T20-17...32p	2..501p			pro	-
0.1%						
	T19-T20-12...40p		141..501p	(c)32..146p	ave	-
0.1%						
	T19-T16-T16(8)...16p			147..501p	ave	-
1.1%						
168	T20-T20-8(16)...40p		(c)32..109p	(c)	exp	-
!						
	T20-T19-11...40p	(c)	110..120p		exp	-
0.0%						
	T20-T19-19...32p	32..375p			pro	-
0.1%						
	T19-T19-14...40p		121..501p	2..501p	ave	-
0.2%						
167	T20-T19-B50	(c)32..160p	(c)32..65p		R pro	0.5%
!						
	T19-T20-B50				R pro	0.5%
0.1%						
166	T20-T20-14...32p	36..270p	2..501p		exp	-
	T20-T17-15...40p	(c)32..82p			pro	-
0.1%						
165	T20-T16-17...40p		(c)32..174p	(c)	exp	-
!						
	T19-T20-8(16)...40p			32..140p	ave	-
0.5%						
	T19-T19-11...40p		170..501p		beg	-
0.5%						
	B50-T19-18...40p	(c)32..270p			pro	-
2.1%						

164	T19-T19-B50	32..135p	32..65p		pro	0.5%	
!	T20-T18-B50	(c)	(c)		R exp	0.5%	-
0.7%	T19-T19-10...40p		62..348p	2..501p	exp	0.0%	-
1.3%	T20-T16-16...40p			(c)	ave	0.0%	-
1.5%	B50-T20-14...40p	131..400p			pro	-	-
3.7%							
163	T20-T19-14...32p	259..300p	2..501p		exp	-	
	T20-T19-6(10)...40p		(c)	(c)	exp	-	-
0.0%	T20-B50-13...40p	(c)32..260p			pro	-	-
0.4%	T19-T14-T16(8)...16p			32..501p	ave	-	-
0.9%							
162	T20-T20-10(6)...32p		(c)32..93p	(c)	exp	-	
!	T20-T20-10...32p	Always	83..501p		exp	-	-
0.0%	T19-T16-17...40p			2..501p	ave	-	-
0.7%							
161	T20-T17-B50	(c)32..130p	(c)32..40p		R pro	0.5%	
!	T20-T19-12...32p	132..135p	33..185p		exp	0.0%	-
0.5%	T20-T19-8(16)...36p			(c)	ave	0.0%	-
0.8%	T19-T16-16...40p			2..501p	ave	0.0%	-
1.2%	T19-T19-15...32p		186..501p		exp	0.0%	-
1.2%	B50-T20-19...32p	131..501p			pro	-	-
3.7%							
160	T20-T20-D20	Always	Always	Always	R exp	1.2%	
!	T20-B50-B50				R ave	0.3%	-
5.2%							
159	T20-T19-10(6)...32p		(c)32..93p	(c)	exp	-	
	T20-T19-10...32p	(c)32..300p	81..501p		exp	-	-
0.0%	T19-T14-20...40p			32..501p	beg	-	-
0.6%	T20-T17-16...32p	299..501p			pro	-	-
1.2%							
158	T20-T20-D19	(c)32..410p	(c)32..180p	(c)	R exp	1.2%	
!	T20-T20-6...32p		181..213p		exp	0.0%	-
4.1%							

5.3%	T19-T19-12...32p			2..501p	ave	0.0%	-
157	T20-T19-D20	(c)32..380p	Always	(c)	R exp	1.2%	
!							
0.7%	T19-T20-D20			2..501p	R ave	1.2%	-
156	T20-T20-D18	(c)32..450p	(c)32..205p	(c)	R exp	1.2%	
!							
4.3%	T19-T19-10(6)...32p			2..501p	ave	-	-
4.3%	T19-T19-10...32p		206..338p		exp	-	-
155	T20-T19-D19	(c)32..350p	32..180p	(c)	R exp	1.2%	
!							
0.2%	T19-T20-D19		(c)	32..109p	ave	1.2%	-
4.1%	T20-T19-6...32p	339..440p	181..240p		exp	0.0%	-
5.3%	T19-T14-16...40p			110..501p	ave	0.0%	-
154	T19-T19-D20	32..52p	2..501p	2..501p	exp	1.2%	
!							
0.2%	T20-T18-D20	34..341p			R pro	1.2%	-
0.4%	T20-T20-D17	(c)	(c)	(c)	exp	1.2%	-
1.4%	T18-T20-D20				R pro	1.2%	-
153	T20-T19-D18	(c)32..450p	Always	Always	R exp	1.2%	
!							
152	T20-T20-D16	(c)32..370p	Always	Always	R exp	1.2%	
!							
151	T20-T17-D20	2..501p	Always		R exp	1.2%	
!							
0.2%	T19-T18-D20			2..501p	R ave	1.2%	-
0.4%	T20-T19-D17	(c)		(c)	ave	1.2%	-
2.0%	T17-T20-D20				R pro	1.2%	-
150	T19-T19-D18	84..450p	2..501p	2..501p	exp	1.2%	
!							
0.3%	T20-T18-D18	32..140p			R pro	1.2%	-
0.7%	T20-T20-D15	(c)	(c)	(c)	R exp	1.2%	-
2.6%	T20-B50-D20				R exp	0.6%	-

