

Population			RMSE						IC						CCC						
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	2x	5	2	0.01 (PD)	0.00 (VR)	0.02 (MM)	0.01 (PD)	0.01 (MN)	0.00 (VR)	0.02 (RI)	0.35 (ML)	0.19 (ML)	0.10 (VR,PI0.13 (PD))	0.10 (LO)	0.25 (ML)	0.45 (ML)	0.13 (ML)	[0.12, 0.15]	0.17 (MM)	[0.15, 0.19]	
uni	2x	5	3	0.01 (MM)	0.00 (RI)	0.02 (WE)	0.02 (WE)	0.00 (RI)	0.00 (RI)	0.06 (WE)	0.63 (ML)	0.20 (ML,RI0.16 (MM))	0.30 (WE)	0.20 (RI,LI0.30 (WE))	0.50 (ML)	0.25 (LO)	[0.21, 0.28]	0.27 (LO)	[0.19, 0.35]		
uni	2x	5	4	0.01 (MM)	0.01 (LO)	0.00 (MM)	0.01 (WE)	0.00 (MN)	0.01 (LO)	0.07 (WE)	0.55 (ML)	0.30 (RI,LI0.30 (WE))	0.20 (RI,LI0.20 (RI))	0.32 (ML)	0.52 (ML)	0.32 (ML)	[0.31, 0.34]	0.41 (ML)	[0.38, 0.43]		
uni	2x	5	5	0.00 (MM)	0.00 (WE)	0.01 (MM)	0.00 (MM)	0.00 (MN)	0.01 (RI)	0.09 (MM)	0.70 (ML)	0.22 (ML)	0.30 (RI,LI0.20 (RI,LI0.20 (RI,LI0.20 (RI,LI0.35 (ML)))	0.53 (ML)	0.38 (ML)	[0.36, 0.39]	0.51 (ML)	[0.48, 0.53]			
uni	2x	5	10	0.00 (MM)	0.02 (ML)	0.01 (MM)	0.01 (RI)	0.02 (ML)	0.00 (MM)	0.06 (WE)	0.77 (ML)	0.30 (RI)	0.30 (RI)	0.30 (LO,WI0.60 (LO))	0.40 (ML)	0.60 (ML)	0.54 (ML)	[0.53, 0.56]	0.70 (ML)	[0.68, 0.71]	
uni	2x	5	15	0.01 (MM)	0.01 (MM)	0.02 (MM)	0.00 (MM)	0.00 (ML)	0.02 (ML)	0.07 (WE)	0.88 (MM)	0.60 (LO)	0.26 (MM,MI0.40 (LO))	0.23 (MM)	0.48 (ML)	0.63 (ML)	0.59 (ML)	[0.58, 0.60]	0.75 (ML)	[0.73, 0.76]	
uni	2x	5	20	0.00 (LO)	0.00 (MM)	0.00 (ML)	0.02 (MM)	0.01 (MN)	0.01 (LO)	0.07 (WE)	0.84 (MM)	0.50 (RI,LI0.40 (WE))	0.22 (ML)	0.30 (RI,LI0.50 (RI))	0.66 (ML)	0.63 (ML)	[0.62, 0.64]	0.80 (ML)	[0.78, 0.81]		
uni	2x	10	2	0.02 (MM)	0.00 (LO)	0.00 (MM)	0.02 (MM)	0.01 (MN)	0.01 (MM)	0.05 (WE)	0.60 (ML)	0.27 (ML)	0.20 (WE)	0.16 (VR,PI0.20 (LO))	0.25 (ML)	0.49 (ML)	0.23 (LO)	[0.19, 0.27]	0.28 (PD)	[0.26, 0.30]	
uni	2x	10	3	0.00 (MM)	0.00 (RI)	0.00 (MM)	0.00 (MM)	0.01 (MN)	0.00 (MM)	0.06 (WE)	0.79 (ML)	0.23 (ML)	0.20 (LO)	0.21 (ML)	0.16 (ML)	0.30 (WE)	0.53 (ML)	0.41 (ML)	[0.39, 0.42]	0.45 (ML)	[0.43, 0.48]
uni	2x	10	4	0.00 (RI)	0.00 (ML)	0.00 (LO)	0.01 (ML)	0.00 (MN)	0.02 (MM)	0.06 (WE)	0.75 (ML)	0.30 (RI)	0.26 (MM)	0.50 (WE)	0.18 (ML)	0.40 (LO)	0.54 (ML)	0.50 (ML)	[0.49, 0.52]	0.62 (ML)	[0.60, 0.65]
uni	2x	10	5	0.00 (MM)	0.01 (LO)	0.00 (ML)	0.00 (MM)	0.01 (ML)	0.00 (MM)	0.06 (WE)	0.74 (ML)	0.30 (RI,LI0.30 (RI))	0.33 (ML)	0.40 (LO)	0.40 (RI)	0.56 (ML)	0.56 (ML)	[0.54, 0.57]	0.70 (ML)	[0.68, 0.72]	
uni	2x	10	10	0.01 (MM)	0.01 (MM)	0.01 (LO)	0.00 (MM)	0.00 (MN)	0.01 (WE)	0.07 (WE)	0.83 (ML)	0.50 (RI)	0.34 (MM,MI0.40 (RI))	0.36 (ML)	0.40 (RI,WI0.63 (ML))	0.69 (ML)	[0.68, 0.70]	0.81 (ML)	[0.79, 0.82]		
uni	2x	10	15	0.00 (MM)	0.01 (LO)	0.00 (ML)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.07 (WE)	0.85 (ML)	0.50 (RI)	0.37 (ML)	0.36 (MM,MI0.35 (MM))	0.48 (ML)	0.68 (ML)	0.70 (ML)	[0.68, 0.71]	0.86 (ML)	[0.85, 0.87]	
uni	2x	10	20	0.00 (MM)	0.00 (MM)	0.00 (LO)	0.00 (ML)	0.01 (LO)	0.01 (ML)	0.07 (WE)	0.89 (MM,MI0.30 (WE))	0.40 (LO,WE0.50 (LO))	0.40 (RI,LI0.58 (ML))	0.71 (ML)	0.73 (ML)	[0.72, 0.74]	0.88 (ML)	[0.87, 0.89]			
uni	2x	15	2	0.02 (MM)	0.00 (ML)	0.02 (MM)	0.00 (PD)	0.01 (VR)	0.01 (MM)	0.06 (WE)	0.71 (ML)	0.15 (ML)	0.20 (MM,MI0.12 (PD))	0.40 (LO)	0.30 (LO)	0.50 (ML)	0.33 (ML)	[0.31, 0.34]	0.44 (LO)	[0.36, 0.51]	
uni	2x	15	3	0.00 (MM)	0.02 (MM)	0.01 (MN)	0.02 (MM)	0.03 (MM)	0.06 (WE)	0.66 (ML)	0.30 (LO)	0.17 (ML)	0.40 (WE)	0.30 (WE)	0.27 (ML)	0.54 (ML)	0.51 (ML)	[0.49, 0.52]	0.60 (ML)	[0.58, 0.62]	
uni	2x	15	4	0.02 (MM)	0.01 (ML)	0.01 (MM)	0.01 (ML)	0.01 (MN)	0.01 (WE)	0.05 (WE)	0.81 (ML)	0.30 (RI)	0.40 (RI,LI0.32 (ML))	0.30 (WE)	0.39 (ML)	0.57 (ML)	0.60 (ML)	[0.59, 0.61]	0.70 (ML)	[0.68, 0.72]	
uni	2x	15	5	0.00 (MM)	0.00 (WE)	0.01 (ML)	0.01 (MM)	0.00 (RI)	0.00 (MM)	0.07 (WE)	0.80 (ML)	0.34 (ML)	0.50 (RI)	0.40 (RI)	0.27 (MM)	0.40 (ML,RI0.59 (ML))	0.65 (ML)	[0.64, 0.67]	0.77 (ML)	[0.75, 0.78]	
