Simulations done in Ped-sim	grands	P-grand	M-grand	half sib	nibling	d1C	hnib	gnib	1C	h1C	1C1R	d2C	h1C1R	2C	2C1R	d3C	3C	3C1R	4C	4C1R	5C	5C1R	6C	6C1R	7C	7C1R	8C	8C1R	9C	9C1R	10C
# simulations	50,000	50,000	50,000	50,000	50,000		50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000	50,000
Total cM: Avg (all segs)	1728.9	1729.3	1728.9	1717.5	1704.8		854.3	840.9	834.7	417.3	409.5	401.6	205.4	200.5	97.8	95.8	47.9	23.3	11.3	5.5	2.7	1.3	0.6	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
Total cM: Avg (segs ≥7cM)	1728.9	1729.3	1728.9	1717.5	1704.8		854.3	840.9	834.7	417.3	409.5	401.6	205.4	200.6	98.5	96.3	51.7	31.3	22.4	18.3	16.2	14.5	14.0	13.4	13.1	12.1	12.4	12.5	12.2	10.7	10.6
Total cM: Max (segs ≥7cM)	2602.5	2696.6	2496.1	2554.5	2394.3		1643.9	1510.7	1415.5	1008.4	962.7	818.2	637.6	595.3	381.6	402.4	293.0	222.0	119.4	107.8	109.6	64.8	64.3	45.2	42.2	34.5	31.3	31.3	20.1	19.8	19.9
Total cM: Min (segs ≥7cM)	849.4	779.5	986.0	881.2	1030.4		229.9	278.0	344.8	51.1	69.3	98.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total cM: s.d. (segs ≥7cM)	214.4	215.0	193.8	173.5	162.7		170.3	150.5	137.1	114.5	104.9	95.7	79.3	73.6	50.0	47.8	33.9	22.8	15.3	10.3	7.0	4.6	3.2	2.2	1.5	1.0	0.7	0.5	0.3	0.2	0.1
Longest segment: Avg (all segs)	178.2	178.7	164.3	136.0	124.3		108.8	87.8	79.6	67.8	59.3	52.8	49.5	44.4	32.9	30.6	23.6	15.7	9.6	5.6	3.0	1.6	0.8	0.4	0.2	0.1	0.1	0.0	0.0	0.0	0.0
Longest segment: Avg (segs ≥7cM)	178.2	178.7	164.3	136.0	124.3		108.8	87.8	79.6	67.8	59.3	52.8	49.5	44.4	33.1	30.7	25.1	20.2	17.4	15.9	15.0	13.8	13.6	13.1	13.0	11.9	12.3	12.5	12.2	10.7	10.6
Longest segment: Max (segs ≥7cM)	276.5	276.5	276.5	276.5	276.5		276.5	268.2	234.2	265.7	181.5	188.7	210.0	183.6	141.7	119.2	126.3	117.9	96.9	87.4	65.9	64.8	51.4	45.2	42.2	29.9	31.3	31.3	20.1	19.8	19.9
Longest segment: Min (segs ≥7cM)	74.6	65.1	72.7	52.4	54.1		34.3	29.3	32.7	16.1	18.7	16.7	1.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Longest segment: s.d. (segs ≥7cM)	38.0	38.2	34.0	34.1	28.3		28.9	23.5	21.3	21.5	17.7	15.1	17.9	15.3	13.7	12.3	12.8	11.8	10.3	8.3	6.3	4.4	3.2	2.3	1.5	1.0	0.7	0.5	0.3	0.2	0.2
# segments: Avg (all segs)	26.6	26.6	30.1	39.9	45.6		21.8	28.1	30.5	15.2	17.3	18.9	8.6	9.5	5.1	5.3	2.7	1.4	0.7	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# segments: Avg (segs ≥7cM)	26.6	26.6	30.1	39.9	45.6		21.8	28.1	30.5	15.2	17.3	18.9	8.6	9.5	5.1	5.4	2.9	1.9	1.4	1.2	1.1	1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
# segments: Max (segs ≥7cM)	42.0	44.0	42.0	63.0	65.0		37.0	47.0	51.0	32.0	34.0	37.0	23.0	24.0	16.0	18.0	13.0	12.0	7.0	5.0	4.0	4.0	3.0	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
# segments: Min (segs ≥7cM)	13.0	12.0	17.0	21.0	30.0		8.0	11.0	14.0	3.0	4.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
# segments: s.d. (segs ≥7cM)	4.4	4.4	3.0	6.9	4.1		3.6	4.5	4.4	3.7	3.8	3.9	2.9	3.0	2.3	2.3	1.7	1.2	0.9	0.6	0.4	0.3	0.2	0.2	0.1	0.1	0.0	0.0	0.0	0.0	0.0
non-match: count	0	0	0	0	0		0	0	0	0	0	0	4	2	338	249	3648	12887	24880	34974	41775	45665	47718	48845	49474	49722	49881	49932	49975	49983	49992
non-match: %	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.7%	0.5%	7.3%	25.8%	49.8%	69.9%	83.6%	91.3%	95.4%	97.7%	98.9%	99.4%	99.8%	99.9%	100.0%	100.0%	100.0%
2.5 kids/ generation: Avg # cousins									8		19			38	94		188	469	938	2,344	4,688	11,719	23,438	58,594	117,188	292,969	585,938	1,464,844	2,929,688	7,324,219	14,648,438
2.5 kids/ generation: Avg # matches									8		19			37	93		174	348	471	704	771	1,016	1,070	1,354	1,233	1,629	1,395	1,992	1,465	2,490	2,344