149	T20-T19-D16	(c)32..310p	32..93p	(c)	R	pro	1.2%	
!	T19-T20-D16		(c)81..501p	2..501p	R	exp	1.2%	-
0.1%								
148	T20-T16-D20	32..270p	32..220p		R	exp	1.2%	
!	T19-T17-D20		(c)			exp	1.2%	-
0.2%								
0.6%	T20-T20-D14	(c)			R	exp	1.2%	-
0.8%	T16-T20-D20		219..501p		R	exp	1.2%	-
1.5%	T19-T19-D17(2)			(c)32..160p		ave	1.0%	-
1.9%	T18-T18-D20				R	exp	1.2%	-
147	T19-T18-D18	32..275p	32..160p	32..501p	R	exp	1.2%	
!	T20-T17-D18				R	pro	1.2%	-
0.2%								
0.3%	T20-T19-D15	(c)	(c)	(c)		exp	1.2%	-
3.9%	T19-T16-10...32p	273..310p	199..327p			exp	0.0%	-
146	T19-T19-D16	2..501p	Always	Always	R	exp	1.2%	
!	T20-T18-D16	(c)			R	pro	1.2%	-
0.7%								
145	T20-T15-D20	32..170p	2..501p		R	exp	1.2%	
!	T20-T19-D14	(c)			R	exp	1.2%	-
0.1%								
0.2%	T19-T16-D20			2..501p		ave	1.2%	-
0.6%	T20-T15(10)-D20		99..246p			exp	1.0%	-
1.9%	T18-T17-D20	448..501p			R	exp	1.2%	-
2.9%	T17-T20-D17		(c)	(c)		exp	1.2%	-
3.1%	B50-T19-D19	159..450p				pro	0.6%	-
144	T20-T20-D12	(c)	32..207p		R	exp	1.2%	
!	T20-T16-D18		208..501p		R	exp	1.2%	-
0.1%								
0.4%	T19-T17-D18	32..260p				pro	1.2%	-
0.4%	T19-T19-D15		(c)	(c)32..48p		ave	1.2%	-
0.9%	T20-T18-D15				R	exp	1.2%	-

1.2%	T19-T19(7)-D15		37..85p		ave	1.0%	-
	T18-T18-D18				R exp	1.2%	-
1.9%	B50-T18-D20	261..341p			pro	0.6%	-
3.6%							
143	T19-T18-D16		2..501p		R exp	1.2%	
!							
0.1%	T20-T17-D16		(c)		R exp	1.2%	-
0.3%	T20-T19-D13	(c)			R exp	1.2%	-
0.3%	T19-T16-D19		32..64p		ave	1.2%	-
0.3%	T18-T19-D16	32..310p			pro	1.2%	-
1.2%	T17-T20-D16		(c)		ave	1.2%	-
2.1%	T19-T14-12...32p		63..501p		ave	0.0%	-
3.9%							
142	T20-T14-D20	32..130p	2..501p		R exp	1.2%	
!							
0.4%	T20-T18-D14				R exp	1.2%	-
0.4%	T19-T15-D20				R beg	1.2%	-
0.4%	T20-T20-D11	(c)			R exp	1.2%	-
1.0%	T19-T15(10)-D20		2..501p		ave	1.0%	-
1.0%	T19-T17-D17		(c)		exp	1.2%	-
1.1%	T20-B50-D16	128..129p	90..221p		R exp	0.6%	-
1.5%	T18-T16-D20				R exp	1.2%	-
1.8%	B50-T20-D16	131..370p			pro	0.6%	-
3.0%							
141	T20-T19-D12	(c)	32..183p		R exp	1.2%	
!							
0.2%	T19-T20-D12	32..130p	(c)		pro	1.2%	-
0.3%	T20-T15-D18				R exp	1.2%	-
0.3%	T19-T16-D18		2..501p		R ave	1.2%	-
0.4%	T20-T17-D15				R exp	1.2%	-
0.6%	T20-T15(10)-D18		184..501p		exp	1.0%	-
0.9%	T17-T18-D18				R exp	1.2%	-
3.0%	T17-T20-D15		(c)		ave	1.2%	-
3.3%							

3.5%	B50-T17-D20	131..501p			pro	0.6%	-
140	T20-D20-D20	(c)32..89p	(c)32..60p		exp	1.5%	
!							
0.5%	T20-T20-D10	90..270p	61..130p		R exp	1.2%	-
0.9%	T20-T16-D16	265..501p	145..317p	32..102p	R ave	1.2%	-
3.4%	T20-20-20...40p		128..144p		exp	0.2%	-
4.6%	T19-T17-D16		318..501p	(c)	ave	1.2%	-
6.1%	T18-T18-D16				R exp	1.2%	-
8.4%	T19-19-T16(8)...16p			103..501p	ave	0.1%	-
139	T19-T14-D20	32..130p	2..501p	2..501p	R exp	1.2%	
0.3%	T20-T19-D11	(c)			R exp	1.2%	-
0.4%	T19-T18-D14			(c)	R exp	1.2%	-
1.2%	T20-T13-D20				R exp	1.2%	-
1.4%	T19-B50-D16	128..501p	90..221p		R exp	0.6%	-
1.5%	T20-T17-D14				R exp	1.2%	-
5.3%	T18-T17-D17		(c)		exp	1.2%	-
138	T20-D19-D20	32..60p	32..60p		exp	1.5%	
!							
0.4%	T20-T18-D12	61..334p	33..120p		R exp	1.2%	-
0.6%	T20-D20-D19	(c)	(c)		exp	1.5%	-
0.8%	T20-T20-D9				R exp	1.2%	-
1.3%	T20-T14-D18	335..450p			R exp	1.2%	-
1.6%	T19-T19-D12			2..501p	R ave	1.2%	-
1.7%	T18-T20-D12	131..170p			pro	1.2%	-
2.1%	T19-T17-D15			(c)	ave	1.2%	-
3.3%	T20-20-18...40p		121..501p		exp	0.2%	-
3.4%	T18-B50-D17	159..221p			pro	0.6%	-
137	T20-T19-D10	33..270p	32..143p		R exp	1.2%	
!							
0.5%	T19-D20-D20	(c)32..40p	(c)		exp	1.5%	-