uni	2x	15	10	0.00 (MM)	0.00 (ML)	0.01 (MM)	0.00 (ML)	0.00 (MN)	0.00 (MM)	0.07 (WE)	0.85 (ML)	0.60 (RI)	0.60 (WE)	0.41 (ML)	0.50 (RI,LI0.53 (ML))	0.66 (ML)	0.74 (ML)	[0.73, 0.75]	0.86 (ML)	[0.85, 0.87]	
uni	2x	15	15	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.06 (WE)	0.90 (ML)	0.41 (ML)	0.44 (MM)	0.52 (ML)	0.41 (MM,MI0.50 (WE))	0.73 (ML)	0.75 (ML)	[0.74, 0.76]	0.90 (ML)	[0.89, 0.90]	
uni	2x	15	20	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.01 (WE)	0.01 (ML)	0.07 (WE)	0.96 (ML)	0.42 (ML)	0.60 (LO)	0.52 (MM)	0.70 (LO)	0.63 (ML)	0.75 (ML)	0.76 (WE)	[0.73, 0.78]	0.90 (ML)	[0.89, 0.90]
uni	2x	20	2	0.01 (WE)	0.00 (WE)	0.00 (VR)	0.00 (WE)	0.00 (WE)	0.00 (WE)	0.07 (WE)	0.74 (ML)	0.30 (LO)	0.20 (WE)	0.30 (WE)	0.24 (ML)	0.39 (ML)	0.53 (ML)	0.40 (ML)	[0.38, 0.42]	0.49 (ML)	[0.47, 0.52]
uni	2x	20	3	0.00 (LO)	0.00 (MM)	0.00 (MM)	0.00 (MM)	0.01 (MN)	0.02 (MM)	0.06 (WE)	0.77 (ML)	0.40 (LO,WE0.30 (WE))	0.40 (RI)	0.20 (ML,RI0.50 (RI))	0.55 (ML)	0.60 (ML)	[0.59, 0.61]	0.70 (ML)	[0.68, 0.71]		
uni	2x	20	4	0.01 (RI)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.01 (MN)	0.01 (MM)	0.07 (WE)	0.77 (ML)	0.40 (RI)	0.40 (LO)	0.34 (ML)	0.50 (RI,WE0.44 (ML))	0.59 (ML)	0.67 (ML)	[0.66, 0.68]	0.77 (ML)	[0.75, 0.78]	
uni	2x	20	5	0.00 (MM)	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.01 (MN)	0.00 (MM)	0.06 (WE)	0.85 (ML)	0.39 (ML)	0.27 (MM)	0.38 (ML)	0.38 (MM,MI0.46 (ML))	0.61 (ML)	0.70 (ML)	[0.69, 0.71]	0.81 (ML)	[0.80, 0.83]	
uni	2x	20	10	0.00 (LO)	0.00 (ML)	0.06 (WE)	0.93 (ML)	0.40 (LO,WE0.45 (MM,MI0.44 (MM)))	0.44 (MM)	0.60 (WE)	0.69 (ML)	0.75 (ML)	[0.74, 0.76]	0.89 (ML)	[0.88, 0.90]						
uni	2x	20	15	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.06 (WE)	0.93 (ML)	0.52 (ML)	0.70 (RI)	0.53 (MM)	0.60 (RI)	0.64 (ML)	0.74 (ML)	0.81 (WE)	[0.79, 0.83]	0.92 (ML)	[0.91, 0.92]
uni	2x	20	20	0.00 (MM)	0.01 (ML)	0.00 (LO)	0.02 (ML)	0.02 (ML)	0.02 (ML)	0.06 (WE)	0.97 (ML)	0.62 (ML)	0.54 (MM)	0.60 (LO)	0.70 (RI,LI0.67 (ML))	0.79 (ML)	0.82 (WE)	[0.80, 0.84]	0.93 (ML)	[0.92, 0.93]	
uni	2x	50	2	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.01 (MM)	0.00 (PD)	0.00 (VR)	0.06 (WE)	0.79 (ML)	0.49 (ML)	0.32 (MM)	0.50 (WE)	0.50 (WE)	0.38 (ML)	0.57 (ML)	0.64 (ML)	[0.63, 0.66]	0.74 (ML)	[0.73, 0.76]
uni	2x	50	3	0.01 (MM)	0.00 (MM)	0.00 (MM)	0.01 (ML)	0.00 (MN)	0.01 (RI)	0.06 (WE)	0.89 (ML)	0.60 (RI)	0.50 (RI,LI0.70 (LO))	0.60 (WE)	0.60 (LO)	0.62 (ML)	0.72 (ML)	[0.71, 0.73]	0.85 (ML)	[0.84, 0.86]	
uni	2x	50	4	0.00 (MM)	0.01 (ML)	0.00 (MM)	0.00 (MM)	0.00 (MN)	0.00 (LO)	0.07 (WE)	0.91 (ML)	0.70 (RI)	0.50 (WE)	0.51 (ML)	0.80 (WE)	0.70 (RI,LI0.66 (ML))	0.75 (ML)	[0.74, 0.76]	0.89 (ML)	[0.89, 0.90]	
uni	2x	50	5	0.01 (LO)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (MM)	0.07 (WE)	0.93 (ML)	0.50 (RI,LI0.54 (MM))	0.60 (RI)	0.60 (WE)	0.70 (WE)	0.69 (ML)	0.80 (WE)	[0.78, 0.83]	0.92 (ML)	[0.91, 0.92]	
uni	2x	50	10	0.00 (MM)	0.00 (WE)	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.07 (WE)	0.99 (ML)	0.70 (RI)	0.70 (RI,WE0.72 (ML))	0.65 (MM)	0.76 (ML)	0.78 (ML)	0.85 (WE)	[0.83, 0.87]	0.95 (ML)	[0.94, 0.95]	
uni	2x	50	15	0.00 (MM)	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.06 (WE)	1.00 (MM,MI0.70 (RI,LI0.69 (ML))	0.90 (LO)	0.70 (RI)	0.60 (WE)	0.60 (RI)	0.83 (ML)	0.89 (WE)	[0.88, 0.91]	0.96 (ML)	[0.96, 0.96]	
uni	2x	50	20	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.01 (ML)	0.00 (RI)	0.01 (RI)	0.07 (WE)	0.98 (MM,MI0.70 (LO))	0.90 (RI)	0.80 (RI)	0.90 (WE)	0.90 (LO,WE0.86 (ML))	0.90 (WE)	0.96 (ML)	[0.89, 0.91]	0.96 (ML)	[0.96, 0.96]	

Population			RMSE						IC						CCC						
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	2x	100	2	0.00 (MM)	0.00 (MM)	0.00 (MM)	0.00 (PD)	0.00 (MM)	0.00 (MM)	0.06 (WE)	0.83 (ML)	0.53 (MM, M10.40 (LO))	0.50 (LO)	0.44 (MM)	0.48 (ML)	0.62 (ML)	0.74 (ML)	[0.73, 0.75]	0.86 (ML)	[0.85, 0.87]	