2.5 kids/ generation: Avg # matches 7–20cM														0	2		28	128	262	477	581	834	900	1,172	1,080	1,512	1,242	1,904	1,406	2,490	2,344
variable model: Avg # cousins																															
variable model: Avg # matches																															
variable model: Avg # matches 7–20cM																															
Longest ≥10cM	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.3%	98.4%	87.2%	64.5%	40.0%	22.6%	11.9%	5.9%	3.0%	1.4%	0.7%	0.3%	0.1%	0.1%	0.0%	0.0%	0.0%
Longest ≥20cM	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	98.8%	98.3%	84.8%	81.7%	57.1%	31.6%	15.3%	7.2%	3.3%	1.3%	0.7%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥30cM	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	100.0%	100.0%	99.6%	99.0%	98.1%	90.0%	84.9%	53.9%	46.5%	26.8%	11.7%	4.9%	1.9%	0.8%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥40cM	100.0%	100.0%	100.0%	100.0%	100.0%		100.0%	99.9%	99.8%	94.9%	89.9%	81.5%	67.4%	56.3%	25.5%	19.2%	10.3%	3.6%	1.4%	0.4%	0.2%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥50cM	100.0%	100.0%	100.0%	100.0%	100.0%		99.9%	98.5%	96.5%	80.1%	67.1%	50.9%	42.0%	29.6%	10.5%	6.9%	3.6%	1.1%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥60cM	100.0%	100.0%	100.0%	100.0%	100.0%		98.9%	91.6%	84.0%	58.8%	41.3%	26.2%	23.3%	13.8%	4.0%	2.4%	1.2%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥70cM	100.0%	100.0%	100.0%	99.8%	99.7%		94.6%	77.0%	62.8%	38.6%	22.7%	12.2%	12.0%	6.2%	1.5%	0.9%	0.4%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥80cM	100.0%	100.0%	100.0%	98.5%	97.7%		85.2%	57.6%	42.0%	23.7%	11.8%	5.4%	6.0%	2.8%	0.6%	0.3%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥90cM	99.9%	99.9%	99.9%	94.8%	91.9%		72.0%	39.9%	26.1%	13.9%	6.0%	2.4%	3.1%	1.3%	0.2%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest ≥100cM	99.7%	99.6%	99.4%	87.4%	81.3%		57.1%	26.2%	15.5%	8.2%	2.9%	1.1%	1.5%	0.5%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Longest <10cM	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.7%	1.6%	12.8%	35.5%	60.0%	77.4%	88.1%	94.1%	97.0%	98.6%	99.3%	99.7%	99.9%	99.9%	100.0%	100.0%	100.0%
Longest <20cM	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	1.2%	1.7%	15.2%	18.3%	42.9%	68.4%	84.7%	92.8%	96.7%	98.7%	99.3%	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <30cM	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.0%	0.0%	0.4%	1.0%	1.9%	10.0%	15.1%	46.1%	53.5%	73.2%	88.3%	95.1%	98.1%	99.2%	99.8%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <40cM	0.0%	0.0%	0.0%	0.0%	0.0%		0.0%	0.1%	0.2%	5.1%	10.1%	18.5%	32.6%	43.7%	74.5%	80.8%	89.7%	96.4%	98.6%	99.6%	99.8%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <50cM	0.0%	0.0%	0.0%	0.0%	0.0%		0.1%	1.5%	3.5%	19.9%	32.9%	49.1%	58.1%	70.4%	89.5%	93.1%	96.4%	98.9%	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <60cM	0.0%	0.0%	0.0%	0.0%	0.0%		1.1%	8.4%	16.0%	41.2%	58.7%	73.8%	76.7%	86.2%	96.0%	97.6%	98.8%	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <70cM	0.0%	0.0%	0.0%	0.2%	0.3%		5.4%	23.0%	37.2%	61.4%	77.3%	87.8%	88.0%	93.8%	98.5%	99.1%	99.6%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <80cM	0.0%	0.0%	0.0%	1.5%	2.3%		14.8%	42.4%	58.0%	76.3%	88.2%	94.6%	94.0%	97.2%	99.4%	99.7%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <90cM	0.1%	0.1%	0.1%	5.2%	8.1%		28.0%	60.1%	73.9%	86.1%	94.0%	97.6%	96.9%	98.8%	99.8%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
Longest <100cM	0.4%	0.4%	0.6%	12.6%	18.7%		42.9%	73.8%	84.5%	91.8%	97.1%	98.9%	98.5%	99.5%	99.9%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%