1.1%	T20-T15-D16	262..315p			R exp	1.2%	-
1.4%	T19-T16-D16		2..501p		R ave	1.2%	-
2.9%	T17-T18-D16	311..501p			R pro	1.2%	-
3.2%	T20-19-18...40p		144..501p		exp	0.1%	-
3.3%	T18-T17-D16		(c)		ave	1.2%	-
136 !	T20-D18-D20	32..60p	32..40p		exp	1.5%	
0.2%	T20-D20-D18	(c)	(c)		exp	1.5%	-
0.3%	T20-T20-D8	61..334p	33..130p		R exp	1.2%	-
0.4%	T20-T16-D14				R exp	1.2%	-
0.6%	T19-T19-D11		82..97p	32..48p	ave	1.2%	-
1.8%	T19-T17-D14		(c)		ave	1.2%	-
3.2%	T20-20-16...40p		141..501p	55..88p	ave	0.2%	-
3.6%	T19-20-19...40p		91..140p	33..501p	ave	0.0%	-
135 !	T19-D19-D20		32..60p		R exp	1.5%	
0.4%	T19-T18-D12	265..334p	33..52p		R exp	1.2%	-
0.5%	T20-T17-D12	95..270p	61..160p		R exp	1.2%	-
1.0%	T20-T15-D15				R exp	1.2%	-
1.3%	T19-T14-D18	335..450p		36..501p	ave	1.2%	-
2.0%	T20-T13-D18				R exp	1.2%	-
3.0%	T18-T17-D15		(c)		ave	1.2%	-
3.4%	T19-19-19...40p		159..501p	32..139p	ave	0.1%	-
5.5%	B50-T15-D20	32..100p			R pro	1.6%	-
5.6%	B50-T19-D14	(c)	(c)		R pro	1.6%	-
134 !	T20-D17-D20	32..60p	32..40p		exp	1.5%	
0.0%	T20-T14-D16	61..310p	33..501p		R exp	1.2%	-
0.2%	T20-D19-D18	(c)			pro	1.5%	-
0.3%	T19-T19-D10			32..74p	R ave	1.2%	-

	T20-T18-D10			R exp	1.2%	-
0.5%						
	T18-D20-D20		(c)	exp	1.5%	-
0.9%						
	T19-T19-D10(6)			75..92p	ave	1.0% -
1.1%						
	T19-T15-D16			R ave	1.2%	-
1.4%						
	T17-T17-D16	302..410p	(c)	pro	1.2%	-
2.8%						
	T19-19-18...40p			91..501p	beg	0.1% -
3.4%						
133	T19-D18-D20	32..60p	32..40p	exp	1.5%	
!						
	T20-T19-D8	61..354p	33..198p	R exp	1.2%	-
0.1%						
	T19-D20-D18	(c)		beg	1.5%	-
0.2%						
	T19-T20-D8			R pro	1.2%	-
0.3%						
	T20-T11-D20	355..501p		R exp	1.2%	-
1.1%						
	T14(11)-T17-D20		(c)	exp	1.6%	-
2.8%						
	T14(11)-T19-D17		(c)	ave	1.6%	-
3.1%						
	T19-20-16...40p			2..501p	ave	0.2% -
3.1%						
	T20-17-16...40p		199..501p	exp	0.1%	-
3.4%						
132	T20-D20-D16	261..501p	2..501p	exp	1.5%	
!						
	T20-T16-D12	211..260p	33..260p	R exp	1.2%	-
0.1%						
	T20-T12-D18			R exp	1.2%	-
0.5%						
	T19-T17-D12	95..210p	82..99p	exp	1.2%	-
0.6%						
	T20-T20-D6			R exp	1.2%	-
0.8%						
	T19-T19-D9		32..40p	ave	1.2%	-
1.0%						
	T18-T18-D12			R exp	1.2%	-
1.5%						
	T17-T17-D15		(c)	ave	1.2%	-
3.7%						
	T19-19-16...40p			33..501p	ave	0.1% -
3.7%						
	B50-T14-D20	32..100p		R pro	1.6%	-
4.2%						
	B50-T18-D14	(c)		R pro	1.6%	-
4.4%						
	B50-T20-D11		(c)	exp	1.6%	-
4.7%						

4.9%	B50-B50-D16				R pro	1.3%	-
131	T19-D17-D20	32..60p	32..40p		exp	1.6%	
!	T19-T14-D16		33..501p		R exp	1.3%	-
0.0%	T19-D19-D18	(c)			pro	1.6%	-
0.2%	T20-T13-D16	61..501p			R exp	1.2%	-
0.2%	T20-T17-D10				R exp	1.2%	-
0.8%	T14(11)-T19-D16		(c)	(c)	exp	1.6%	-
0.9%	T20-T19-D7				R exp	1.3%	-
1.2%	T19-18-16...40p			2..501p	ave		
130	T20-T20-D5	(c)32..130p	(c)32..40p		R pro	3.8%	
!	T20-20-B50				R exp	3.4%	-
0.9%	T20-T14-D14		35..48p		exp	2.5%	-
1.3%	T20-T10-D20				R exp	2.5%	-
1.3%	T20-T18-D8	125..129p			R exp	2.5%	-
1.6%	T19-T19-D8	131..354p	33..197p	32..77p	R exp	1.2%	-
3.1%	T14(11)-T20-D14			(c)	ave	1.6%	-
4.1%	T19-17-16...40p		198..501p		exp	0.1%	-
6.3%	T19-14-19...40p			78..501p	ave	0.0%	-
6.5%							
129	T19-D20-D16	(c)32..65p	(c)32..40p		pro	2.8%	
	T19-T16-D12	62..89p	33..60p	32..501p	R pro	2.5%	-
0.1%	T20-T19-D6	79..135p			R pro	2.5%	-
0.4%	T19-T12-D18				R pro	2.5%	-
0.5%	T19-T20-D6				R pro	2.5%	-
0.8%	T20-19-B50				R exp	2.1%	-
2.0%	T20-T15-D12		61..67p		exp	1.2%	-
2.1%	T20-T11-D18				R exp	1.2%	-
2.1%	T20-T15(10)-D12		68..80p		exp	1.0%	-
2.6%	T20-T13-D15				R exp	1.2%	-
2.7%							