uni	2x	100	3	0.00 (MM)	0.01 (MM)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.00 (MM)	0.06 (WE)	0.97 (ML)	0.80 (LO)	0.52 (ML)	0.58 (ML)	0.70 (LO)	0.60 (ML)	0.69 (ML)	0.84 (WE)	[0.83, 0.86]	0.92 (ML)	[0.92, 0.93]
uni	2x	100	4	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.00 (MM)	0.06 (WE)	0.95 (ML)	0.90 (LO)	0.80 (RI)	0.70 (RI)	0.61 (ML)	0.64 (ML)	0.74 (ML)	0.86 (WE)	[0.84, 0.87]	0.94 (ML)	[0.93, 0.94]
uni	2x	100	5	0.00 (MM)	0.00 (LO)	0.00 (LD)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.06 (WE)	0.98 (ML)	0.74 (ML)	0.90 (RI)	0.72 (ML)	0.70 (RI)	0.80 (LO)	0.76 (ML)	0.86 (WE)	[0.85, 0.88]	0.95 (ML)	[0.95, 0.95]
uni	2x	100	10	0.00 (ML)	0.01 (MM)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.06 (WE)	1.00 (MM, M10.80 (MM, M10.75 (MM, M10.100 (LO)))	0.90 (RI)	0.90 (RI)	0.86 (ML)	0.93 (WE)	[0.92, 0.93]	0.97 (ML)	[0.96, 0.97]			
uni	2x	100	15	0.00 (LO)	0.00 (RI)	0.01 (RI)	0.01 (LO)	0.00 (LO)	0.01 (RI)	0.06 (WE)	1.00 (MM, M10.80 (MM))	1.00 (RI)	0.90 (RI, L10.100 (RI, L10.94 (ML)))	0.88 (ML)	0.93 (WE)	[0.92, 0.94]	0.98 (LO)	[0.97, 0.98]			
uni	2x	100	20	0.00 (MM)	0.01 (ML)	0.01 (ML)	0.01 (LO)	0.01 (RI)	0.06 (WE)	1.00 (MM, M10.90 (WE))	0.82 (ML)	0.92 (ML)	0.90 (RI)	0.90 (RI, L10.89 (ML))	0.95 (WE)	[0.94, 0.95]	0.98 (LO)	[0.97, 0.98]			
uni	2x	500	2	0.01 (ML)	0.00 (VR)	0.00 (ML)	0.00 (ML)	0.00 (PD)	0.06 (WE)	1.00 (ML)	0.80 (WE)	0.82 (PD)	0.82 (ML)	0.80 (ML, P10.78 (VR))	0.78 (ML)	0.91 (WE)	[0.90, 0.92]	0.96 (ML)	[0.96, 0.96]		
uni	2x	500	3	0.00 (LO)	0.00 (LO)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.07 (WE)	1.00 (ML, L10.100 (RI))	1.00 (LO)	0.94 (ML)	0.90 (RI, L10.100 (LO))	0.85 (ML)	0.94 (WE)	[0.93, 0.94]	0.97 (ML)	[0.97, 0.98]		
uni	2x	500	4	0.00 (MM)	0.00 (RI)	0.01 (LO)	0.00 (ML)	0.00 (LO)	0.00 (RI)	0.06 (WE)	1.00 (MM, M10.99 (ML))	1.00 (LO)	1.00 (RI)	1.00 (RI, L10.87 (ML))	0.95 (WE)	[0.94, 0.96]	0.98 (LO)	[0.97, 0.98]			
uni	2x	500	5	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM, M10.100 (RI))	1.00 (RI, L10.100 (RI, L10.100 (RI, L10.89 (ML))))	0.96 (WE)	[0.95, 0.96]	0.98 (LO)	[0.98, 0.99]						
uni	2x	500	10	0.00 (MM)	0.00 (RI)	0.00 (LO)	0.00 (RI)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM, M10.100 (RI, L10.100 (MM, M10.100 (RI))))	1.00 (RI, L10.100 (MM, M10.90 (ML)))	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]					
uni	2x	500	15	0.00 (ML)	0.00 (LO)	0.00 (RI)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.07 (WE)	1.00 (MM, M10.100 (ML, R10.100 (MM, M10.100 (LO))))	1.00 (MM, M10.90 (ML))	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]					
uni	2x	500	20	0.00 (ML)	0.01 (LO)	0.01 (LO)	0.00 (LO)	0.01 (LO)	0.07 (WE)	1.00 (MM, M10.100 (RI, L10.100 (MM, M10.100 (ML, R10.100 (MM, R10.90 (ML, R10.96 (WE)))))))	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]								
uni	2x	1000	2	0.00 (LO)	0.00 (MM)	0.00 (MM)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.06 (WE)	1.00 (ML)	1.00 (WE)	0.92 (MM, M10.95 (MM, M10.100 (LO)))	0.89 (ML)	0.85 (ML)	0.94 (WE)	[0.93, 0.95]	0.97 (ML)	[0.97, 0.98]		
uni	2x	1000	3	0.00 (MM)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (LO)	0.07 (WE)	1.00 (MM, M10.100 (ML, R10.98 (MM)))	1.00 (LO)	0.99 (ML)	0.98 (ML)	0.88 (ML)	0.96 (WE)	[0.95, 0.96]	0.98 (LO)	[0.98, 0.99]		
uni	2x	1000	4	0.00 (ML)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.06 (WE)	1.00 (MM, M10.100 (ML, R10.100 (LO)))	1.00 (LO)	1.00 (RI)	1.00 (RI, L10.100 (MM, M10.90 (ML)))	0.97 (WE)	[0.96, 0.97]	0.99 (LO)	[0.98, 0.99]			
uni	2x	1000	5	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM, M10.100 (MM, M10.100 (ML, R10.100 (MM, M10.100 (RI, L10.100 (MM, M10.90 (ML, R10.96 (WE))))))))	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]							
uni	2x	1000	10	0.00 (ML)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.00 (LO)	0.00 (RI)	0.07 (WE)	1.00 (MM, M10.100 (MM, M10.100 (MM, M10.100 (MM, M10.100 (MM, M10.90 (ML))))))	1.00 (MM, M10.90 (ML))	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 1.00]					