3.1%	T18-T17-D12	131..310p	81..160p		exp	1.2%	-
3.4%	T14(11)-T19-D15			(c)	ave	1.6%	-
128	T20-D18-D16		32..56p		exp	2.3%	-
0.6%	T18-D17-D20	32..60p			pro	2.8%	-
0.6%	T18-T14-D16	61..130p			R pro	2.5%	-
0.8%	T18-D19-D18	(c)			pro	2.8%	-
1.1%	T18-T18-D10				R pro	2.5%	-
1.2%	T18-D20-D17		(c)		exp	2.8%	-
1.2%	T20-18-B50				R exp	2.2%	-
1.3%	T19-T13-D16	125..501p	61..501p	85..501p	R ave	1.3%	-
1.3%	T20-T12-D16		33..60p		exp	1.2%	-
1.8%	T20-T16-D10				R exp	1.2%	-
1.8%	T20-T12(9)-D16			32..84p	ave	1.0%	-
1.8%	T20-T20-D4				R exp	1.2%	-
2.8%	T15(10)-T17-D16			(c)	ave	1.6%	-
127	T20-T17-D8	(c)32..160p	(c)32..60p		R pro	3.8%	-
!	T20-T9-D20		61..67p		exp	2.5%	-
1.7%	T20-17-B50				R exp	3.3%	-
1.9%	T19-20-B50				R exp	2.2%	-
3.3%	T19-T14-D14			32..501p	ave	1.2%	-
3.7%	T19-T10-D20				R exp	1.2%	-
3.7%	T19-T18-D8				R exp	1.2%	-
4.0%	T16-T19-D11		63..97p		exp	1.2%	-
4.7%	T15(10)-T14-D20		221..501p		exp	1.6%	-
4.7%	T18-T19-D8	159..354p			pro	1.2%	-
5.3%	T15(10)-B50-D16		201..220p		exp	1.1%	-
5.7%	T9-T20-D20			(c)	ave	1.6%	-
7.2%	T16-20-19...40p		91..200p		exp	0.0%	-
7.4%							

126	T19-T19-D6	(c)32..135p	(c)32..60p	R	pro	3.8%	
!	T19-19-B50			R	exp	3.3%	-
1.6%	T19-T15-D12		61..67p	R	exp	2.5%	-
1.7%	T19-T11-D18			2..501p	R	ave	2.5%
1.7%	T19-T15(10)-D12		68..92p		exp	2.3%	-
2.1%	T19-T11(14)-D18			33..134p	ave	2.3%	-
2.2%	T16-T18-D12				R	exp	2.5%
3.1%	T16-T14-D18				R	beg	2.5%
3.9%	T20-16-B50				R	exp	2.2%
4.4%	T20-D15-D18				R	exp	1.5%
5.0%	T18-D20-D16	261..501p			pro	1.5%	-
5.1%	T14-T20-D12		91..205p		exp	1.4%	-
5.1%	T18-T16-D12	256..260p			pro	1.2%	-
5.1%	T14-T16-D18		206..501p		exp	1.4%	-
5.2%	T20-T12-D15				R	exp	1.2%
5.3%	T20-T18-D6				R	exp	1.2%
5.4%	T15(10)-T17-D15			(c)	ave	1.6%	-
5.5%	T17-T17-D12	131..255p			pro	1.2%	-
5.8%							
125	B50-T17-D12	(c)32..310p	(c)32..61p	(c)	R	pro	3.0%
!	T20-B50(25)-D20		62..89p		R	exp	2.4%
1.0%	B50-B50(25)-B50				R	exp	2.9%
1.2%	T20-T15-D10				R	exp	2.6%
1.8%	T18-T13-D16				R	exp	2.5%
2.9%	T20-T11-D16		88..200p		R	exp	1.3%
3.4%	T20-15-B50				R	exp	2.1%
3.6%	T20-T19-D4				R	exp	1.3%
3.8%	T15-T16-D16				R	exp	2.7%
4.0%							

4.6%	T19-T12(9)-D16		204..501p	2..501p	ave	1.1%	-
124	T20-T14-D11	(c)32..130p	(c)32..40p		R pro	3.8%	
0.6%	T20-T8(16)-D20			32..82p	ave	2.8%	-
0.9%	T19-T17-D8	125..160p	33..60p		R exp	2.5%	-
1.0%	T20-T16-D8				R ave	2.7%	-
1.4%	T20-14-B50				R ave	3.4%	-
1.9%	T20-T12-D14				R ave	2.5%	-
2.4%	T20-T20-D2				R exp	2.5%	-
2.6%	T19-T9-D20	159..227p	61..100p		exp	1.2%	-
2.8%	T16-T20-D8	228..350p	91..136p		exp	1.4%	-
3.0%	T14(11)-T18-D14			(c)	ave	2.6%	-
4.7%	T18-T18-D8				R exp	1.2%	-
5.5%	T16-20-16...40p		134..501p	180..501p	ave	0.3%	-
	T20-16(8)-8(16)...40p			83..97p	ave		
	T19-11-16...40p			98..179p	ave		
123	T19-T16-D9	(c)32..100p	(c)32..40p		R pro	3.8%	
!	B50-T19-D8	95..354p	33..60p		exp	3.1%	-
0.2%	B50-T17-D11			(c)	ave	3.1%	-
0.5%	T20-T13-D12		61..77p		R exp	2.5%	-
1.0%	T19-16-B50				R beg	3.4%	-
1.3%	T19-T14-D12			32..133p	R ave	2.5%	-
1.7%	T19-T10-D18				R ave	2.5%	-
1.8%	T20-T9-D18		75..263p		exp	1.2%	-
3.4%	T17-D20-D16	378..400p	264..501p		exp	1.5%	-
5.1%	T19-10-16...40p			134..501p	ave		
122	B50-D20-D16	261..380p	32..40p	(c)	exp	3.2%	
!	B50-T16-D12	90..260p	33..60p		R exp	3.1%	-
0.0%	T19-B50(25)-D20		61..89p	32..40p	exp	2.4%	-
1.0%	T18-D18-D16				R exp	3.6%	-
2.5%							