uni	2x	1000	15	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM, M10.100 (MM, M10.100 (MM, M10.100 (MM, M10.100 (MM, M10.90 (ML, R10.97 (WE)))))))	[0.97, 0.98]	0.99 (LO)	[0.99, 0.99]							
uni	2x	1000	20	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM, M10.100 (MM, M10.100 (MM, M10.100 (MM, M10.100 (MM, M10.90 (ML, R10.97 (WE)))))))	[0.97, 0.97]	1.00 (LO)	[0.99, 1.00]							
uni	4x	5	2	0.00 (ML)	0.04 (ML)	0.04 (VR)	0.03 (WE)	0.01 (WE)	0.03 (FA)	0.03 (PD)	0.10 (ML, L10.04 (ML, F10.23 (MM)))	0.17 (MM)	0.14 (FA)	0.46 (PD)	0.72 (PD)	0.11 (VR)	[0.10, 0.12]	0.15 (VR)	[0.13, 0.17]		
uni	4x	5	3	0.05 (ML)	0.09 (ML)	0.04 (MM)	0.05 (ML)	0.02 (MM)	0.01 (RI)	0.07 (RI)	0.28 (ML)	0.30 (LO)	0.20 (ML)	0.20 (LO, W10.20 (LO, W10.21 (ML)))	0.47 (ML)	0.09 (ML)	[0.08, 0.11]	0.18 (LO)	[0.10, 0.26]		
uni	4x	5	4	0.07 (WE)	0.12 (ML)	0.04 (MM)	0.04 (MM)	0.01 (MM)	0.02 (MM)	0.08 (WE)	0.30 (ML, R10.20 (ML, R10.24 (ML)))	0.23 (ML)	0.30 (LO)	0.30 (WE)	0.47 (ML)	0.16 (ML)	[0.14, 0.17]	0.20 (LO)	[0.10, 0.30]		
uni	4x	5	5	0.09 (ML)	0.16 (ML)	0.03 (MM)	0.01 (ML)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.27 (ML)	0.21 (ML)	0.32 (ML)	0.21 (ML)	0.30 (RI)	0.30 (RI)	0.48 (ML)	0.19 (WE)	[0.15, 0.23]	0.23 (ML)	[0.19, 0.26]
uni	4x	5	10	0.11 (ML)	0.13 (ML)	0.00 (RI)	0.01 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.30 (RI)	0.13 (MM, M10.35 (ML))	0.37 (ML)	0.30 (RI, L10.31 (ML))	0.53 (ML)	0.32 (WE)	[0.27, 0.37]	0.40 (ML)	[0.36, 0.43]		
uni	4x	5	15	0.11 (ML)	0.16 (LO)	0.00 (LO)	0.02 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.23 (ML)	0.12 (ML)	0.49 (ML)	0.31 (ML)	0.40 (RI, L10.37 (ML))	0.56 (ML)	0.37 (ML)	[0.35, 0.39]	0.44 (ML)	[0.41, 0.47]	
uni	4x	5	20	0.12 (LO)	0.18 (ML)	0.01 (LO)	0.04 (ML)	0.01 (ML)	0.01 (WE)	0.08 (WE)	0.20 (LO)	0.14 (ML)	0.70 (RI, W10.40 (LO, W10.50 (WE)))	0.37 (ML)	0.58 (ML)	0.40 (WE)	[0.34, 0.45]	0.55 (ML)	[0.53, 0.58]		
uni	4x	10	2	0.00 (VR)	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.01 (LO)	0.00 (MM)	0.03 (PD)	0.20 (WE)	0.15 (ML)	0.21 (MM)	0.18 (MM)	0.18 (VR)	0.35 (PD)	0.71 (PD)	0.19 (VR)	[0.18, 0.20]	0.27 (VR)	[0.24, 0.29]
uni	4x	10	3	0.10 (ML)	0.06 (RI)	0.02 (MM)	0.01 (ML)	0.00 (MM)	0.02 (MM)	0.09 (WE)	0.20 (RI, L10.30 (RI))	0.18 (ML)	0.20 (ML, L10.20 (LO, W10.20 (LO, W10.48 (ML)))	0.19 (ML)	[0.17, 0.20]	0.20 (ML)	[0.17, 0.23]				
uni	4x	10	4	0.08 (LO)	0.06 (RI)	0.01 (MM)	0.01 (WE)	0.04 (ML)	0.01 (MM)	0.07 (WE)	0.20 (LO, W10.20 (LO, W10.20 (LO)))	0.30 (LO)	0.30 (WE)	0.32 (ML)	0.51 (ML)	0.21 (ML)	[0.19, 0.23]	0.29 (ML)	[0.26, 0.32]		
uni	4x	10	5	0.07 (RI)	0.20 (ML)	0.02 (MM)	0.02 (ML)	0.01 (MM)	0.04 (MM)	0.08 (WE)	0.30 (RI)	0.10 (ML, R10.28 (ML))	0.29 (ML)	0.20 (RI)	0.50 (LO)	0.52 (ML)	0.26 (ML)	[0.24, 0.28]	0.34 (ML)	[0.30, 0.37]	
uni	4x	10	10	0.12 (ML)	0.17 (ML)	0.00 (WE)	0.05 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.15 (ML)	0.10 (ML, R10.44 (ML))	0.32 (ML)	0.40 (LO)	0.40 (ML)	0.59 (ML)	0.35 (ML)	[0.33, 0.36]	0.50 (ML)	[0.47, 0.53]	
uni	4x	10	15	0.14 (ML)	0.14 (LO)	0.00 (WE)	0.06 (ML)	0.00 (MM)	0.01 (MM)	0.07 (WE)	0.20 (LO, W10.10 (RI, L10.50 (ML, R10.28 (ML))))	0.40 (RI, L10.60 (WE))	0.63 (ML)	0.40 (ML)	0.40 (ML)	[0.38, 0.41]	0.55 (ML)	[0.52, 0.58]			
uni	4x	10	20	0.14 (ML)	0.19 (ML)	0.01 (ML)	0.06 (ML)	0.00 (ML)	0.01 (LO)	0.08 (WE)	0.04 (ML)	0.05 (ML)	0.50 (LO)	0.36 (ML)	0.50 (LO, W10.55 (ML))	0.66 (ML)	0.43 (WE)	[0.39, 0.47]	0.59 (ML)	[0.56, 0.61]	

Population			RMSE						IC						CCC						
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	4x	15	2	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.02 (MM)	0.03 (PD)	0.17 (ML,VI)	0.17 (ML)	0.22 (VR)	0.12 (MM)	0.17 (VR)	0.37 (PD)	0.71 (PD)	0.26 (VR)	[0.25, 0.27]	0.35 (VR)	[0.33, 0.37]
uni	4x	15	3	0.07 (ML)	0.17 (ML)	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.01 (WE)	0.09 (WE)	0.14 (ML)	0.15 (ML)	0.24 (ML)	0.16 (ML)	0.20 (RI)	0.22 (ML)	0.52 (ML)	0.20 (ML)	[0.18, 0.21]	0.24 (ML)	[0.20, 0.27]
uni	4x	15	4	0.08 (RI)	0.11 (RI)	0.00 (WE)	0.01 (ML)	0.01 (ML)	0.00 (MM)	0.09 (WE)	0.21 (ML)	0.15 (ML)	0.20 (LO,VI)	0.50 (RI)	0.30 (RI)	0.40 (RI)	0.53 (ML)	0.26 (ML)	[0.24, 0.28]	0.31 (ML)	[0.27, 0.34]
uni	4x	15	5	0.07 (ML)	0.19 (ML)	0.00 (MM)	0.01 (ML)	0.02 (MM)	0.01 (MM)	0.09 (WE)	0.50 (RI)	0.10 (RI)	0.41 (ML)	0.31 (ML)	0.24 (ML)	0.29 (ML)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.37 (ML)	[0.34, 0.40]
uni	4x	15	10	0.12 (LO)	0.17 (ML)	0.01 (ML)	0.03 (LO)	0.01 (ML)	0.02 (ML)	0.08 (WE)	0.20 (WE)	0.30 (LO)	0.60 (RI)	0.40 (LO)	0.80 (RI)	0.50 (LO)	0.63 (ML)	0.40 (WE)	[0.35, 0.45]	0.54 (LO)	[0.45, 0.61]
uni	4x	15	15	0.12 (LO)	0.17 (RI)	0.00 (LO)	0.06 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.10 (RI)	0.10 (LO)	0.60 (RI,LO)	0.40 (LO)	0.60 (WE)	0.50 (WE)	0.68 (ML)	0.40 (WE)	[0.35, 0.45]	0.58 (ML)	[0.55, 0.60]
uni	4x	15	20	0.14 (ML)	0.17 (LO)	0.01 (ML)	0.03 (LO)	0.00 (ML)	0.01 (MM)	0.08 (WE)	0.10 (LO)	0.20 (LO)	0.65 (ML)	0.40 (LO,VI)	0.52 (MM)	0.58 (ML)	0.72 (ML)	0.49 (WE)	[0.44, 0.53]	0.59 (ML)	[0.57, 0.61]
uni	4x	20	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (RI)	0.04 (VR)	0.02 (MM)	0.03 (RI)	0.20 (WE)	0.25 (VR)	0.22 (VR)	0.23 (VR)	0.20 (WE)	0.42 (PD)	0.65 (PD)	0.29 (VR)	[0.28, 0.31]	0.43 (VR)	[0.41, 0.46]
uni	4x	20	3	0.11 (ML)	0.13 (LO)	0.00 (RI)	0.02 (ML)	0.02 (MM)	0.01 (LO)	0.08 (WE)	0.40 (WE)	0.15 (ML)	0.40 (LO)	0.15 (MM)	0.11 (MM)	0.23 (ML)	0.53 (ML)	0.25 (WE)	[0.20, 0.29]	0.26 (ML)	[0.22, 0.29]
uni	4x	20	4	0.05 (RI)	0.11 (LO)	0.00 (RI)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.08 (WE)	0.15 (ML)	0.12 (ML)	0.22 (ML)	0.20 (RI,LO)	0.27 (MM)	0.31 (ML)	0.56 (ML)	0.26 (ML)	[0.24, 0.28]	0.34 (ML)	[0.30, 0.37]
uni	4x	20	5	0.08 (ML)	0.20 (ML)	0.01 (MM)	0.03 (ML)	0.02 (ML)	0.00 (MM)	0.09 (WE)	0.20 (RI,LI)	0.10 (MM,VI)	0.50 (LO)	0.20 (ML,LI)	0.30 (RI,LI)	0.31 (ML)	0.58 (ML)	0.31 (ML)	[0.29, 0.33]	0.41 (ML)	[0.37, 0.44]
uni	4x	20	10	0.12 (ML)	0.16 (LO)	0.00 (RI)	0.05 (ML)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.10 (RI)	0.20 (RI,LO)	0.63 (ML)	0.36 (ML)	0.70 (LO)	0.42 (ML)	0.66 (ML)	0.42 (WE)	[0.37, 0.46]	0.54 (ML)	[0.51, 0.56]
uni	4x	20	15	0.13 (ML)	0.09 (LO)	0.01 (RI)	0.05 (ML)	0.00 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM,VI)	0.20 (LO,VI)	0.65 (ML)	0.33 (ML)	0.53 (ML)	0.59 (ML)	0.71 (ML)	0.42 (WE)	[0.37, 0.46]	0.59 (ML)	[0.56, 0.61]
uni	4x	20	20	0.13 (ML)	0.18 (LO)	0.01 (ML)	0.06 (ML)	0.01 (ML)	0.01 (MM)	0.08 (WE)	0.07 (ML)	0.02 (ML)	0.71 (ML)	0.32 (ML)	0.63 (MM)	0.68 (ML)	0.75 (ML)	0.55 (WE)	[0.51, 0.59]	0.62 (ML)	[0.60, 0.64]
uni	4x	50	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (MM)	0.03 (PI)	0.27 (VR)	0.28 (VR)	0.26 (VR)	0.22 (VR)	0.27 (VR,FI)	0.47 (PD)	0.76 (PD)	0.46 (VR)	[0.45, 0.48]	0.66 (VR)	[0.64, 0.68]
uni	4x	50	3	0.11 (ML)	0.18 (ML)	0.00 (ML)	0.04 (ML)	0.03 (MM)	0.01 (MM)	0.09 (WE)	0.10 (LO)	0.12 (MM)	0.21 (ML)	0.10 (RI)	0.15 (MM,VI)	0.24 (ML)	0.58 (ML)	0.26 (WE)	[0.21, 0.30]	0.30 (ML)	[0.26, 0.33]
uni	4x	50	4	0.11 (ML)	0.05 (RI)	0.01 (MM)	0.02 (ML)	0.01 (WE)	0.00 (WE)	0.08 (WE)	0.20 (RI,LI)	0.30 (WE)	0.32 (ML)	0.20 (RI,LI)	0.40 (RI)	0.39 (ML)	0.63 (ML)	0.29 (WE)	[0.24, 0.34]	0.40 (ML)	[0.37, 0.43]
uni	4x	50	5	0.09 (RI)	0.21 (ML)	0.00 (MM)	0.05 (ML)	0.01 (ML)	0.02 (WE)	0.08 (WE)	0.01 (MM,VI)	0.08 (ML)	0.50 (RI)	0.20 (RI)	0.60 (RI,LO)	0.41 (ML)	0.67 (ML)	0.32 (WE)	[0.27, 0.37]	0.42 (WE)	[0.33, 0.51]
uni	4x	50	10	0.13 (LO)	0.15 (LO)	0.00 (ML)	0.06 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.01 (MM,VI)	0.05 (MM,VI)	0.70 (LO)	0.21 (ML)	0.56 (ML)	0.63 (ML)	0.76 (ML)	0.48 (WE)	[0.43, 0.52]	0.58 (ML)	[0.56, 0.61]
uni	4x	50	15	0.14 (ML)	0.15 (LO)	0.02 (ML)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.01 (ML)	0.10 (LO,VI)	0.73 (ML)	0.14 (ML)	0.58 (ML)	0.69 (ML)	0.81 (ML)	0.51 (WE)	[0.47, 0.55]	0.61 (ML)	[0.58, 0.63]