2.8%	T18-T18-D7	(c)32..89p	(c)		R pro	3.8%	-
3.3%	T19-T11-D16		88..240p	33..211p	ave	1.3%	-
3.7%	T18-18-B50				R exp	3.5%	-
3.7%	T18-T12-D16				R exp	2.6%	-
3.8%	T20-D15-D16				R exp	1.6%	-
3.9%	T20-T10-D16	381..501p			R exp	1.3%	-
4.2%	T18-T20-D4				R exp	2.6%	-
4.7%	T16-T14-D16		239..501p		exp	1.5%	-
5.0%	T14-T16-D16			212..501p	ave	1.6%	-
5.9%	T12-T18-D16				R exp	2.8%	-
121	T20-B50(25)-D18		32..40p		R exp	3.6%	
!							
0.4%	B50-T13-D16	95..501p	33..103p		exp	3.1%	-
0.6%	T20-T11-D14	(c)32..100p			R pro	3.8%	-
0.7%	B50-T17-D10			(c)	ave	3.1%	-
2.1%	T20-T7-D20				R exp	2.7%	-
2.1%	T19-T8(16)-D20		201..237p	32..501p	ave	1.7%	-
2.4%	T20-11-B50				R exp	3.3%	-
2.4%	T20-T15-D8				R exp	2.5%	-
2.5%	T19-T16-D8				R exp	1.6%	-
2.8%	T19-D16-D16		238..501p		exp	1.7%	-
2.9%	T17-T20-D5		(c)		R pro	3.8%	-
3.8%	T17-20-B50				R exp	3.4%	-
3.9%	T16-T19-D8		102..200p		exp	1.6%	-
4.1%	T17-T10-D20				R exp	2.5%	-
4.4%	T17-T18-D8				R exp	2.5%	-
120	T20-20-D20	Always	(c)32..248p	Always	R exp	8.1%	
!							
8.0%	T20-D14-D16		249..501p		exp	4.7%	-

119	T19-T12-D13	(c)32..130p	(c)32..40p		R pro	5.9%	
	T20-19-D20	125..501p	33..501p		R exp	5.0%	-
0.2%	T19-12-B50				R beg	5.5%	-
1.3%	T19-T10-D16				R ave	4.6%	-
1.5%	T19-T10(6)-D16			32..154p	ave	4.4%	-
2.0%	19-T20-D20			(c)	ave	5.1%	-
2.6%							
118	T20-18-D20	Always	Always	(c)32..80p	R exp	8.2%	
!	T18-T16-D8				R ave	4.5%	-
8.5%	T18-14-B50				R ave	5.3%	-
8.8%	T19-19-10(6)...32p			79..501p	ave		
117	T20-17-D20	33..501p	2..501p	2..501p	R exp	8.1%	
!	T19-20-D20	(c)32..40p	(c)	(c)	R beg	8.5%	-
0.4%							
116	T19-19-D20	(c)32..315p	Always	2..501p	R exp	8.3%	
!	T20-16-D20	311..501p		(c)	R exp	8.3%	-
0.7%	T20-20-D18				R exp	8.2%	-
1.8%							
115	T19-18-D20	33..501p	2..501p	Always	R exp	8.4%	
	T20-15-D20	32..40p			R exp	8.4%	-
0.4%	T20-17-D19	(c)	(c)		exp	8.4%	-
1.9%	T15-20-B50				R exp	5.5%	-
9.4%							
114	T19-17-D20	32..40p	32..40p	2..501p	ave	8.4%	
	T20-14-D20	33..501p	33..501p		R exp	8.2%	-
0.0%	T20-18-D18				R exp	8.2%	-
0.9%	T20-16-D19			(c)	ave	8.2%	-
1.5%	T19-19-D19	(c)	(c)		exp	8.5%	-
1.7%							
113	T19-16-D20	32..310p	(c)32..60p	(c)32..154p	R pro	8.6%	
!	T20-13-D20	302..501p	61..501p		R exp	8.3%	-
0.4%	T20-17-D18				R exp	8.5%	-
0.9%							

1.6%	T19-18-D19	(c)			pro	8.6%	-
2.4%	T19-16(8)-D20			155..501p	beg	7.6%	-
112	T20-12-D20		2..501p	32..40p	R exp	8.5%	
!							
0.2%	T20-20-D16	2..501p	170..254p		R pro	8.5%	-
0.5%	T20-16-D18	(c)	(c)	(c)	ave	8.6%	-
0.9%	T19-15-D20			33..501p	ave	8.3%	-
111	T19-14-D20		2..501p	2..501p	R exp	8.5%	
!							
0.6%	T20-11-D20				R exp	8.4%	-
0.8%	T20-19-D16	2..501p			R pro	8.4%	-
0.9%	T19-18-D18	(c)	(c)		R exp	8.6%	-
1.4%	T19-16-D19			(c)	ave	8.6%	-
2.2%	T17-20-D20				R pro	8.1%	-
110	T19-13-D20	2..501p	2..501p	32..138p	exp	8.6%	
0.2%	T18-16-D20	90..270p			R pro	8.5%	-
0.4%	T20-10-D20				R exp	8.5%	-
0.5%	T19-17-D18	(c)	(c)		exp	8.7%	-
0.7%	T20-18-D16	271..415p			R pro	8.4%	-
2.1%	T20-16-D17			(c)	ave	8.5%	-
9.1%	T14-T12(9)-D16			139..501p	ave	4.7%	-
	T20-B50				R ave	(2	
	dart)						
109	T20-9-D20		2..501p		R exp	8.4%	
!							
0.2%	T19-12-D20			2..501p	R ave	8.5%	-
0.2%	T20-17-D16	2..501p			R pro	8.4%	-
0.4%	T19-20-D16				R exp	8.5%	-
0.5%	T17-18-D20		(c)		exp	8.5%	-
0.7%	T19-16-D18	(c)		(c)	ave	8.5%	-
7.3%	T14-T9-D20			75..99p	ave	5.7%	-