uni	4x	50	20	0.14 (ML)	0.20 (ML)	0.01 (ML)	0.06 (LO)	0.01 (ML)	0.00 (RI)	0.08 (WE)	0.02 (MM,VI)	0.00 (MM,VI)	0.83 (MM)	0.18 (ML)	0.75 (ML)	0.80 (LO)	0.83 (ML)	0.53 (WE)	[0.49, 0.57]	0.63 (ML)	[0.61, 0.65]
uni	4x	100	2	0.01 (VR)	0.01 (VR)	0.01 (MM)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.03 (PD)	0.36 (VR)	0.34 (VR)	0.29 (VR)	0.42 (VR)	0.45 (VR)	0.54 (PD)	0.84 (PD)	0.58 (VR)	[0.57, 0.59]	0.79 (VR)	[0.77, 0.80]
uni	4x	100	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.01 (RI)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.10 (WE)	0.12 (MM,VI)	0.20 (RI,LO)	0.20 (RI)	0.20 (RI)	0.25 (ML)	0.60 (ML)	0.29 (WE)	[0.24, 0.34]	0.31 (ML)	[0.28, 0.35]
uni	4x	100	4	0.11 (RI)	0.11 (LO)	0.00 (LO)	0.02 (ML)	0.00 (LO)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.20 (RI,VI)	0.27 (ML)	0.07 (ML)	0.30 (MM)	0.39 (ML)	0.67 (ML)	0.36 (WE)	[0.31, 0.41]	0.41 (ML)	[0.37, 0.44]
uni	4x	100	5	0.10 (LO)	0.20 (ML)	0.01 (MM)	0.05 (ML)	0.00 (ML)	0.00 (LO)	0.09 (WE)	0.02 (ML)	0.10 (ML)	0.39 (ML)	0.11 (ML)	0.40 (LO)	0.43 (ML)	0.71 (ML)	0.38 (WE)	[0.33, 0.43]	0.46 (LO)	[0.37, 0.55]
uni	4x	100	10	0.12 (RI)	0.16 (LO)	0.00 (ML)	0.06 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.00 (MM,VI)	0.10 (RI,LO)	0.73 (ML)	0.20 (RI,LO)	0.80 (LO)	0.72 (ML)	0.80 (ML)	0.51 (WE)	[0.47, 0.56]	0.58 (ML)	[0.56, 0.60]
uni	4x	100	15	0.14 (LO)	0.16 (LO)	0.00 (LO)	0.07 (LO)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.02 (ML)	0.20 (RI)	0.83 (MM)	0.40 (LO)	0.80 (RI,LO)	0.75 (ML)	0.83 (ML)	0.49 (WE)	[0.45, 0.53]	0.61 (ML)	[0.59, 0.63]
uni	4x	100	20	0.14 (LO)	0.20 (ML)	0.01 (ML)	0.04 (LO)	0.01 (LO)	0.00 (ML)	0.08 (WE)	0.00 (MM,VI)	0.00 (MM,VI)	0.91 (MM)	0.50 (LO)	0.90 (LO,VI)	0.91 (ML)	0.85 (ML)	0.58 (WE)	[0.54, 0.61]	0.64 (ML)	[0.62, 0.66]
uni	4x	500	2	0.00 (VR)	0.03 (PD)	0.75 (VR)	0.74 (VR)	0.73 (VR)	0.73 (VR)	0.76 (VR)	0.72 (VR)	0.90 (PD)	0.71 (VR)	[0.70, 0.71]	0.95 (VR)	[0.94, 0.95]					
uni	4x	500	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.06 (ML)	0.01 (MM)	0.00 (MM)	0.09 (WE)	0.00 (MM,VI)	0.14 (MM)	0.00 (MM,VI)	0.00 (MM,VI)	0.00 (MM,VI)	0.19 (ML)	0.61 (ML)	0.29 (WE)	[0.24, 0.34]	0.32 (MM)	[0.29, 0.35]
uni	4x	500	4	0.11 (RI)	0.12 (RI)	0.00 (WE)	0.02 (RI)	0.00 (WE)	0.00 (MM)	0.08 (WE)	0.10 (LO)	0.30 (WE)	0.20 (RI)	0.20 (RI)	0.50 (RI)	0.40 (RI)	0.67 (ML)	0.34 (WE)	[0.28, 0.38]	0.41 (MM)	[0.38, 0.44]
uni	4x	500	5	0.10 (LO)	0.21 (ML)	0.00 (MM)	0.06 (ML)	0.00 (ML)	0.00 (RI)	0.08 (WE)	0.00 (MM,VI)	0.06 (MM,VI)	0.23 (ML)	0.02 (ML)	0.20 (ML,VI)	0.40 (LO)	0.72 (ML)	0.39 (WE)	[0.34, 0.44]	0.45 (LO)	[0.35, 0.54]
uni	4x	500	10	0.13 (LO)	0.15 (LO)	0.01 (LO)	0.06 (LO)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.00 (MM,VI)	0.04 (MM,VI)	0.80 (ML)	0.04 (ML)	1.00 (LO)	0.80 (ML)	0.81 (ML)	0.52 (WE)	[0.48, 0.56]	0.59 (ML)	[0.56, 0.61]
uni	4x	500	15	0.14 (ML)	0.15 (LO)	0.01 (RI)	0.07 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.01 (ML)	0.10 (WE)	0.94 (ML)	0.10 (LO)	1.00 (LO)	0.90 (LO)	0.84 (ML)	0.51 (WE)	[0.47, 0.55]	0.61 (ML)	[0.59, 0.63]
uni	4x	500	20	0.14 (ML)	0.20 (LO)	0.01 (MM)	0.06 (LO)	0.01 (MM)	0.00 (RI)	0.08 (WE)	0.01 (ML)	0.00 (MM,VI)	1.00 (RI,LO)	0.05 (MM,VI)	1.00 (RI,LO)	0.93 (MM,VI)	0.85 (ML)	0.58 (WE)	[0.54, 0.61]	0.64 (ML)	[0.62, 0.66]

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
uni	4x	1000	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.03 (PD)	0.90 (VR)	0.90 (VR)	0.87 (VR)	0.89 (VR)	0.84 (VR)	0.87 (VR)	0.90 (PD)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]	
uni	4x	1000	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.06 (ML)	0.01 (MM)	0.01 (MM)	0.09 (WE)	0.00 (MM), 0.11 (MM)	0.10 (LO)	0.00 (MM), 0.10 (MM)	0.00 (MM), 0.19 (ML)	0.61 (ML)	0.29 (WE)	[0.24, 0.34]	0.33 (MM)	[0.30, 0.36]			