108	T20-8(16)-D20		32..140p	Always	exp	9.1%	
!	T20-16(8)-D16		141..152p		exp	9.1%	-
0.1%	T16-20-D20	(c)32..90p	(c)		pro	9.1%	-
0.4%	T20-8-D20				R exp	8.9%	-
0.6%	T20-16-D16				R pro	8.8%	-
0.7%	T19-11-D20		153..501p		exp	8.4%	-
1.4%	T19-19-D16	91..501p	161..240p		R pro	8.4%	-
1.6%	T18-18-D18				R pro	8.8%	-
3.4%							
107	T19-10-D20		32..283p	85..160p	R exp	9.3%	
!	T19-18-D16	32..347p			R pro	9.2%	-
0.2%	T19-14-D18	(c)			pro	9.2%	-
0.6%	T19(7)-10-D20			32..84p	ave	8.8%	-
1.3%	T19-16-D17		(c)		exp	9.3%	-
1.6%	T19-10(6)-D20			161..501p	ave	8.2%	-
2.3%	T20-7-D20				R pro	8.7%	-
2.6%	T19(7)-16-D17			(c)	ave	8.8%	-
2.6%	T18-13-D20		284..501p		exp	8.4%	-
2.6%	T20-15-D16	339..501p			R pro	8.4%	-
3.0%	T17-16-D20				R pro	8.7%	-
3.2%	T19-B50				R beg	(2	
	darts)						
106	T20-6(10)-D20		32..77p	(c)	exp	9.1%	
	T16-18-D20	(c)	63..99p	32..40p	exp	9.0%	-
0.2%	T20-10(6)-D18		(c)		exp	9.1%	-
0.2%	T20-6-D20				R exp	8.9%	-
0.5%	T20-14-D16	61..501p	81..501p		R pro	8.5%	-
0.9%	T20-10-D18				R exp	8.9%	-
1.0%	T17-15-D20	32..60p			pro	8.6%	-
1.1%							

1.3%	T18-12-D20		119..141p		exp	8.4%	-
6.2%	T14-T16(8)-D8			48..72p	ave	6.0%	-
6.3%	T14-T8(16)-D20			33..84p	ave	6.0%	-
105	T19-8(16)-D20		(c)2..501p		exp	9.6%	
!	T19-16(8)-D16			130..348p	exp	9.5%	-
0.1%	T16-17-D20	32..60p	61..137p	2..501p	ave	9.4%	-
0.3%	T19-8-D20				R exp	9.3%	-
0.6%	T19-16-D16	61..501p			R pro	9.2%	-
0.7%	T19(7)-8(16)-D20			(c)	ave	9.1%	-
1.6%	T20-13-D16				R pro	8.9%	-
1.7%	T16-19-D19	(c)			pro	9.4%	-
1.9%	T20-5-D20				R pro	8.9%	-
2.0%	T15-20-D20				R pro	8.7%	-
3.1%							
104	T16-16-D20	32..40p	32..220p	(c)32..156p	exp	9.5%	
!	T19-7(19)-D20		(c)		exp	9.7%	-
0.6%	T19-15-D16	33..100p			pro	9.1%	-
1.3%	T16-18-D19	(c)			pro	9.5%	-
1.5%	T20-4-D20				R exp	8.8%	-
1.9%	T18-10-D20		221..501p		R pro	9.0%	-
2.1%	T20-12-D16				R pro	8.5%	-
2.2%	T16-16(8)-D20			157..501p	ave	8.5%	-
2.3%	T18-18-D16	99..501p			R pro	8.9%	-
2.3%	T18-B50				R ave	(2	
	darts)						
103	T19-6(10)-D20		32..80p	Always	exp	10.1%	
!	T19-10(6)-D18		(c)		exp	10.1%	-
0.2%	T19-6-D20	40..40p			R exp	9.8%	-
0.5%	T19-14-D16	32..89p	81..224p		R pro	9.5%	-
0.9%							

1.0%	T19-10-D18	(c)		R exp	9.8%	-	
1.6%	T20-3-D20			R pro	9.5%	-	
2.7%	T20-11-D16		225..501p	R pro	8.9%	-	
2.9%	T17-12-D20			R pro	9.2%	-	
3.1%	T17-20-D16	90..501p		R pro	9.1%	-	
102	T20-10(6)-D16		(c)32..100p	exp	9.6%	-	
0.3%	T14-20-D20	(c)32..65p	2..501p	R ave	9.6%	-	
0.5%	T20-10-D16		95..104p	R exp	9.3%	-	
1.2%	T19-13-D16	62..501p	105..501p	R pro	8.9%	-	
1.4%	T20(5)-10(6)-D16		(c)	ave	9.2%	-	
1.4%	T20-2-D20			R pro	9.0%	-	
101	T19-4(18)-D20		32..40p	exp	10.1%	-	
!	T19-4-D20		34..48p	32..32p	exp	9.9%	-
0.1%	T19-12-D16		33..190p	33..80p	R exp	9.5%	-
0.3%	T19-16(8)-D14			R beg	10.1%	-	
0.4%	T19-8-D18			R ave	9.9%	-	
0.5%	T19-6(10)-D19		(c)	ave	10.1%	-	
0.9%	T19-10(6)-D17		(c)	exp	10.1%	-	
0.9%	T20-9-D16			R pro	9.4%	-	
1.0%	T18-7-D20	40..40p		pro	9.7%	-	
1.1%	T19-16-D14			R exp	9.8%	-	
1.2%	T20-1-D20			R pro	9.4%	-	
1.3%	T16-13-D20		81..501p	ave	9.4%	-	
1.3%	T18-15-D16	2..501p		pro	9.4%	-	
1.5%	T14-19-D20	(c)		beg	9.6%	-	
2.0%	T17-10-D20			R pro	9.1%	-	
2.3%	T17-18-D16			R pro	9.0%	-	
2.5%	T15(10)-16-D20		191..501p	exp	8.7%	-	
3.1%							

	T20-2-D16		106..175p			exp	9.6%	-
8.2%								
	B50-12-D16					R beg	10.1%	-
11.0%								
93	T19-D18	(c)32..376p	(c)32..287p	Always		R exp	14.4%	
!								
	T19-4-D16	377..501p	288..501p			exp	10.0%	-
7.9%								
	T20-1-D16	159..260p				pro	9.5%	-
9.1%								
	B50-3-D20					R beg	9.9%	-
11.0%								
	B50-11-D16					R beg	9.6%	-
11.5%								
92	T20-D16	Always	Always	Always		R exp	15.1%	
!								
	B50-10-D16					R beg	10.3%	-
11.0%								
91	T17-D20	(c)32..272p	Always	(c)		R exp	14.3%	
	T19-D17			32..59p		ave	13.5%	-
3.5%								
	T19-D17(2)			37..80p		ave	13.0%	-
4.3%								
	T14(11)-13-D18			81..173p		ave	10.8%	-
7.0%								
	T18-5-D16	271..350p				pro	9.5%	-
9.6%								
	B50-9-D16					R beg	10.1%	-
10.7%								
90	T18-D18	79..375p	32..103p	(c)32..48p		R exp	15.2%	
	T20-D15	(c)32..88p	(c)			R pro	15.8%	-
1.9%								
	B50-D20					R beg	12.4%	-
4.5%								
	T14(11)-8(16)-D20			44..56p		ave	11.6%	-
5.6%								
	T14-8(16)-D20			33..501p		ave	11.6%	-
5.9%								
	T16-10-D16		102..301p			exp	10.2%	-
7.3%								
	T17-7-D16	159..260p				pro	9.8%	-
8.8%								
89	T19-D16	(c)32..170p	(c)32..89p	Always		R exp	17.8%	
!								
	T15(10)-12-D16		84..134p			exp	10.5%	-
9.3%								
	T18-3-D16		130..501p			exp	10.1%	-
10.7%								
	T16-9-D16	159..310p				pro	9.8%	-
11.1%								
88	T20-D14	(c)32..130p	(c)32..40p			R pro	16.9%	

0.3%	T16-D20	125..450p	33..501p	Always	R	exp	15.5%	-
7.6%	T14(11)-14-D16		121..177p			exp	10.5%	-
87	T17-D18	(c)32..170p	(c)32..65p	(c)32..40p	R	exp	17.6%	-
7.0%	T15(10)-10(6)-D16			33..501p		ave	11.6%	-
7.3%	T15(10)-10-D16		259..501p			exp	11.4%	-
7.7%	T14-13-D16		62..258p			exp	10.8%	-
8.3%	T20-11-D8	159..220p				pro	12.6%	-
8.9%	D20-15-D16	221..501p				pro	12.2%	-
86	T18-D16	(c)32..250p	(c)2..501p	(c)2..501p	R	exp	17.0%	-
!	T14-12-D16			55..135p		ave	11.4%	-
8.1%	D19-16-D16	251..501p				pro	12.7%	-
8.7%	T12(9)-10-D20		99..160p			exp	10.6%	-
9.0%	T12(9)-18-D16		161..207p			exp	10.5%	-
9.2%								
85	T15-D20	(c)32..130p	(c)32..40p	(c)	R	pro	18.1%	-
!	T19-D14				R	pro	17.9%	-
0.4%	T15(10)-D20			2..501p		ave	17.0%	-
0.9%	B50-3-D16	128..501p	33..130p			exp	15.8%	-
1.0%	B25(Left)-20-D20				R	exp	15.0%	-
3.7%	T14(11)-11-D16		128..501p			exp	10.6%	-
9.1%								
84	B50-D17	99..220p	32..108p			exp	17.1%	-
!	T16-D18	(c)32..40p	(c)	2..501p	R	ave	17.8%	-
0.5%	T20-D12	33..100p		(c)	R	pro	17.7%	-
1.3%	B50-2-D16	221..501p	109..205p			exp	15.7%	-
2.2%	T18-D15				R	exp	16.0%	-
5.2%	T12(9)-16(8)-D16		206..501p			exp	11.6%	-
9.6%								
83	T17-D16	(c)32..372p	(c)32..48p	(c)	R	pro	17.7%	-
1.1%	B50(25)-18-D20		33..143p			exp	16.2%	-

	T17-D14				R pro	17.8%	-
11.2%	T11-6(10)-D20		190..501p		ave		
78	T18-D12	(c)32..315p	(c)32..103p		R exp	24.0%	
!	20-18-D20		102..501p	(c)32..130p	ave	21.8%	-
2.9%	T14-D18		131..501p		R ave	19.6%	-
10.3%	T16-D15				R pro		
77	T19-D10	(c)32..310p	(c)32..100p	(c)32..40p	R exp	25.2%	
!	19-18-D20		101..501p	33..501p	ave	22.0%	-
3.9%	T15-D16				R ave	18.7%	-
12.0%							
76	T16-D14	(c)32..60p	(c)32..60p		pro	25.8%	
!	T20-D8	61..400p	61..121p		R exp	24.1%	-
1.3%	20-16-D20		122..501p	(c)32..164p	ave	22.0%	-
4.1%	20-16(8)-D20		165..501p		beg	17.9%	-
10.4%							
75	T17-D12	(c)32..270p	(c)32..116p		R exp	24.4%	
	T19-D9			(c)	ave	23.4%	-
2.2%	T15-D15				R exp	23.2%	-
2.3%	19-16-D20		117..501p	32..164p	ave	21.9%	-
3.3%	19-16(8)-D20			165..501p	beg	17.8%	-
9.7%	B50(25)-18-D16	271..501p			pro	18.6%	-
9.7%	T13-D18				R pro		
74	T14-D16	Always	(c)32..260p	(c)32..59p	R exp	26.0%	
!	18-16-D20		261..501p	33..164p	ave	22.2%	-
5.7%	18-16(8)-D20			165..501p	ave	18.1%	-
11.9%							
73	T19-D8	(c)32..360p	(c)32..120p	(c)32..40p	R exp	25.6%	
	19-14-D20			33..140p	ave	22.3%	-
4.3%	17-16-D20		119..501p	141..164p	ave	21.9%	-
4.7%	T11(14)-D20				R ave	21.7%	-
7.5%	17-16(8)-D20			165..501p	ave	17.8%	-
11.0%							