uni	4x	1000	4	0.11 (RI)	0.09 (RI)	0.01 (WE)	0.03 (ML)	0.01 (WE)	0.00 (MM)	0.08 (WE)	0.00 (MM), 0.10 (WE)	0.30 (RI)	0.10 (RI)	0.20 (LO)	0.30 (ML)	0.67 (ML)	0.35 (WE)	[0.30, 0.40]	0.42 (MM)	[0.39, 0.45]		
uni	4x	1000	5	0.10 (RI)	0.21 (ML)	0.00 (MM)	0.06 (ML)	0.00 (ML)	0.00 (RI)	0.08 (WE)	0.00 (MM), 0.10 (MM)	0.10 (RI), 0.00 (MM), 0.10 (LO)	0.30 (LO)	0.30 (ML)	0.72 (ML)	0.40 (WE)	[0.35, 0.45]	0.46 (LO)	[0.36, 0.55]			
uni	4x	1000	10	0.13 (LO)	0.16 (LO)	0.01 (LO)	0.07 (LO)	0.01 (ML)	0.01 (ML)	0.08 (WE)	0.00 (MM), 0.10 (WE)	0.88 (ML)	0.10 (LO)	1.00 (LO)	0.78 (ML)	0.81 (ML)	0.51 (WE)	[0.47, 0.56]	0.59 (ML)	[0.56, 0.61]		
uni	4x	1000	15	0.14 (ML)	0.15 (LO)	0.00 (LO)	0.07 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.00 (MM), 0.10 (WE)	0.97 (MM), 0.20 (LO)	1.00 (RI), 0.10 (LO)	0.84 (ML)	0.51 (WE)	[0.47, 0.55]	0.61 (ML)	[0.59, 0.63]				
uni	4x	1000	20	0.14 (ML)	0.20 (MM)	0.01 (MM)	0.05 (LO)	0.01 (LO)	0.00 (RI)	0.08 (WE)	0.01 (ML)	0.00 (MM), 0.10 (MM)	0.02 (MM), 0.10 (RI), 0.02 (MM), 0.10 (LO)	0.94 (MM), 0.85 (ML)	0.58 (WE)	[0.55, 0.61]	0.64 (ML)	[0.62, 0.66]				
uni	6x	5	2	0.01 (VR)	0.07 (VR)	0.01 (VR)	0.05 (VR)	0.01 (VR)	0.02 (VR)	0.01 (MM)	0.30 (WE)	0.14 (ML)	0.20 (LO)	0.20 (WE)	0.30 (RI)	0.51 (PD)	0.94 (PD)	0.11 (VR)	[0.10, 0.12]	0.16 (VR)	[0.14, 0.18]	
uni	6x	5	3	0.06 (RI)	0.10 (LO)	0.04 (WE)	0.06 (ML)	0.00 (MM)	0.02 (WE)	0.06 (MM)	0.32 (ML)	0.17 (ML)	0.30 (LO)	0.17 (MM)	0.17 (MM)	0.18 (ML)	0.45 (ML)	0.10 (WE)	[0.07, 0.14]	0.15 (ML)	[0.12, 0.18]	
uni	6x	5	4	0.07 (LO)	0.17 (ML)	0.01 (MM)	0.01 (ML)	0.06 (MM)	0.07 (MM)	0.08 (WE)	0.20 (LO), 0.10 (LO)	0.20 (RI), 0.10 (LO)	0.11 (ML)	0.30 (LO)	0.16 (ML)	0.46 (ML)	0.13 (WE)	[0.09, 0.17]	0.15 (ML)	[0.12, 0.18]		
uni	6x	5	5	0.11 (ML)	0.04 (RI)	0.02 (MM)	0.00 (ML)	0.02 (MM)	0.02 (MM)	0.06 (WE)	0.19 (MM)	0.28 (ML)	0.20 (LO), 0.10 (MM)	0.20 (LO), 0.23 (ML)	0.47 (ML)	0.11 (ML)	[0.09, 0.13]	0.19 (ML)	[0.16, 0.23]			
uni	6x	5	10	0.13 (LO)	0.20 (ML)	0.00 (MM)	0.05 (ML)	0.01 (MM)	0.02 (MM)	0.09 (WE)	0.26 (ML)	0.30 (LO)	0.10 (LO), 0.50 (RI)	0.40 (LO), 0.23 (MM)	0.30 (RI), 0.50 (ML)	0.21 (ML)	[0.19, 0.23]	0.32 (LO)	[0.22, 0.41]			
uni	6x	5	15	0.12 (LO)	0.18 (ML)	0.01 (MM)	0.04 (ML)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.20 (RI), 0.10 (LO)	0.30 (RI)	0.19 (MM)	0.21 (MM)	0.40 (WE)	0.40 (WE)	0.53 (ML)	0.29 (WE)	[0.23, 0.34]	0.32 (ML)	[0.29, 0.36]	
uni	6x	5	20	0.14 (ML)	0.20 (ML)	0.00 (MM)	0.05 (ML)	0.00 (LO)	0.00 (MM)	0.09 (WE)	0.20 (LO)	0.10 (RI)	0.35 (MM)	0.20 (RI)	0.40 (RI)	0.40 (RI), 0.55 (ML)	0.32 (WE)	[0.27, 0.37]	0.40 (ML)	[0.37, 0.44]		
uni	6x	10	2	0.04 (VR)	0.08 (VR)	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.01 (LO)	0.01 (PD)	0.20 (LO), 0.11 (ML)	0.20 (LO)	0.30 (LO), 0.19 (FA)	0.52 (PD)	0.95 (PD)	0.19 (VR)	[0.17, 0.20]	0.28 (VR)	[0.25, 0.30]			
uni	6x	10	3	0.02 (RI)	0.15 (ML)	0.00 (MM)	0.00 (LO)	0.01 (MM)	0.00 (MM)	0.09 (MM)	0.24 (ML)	0.20 (RI)	0.20 (LO)	0.20 (WE)	0.20 (LO)	0.21 (ML)	0.46 (ML)	0.15 (ML)	[0.13, 0.16]	0.18 (ML)	[0.15, 0.21]	
uni	6x	10	4	0.14 (RI)	0.18 (ML)	0.01 (ML)	0.02 (ML)	0.05 (ML)	0.06 (MM)	0.08 (WE)	0.22 (ML)	0.19 (ML)	0.16 (MM)	0.20 (RI)	0.20 (LO)	0.48 (ML)	0.19 (ML)	[0.17, 0.21]	0.24 (ML)	[0.21, 0.28]		
uni	6x	10	5	0.11 (ML)	0.05 (RI)	0.01 (MM)	0.04 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.40 (RI)	0.22 (ML)	0.20 (MM)	0.30 (RI)	0.20 (RI), 0.24 (ML)	0.49 (ML)	0.18 (ML)	[0.16, 0.20]	0.27 (ML)	[0.24, 0.30]		
uni	6x	10	10	0.14 (ML)	0.20 (ML)	0.01 (MM)	0.07 (ML)	0.01 (MM)	0.00 (WE)	0.08 (WE)	0.22 (ML)	0.20 (RI), 0.30 (RI)	0.40 (RI), 0.50 (LO)	0.40 (LO)	0.55 (ML)	0.26 (WE)	[0.21, 0.31]	0.37 (ML)	[0.33, 0.40]			
uni	6x	10	15	0.15 (LO)	0.19 (RI)	0.00 (MM)	0.06 (ML)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.12 (MM)	0.20 (RI)	0.50 (RI), 0.17 (MM), 0.37 (ML)	0.36 (ML)	0.59 (ML)	0.34 (WE)	[0.29, 0.39]	0.40 (ML)	[0.36, 0.43]			
uni	6x	10	20	0.14 (LO)	0.21 (ML)	0.00 (MM)	0.07 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.11 (MM), 0.10 (LO)	0.40 (RI)	0.30 (WE)	0.40 (RI)	0.50 (RI)	0.61 (ML)	0.42 (WE)	[0.37, 0.47]	0.45 (ML)	[0.42, 0.48]		