	T11-D20				R	beg		
72	T16-D12	(c)32..220p	(c)32..130p	(c)	R	exp	26.1%	
!								
	T12-D18				R	pro	25.9%	-
1.0%								
	T20-D6				R	pro	25.0%	-
2.7%								
	16-16-D20			32..165p		ave	22.7%	-
4.8%								
	20-20-D16	262..501p	131..501p			exp	22.1%	-
5.4%								
	D20-D16	221..270p				pro	22.6%	-
5.5%								
	16-16(8)-D20			166..501p		beg	18.6%	-
11.0%								
71	T13-D16	(c)32..310p	Always	2..501p	R	exp	26.0%	
!								
	T11(14)-D19			(c)		ave	25.1%	-
1.8%								
	T17-D10				R	pro	25.2%	-
2.7%								
70	T14-D14	(c)	(c)32..58p			exp	27.1%	
!								
	T14(11)-D14		49..160p	(c)32..40p		exp	26.8%	-
0.2%								
	T10-D20	32..40p			R	exp	26.9%	-
0.3%								
	T18-D8	33..501p			R	pro	25.5%	-
2.6%								
	14(11)-16-D20		161..200p	33..165p		ave	23.4%	-
4.7%								
	T20-D5				R	exp	23.7%	-
6.2%								
	18-20-D16		199..501p			exp	22.3%	-
6.7%								
	14(11)-16(8)-D20			166..501p		beg	20.2%	-
9.5%								
	20-B50				R	ave		
69	T11(14)-D18		(c)32..180p	(c)32..167p		ave	27.1%	
!								
	T15(10)-D12		33..169p			exp	27.0%	-
0.0%								
	T11-D18	(c)40..40p	181..290p	168..501p	R	exp	27.1%	-
0.1%								
	T15-D12	32..230p			R	pro	26.8%	-
0.8%								
	T19-D6				R	pro	26.1%	-
2.9%								
	T13-D15				R	exp	24.3%	-
4.8%								
	T11-4-D16		291..320p			exp	22.6%	-
6.3%								
	17-20-D16	228..501p				pro		

68	T12-D16	Always	(c)2..501p	151..501p	exp	27.2%	
!	T12(9)-D16		33..122p	32..150p	ave	27.1%	-
0.0%	T16-D10				R pro	27.0%	-
0.8%	T20-D4				R pro	27.0%	-
1.3%	T14-D13			(c)	ave	26.4%	-
1.8%	T18-D7				R pro		
	D18-D16				R pro		
67	T9-D20	(c)32..60p	(c)32..161p	32..80p	exp	28.1%	
!	T19(7)-D5			(c)	ave	26.7%	-
2.8%	T17-D8	61..340p			R pro	25.5%	-
4.2%	19-16(8)-D16		162..501p		exp	25.0%	-
4.2%	11-16-D20			81..165p	ave	23.5%	-
6.4%	11-16(8)-D20			166..501p	beg	19.4%	-
12.4%							
66	T14-D12	32..241p	32..174p	(c)	R exp	27.9%	
	T10-D18	(c)	(c)	32..60p	R ave	28.1%	-
0.1%	T10(6)-D18			61..100p	ave	27.4%	-
1.1%	T18-D6				R pro	27.1%	-
2.8%	T16-D9				R exp	26.2%	-
3.1%	T12-D15				R exp	25.3%	-
4.6%	B50-D8	242..501p			R exp	25.0%	-
5.7%	14-20-D16		175..501p		exp	23.5%	-
6.0%	D17-D16				R pro		
	D15-D18				R pro		
	10-16(8)-D20			166..501p	beg		
	10-16-D20			101..165p	ave		
65	B50(25)-D20	(c)32..160p	(c)32..80p	32..40p	R exp	30.8%	
!	T11-D16	159..310p	81..501p	33..501p	R ave	28.1%	-
2.8%	T19(7)-D4			(c)	ave	28.4%	-
3.5%	T19-D4				R ave	28.6%	-
3.5%	T15(10)-D10				R ave	27.0%	-
4.9%							

	T15-D10				R exp	27.0%	-
5.2%							
64	T16(8)-D8	(c)	(c)32..185p	(c)32..64p	exp	30.3%	
!							
	T16-D8		2..501p		R pro	30.1%	-
0.4%							
	16-8(16)-D20			61..70p	ave	26.3%	-
5.5%							
	16-16(8)-D16		186..501p		exp	26.1%	-
5.6%							
	16(8)-8(16)-D20			71..501p	beg	25.7%	-
6.3%							
	T14-D11				R exp	26.1%	-
6.7%							
	D16-D16				R ave		
63	T13-D12	(c)32..357p	32..192p	2..501p	R exp	27.8%	
	T17-D6		(c)		R pro	28.5%	-
0.6%							
	B50(25)-D19				R beg	28.1%	-
1.3%							
	T11-D15				R exp	26.1%	-
3.1%							
	T19(7)-D3			(c)	ave	27.0%	-
3.7%							
	15-16(8)-D16		193..320p		exp	25.0%	-
3.8%							
	13-B50				R beg		
62	T14-D10	(c)	(c)32..76p		R exp	29.4%	
	T10-D16		2..501p	75..226p	R pro	28.2%	-
1.2%							
	T10(6)-D16			227..241p	exp	27.4%	-
2.4%							
	T16(8)-D7			(c)	ave	28.1%	-
2.9%							
	14-8(16)-D20			2..501p	ave	26.1%	-
4.0%							
	14-16(8)-D16		242..501p		exp	26.0%	-
4.2%							
	T12-D13				R exp	26.3%	-
4.7%							
	D15-D16				R pro		
61	B50(25)-D18	(c)32..120p	(c)32..100p	(c)	R exp	32.3%	
!							
	T19(7)-D2			32..64p	ave	30.4%	-
2.6%							
	T7(19)-D20				R beg	29.9%	-
2.8%							
	T15-D8	121..392p	99..120p		R ave	29.4%	-
3.2%							
	T7-D20				R exp	28.9%	-
3.9%							
	T11-D14				R exp	28.1%	-
5.2%							

13-8(16)-D20	63..501p	ave	25.8%	-
7.5%				
13-16(8)-D16	119..275p	exp	25.7%	-
7.6%				
19-10-D16	276..501p	exp	24.9%	-
8.6%				

copyright (c) kari kaitanen 1995