uni	6x	15	2	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.05 (MM)	0.01 (PD)	0.14 (VR)	0.14 (ML)	0.17 (VR)	0.18 (VR)	0.19 (FA)	0.51 (PD)	0.95 (PD)	0.25 (VR)	[0.24, 0.26]	0.34 (VR)	[0.32, 0.37]	
uni	6x	15	3	0.02 (RI)	0.00 (LO)	0.00 (LO)	0.01 (ML)	0.01 (WE)	0.01 (WE)	0.09 (WE)	0.20 (LO)	0.30 (LO)	0.13 (MM)	0.20 (RI), 0.30 (LO)	0.24 (ML)	0.46 (ML)	0.17 (ML)	[0.15, 0.19]	0.20 (ML)	[0.16, 0.23]		
uni	6x	15	4	0.03 (RI)	0.20 (ML)	0.01 (ML)	0.05 (ML)	0.02 (MM)	0.03 (MM)	0.08 (WE)	0.40 (WE)	0.19 (ML)	0.16 (MM)	0.20 (LO)	0.20 (ML), 0.20 (RI)	0.49 (ML)	0.20 (ML)	[0.18, 0.22]	0.27 (ML)	[0.23, 0.30]		
uni	6x	15	5	0.11 (ML)	0.10 (LO)	0.00 (MM)	0.06 (ML)	0.00 (RI)	0.00 (MM)	0.06 (WE)	0.26 (ML)	0.30 (RI)	0.19 (MM)	0.12 (MM), 0.19 (MM)	0.30 (LO), 0.51 (ML)	0.20 (ML)	[0.18, 0.23]	0.31 (ML)	[0.28, 0.34]			
uni	6x	15	10	0.14 (RI)	0.21 (ML)	0.01 (MM)	0.07 (ML)	0.00 (LO)	0.00 (MM)	0.08 (WE)	0.20 (LO), 0.11 (MM), 0.60 (LO)	0.20 (RI), 0.40 (LO)	0.40 (WE)	0.57 (ML)	0.27 (ML)	[0.25, 0.29]	0.40 (LO)	[0.31, 0.49]				
uni	6x	15	15	0.17 (ML)	0.20 (ML)	0.00 (ML)	0.07 (ML)	0.01 (MM)	0.00 (MM)	0.09 (WE)	0.30 (LO)	0.10 (RI), 0.50 (LO), 0.20 (RI)	0.60 (LO)	0.46 (ML)	0.61 (ML)	0.34 (WE)	[0.29, 0.39]	0.42 (ML)	[0.39, 0.45]			
uni	6x	15	20	0.14 (LO)	0.22 (ML)	0.01 (MM)	0.06 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.10 (RI), 0.04 (ML)	0.43 (MM)	0.17 (MM), 0.50 (RI)	0.45 (ML)	0.66 (ML)	0.41 (WE)	[0.36, 0.45]	0.46 (RI)	[0.38, 0.54]			
uni	6x	20	2	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.00 (LO)	0.02 (VR)	0.00 (LO)	0.01 (PD)	0.20 (LO), 0.15 (VR)	0.30 (LO)	0.21 (VR)	0.24 (FA)	0.49 (PD)	0.93 (PD)	0.29 (VR)	[0.27, 0.30]	0.44 (VR)	[0.42, 0.46]		
uni	6x	20	3	0.11 (ML)	0.11 (WE)	0.02 (RI)	0.02 (ML)	0.00 (WE)	0.00 (LO)	0.09 (MM)	0.26 (ML)	0.15 (ML)	0.30 (RI)	0.30 (LO), 0.11 (ML)	0.30 (WE)	0.47 (ML)	0.18 (ML)	[0.16, 0.20]	0.22 (ML)	[0.18, 0.25]		
uni	6x	20	4	0.15 (RI)	0.21 (ML)	0.01 (ML)	0.05 (ML)	0.01 (RI)	0.00 (MM)	0.07 (WE)	0.30 (WE)	0.17 (ML)	0.40 (WE)	0.20 (MM), 0.30 (RI), 0.23 (ML)	0.51 (ML)	0.22 (ML)	[0.20, 0.24]	0.28 (ML)	[0.24, 0.31]			
uni	6x	20	5	0.11 (RI)	0.16 (LO)	0.01 (ML)	0.06 (ML)	0.00 (LO)	0.00 (MM)	0.07 (WE)	0.26 (ML)	0.30 (RI)	0.30 (WE)	0.20 (LO), 0.30 (RI)	0.29 (ML)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.32 (ML)	[0.29, 0.35]		
uni	6x	20	10	0.15 (ML)	0.22 (ML)	0.00 (MM)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.30 (RI)	0.11 (ML)	0.30 (RI), 0.14 (ML)	0.30 (RI), 0.27 (ML)	0.59 (ML)	0.29 (WE)	[0.24, 0.34]	0.40 (ML)	[0.37, 0.43]			
uni	6x	20	15	0.16 (ML)	0.17 (RI)	0.00 (ML)	0.06 (ML)	0.01 (MM)	0.01 (LO)	0.09 (WE)	0.30 (RI), 0.30 (RI), 0.40 (LO)	0.14 (ML)	0.30 (WE)	0.43 (ML)	0.64 (ML)	0.37 (WE)	[0.32, 0.42]	0.41 (ML)	[0.38, 0.44]			
uni	6x	20	20	0.15 (LO)	0.22 (ML)	0.00 (MM)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.10 (LO), 0.10 (RI)	0.60 (RI)	0.22 (ML)	0.43 (ML)	0.50 (RI), 0.68 (ML)	0.40 (WE)	[0.36, 0.45]	0.45 (ML)	[0.42, 0.48]			

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
uni	6x	50	2	0.00 (VR)	0.03 (VR)	0.01 (VR)	0.00 (ML)	0.00 (LO)	0.01 (VR)	0.01 (PD)	0.20 (LO,WF0.26 (VR)	0.30 (LO,WF0.22 (VR)	0.24 (VR)	0.47 (PD)	0.95 (PD)	0.45 (VR)	[0.44,0.46]	0.65 (VR)	[0.63,0.67]			
uni	6x	50	3	0.12 (LO)	0.08 (RI)	0.02 (MM)	0.03 (ML)	0.01 (MM)	0.01 (LO)	0.09 (MM)	0.17 (ML)	0.30 (RI)	0.17 (ML)	0.20 (RI)	0.30 (LO)	0.21 (ML)	0.47 (ML)	0.22 (ML)	[0.20,0.24]	0.27 (ML)	[0.24,0.31]	
uni	6x	50	4	0.16 (LO)	0.21 (ML)	0.00 (ML)	0.06 (ML)	0.01 (LO)	0.02 (MM)	0.08 (WE)	0.22 (ML)	0.11 (ML)	0.30 (LO,WF0.21 (MM)	0.18 (ML)	0.40 (WE)	0.52 (ML)	0.26 (ML)	[0.24,0.28]	0.32 (ML)	[0.29,0.36]		
uni	6x	50	5	0.12 (ML)	0.14 (LO)	0.01 (ML)	0.06 (ML)	0.00 (RI)	0.00 (MM)	0.07 (WE)	0.27 (ML)	0.20 (WE)	0.30 (LO)	0.22 (MM)	0.40 (WE)	0.40 (LO)	0.52 (ML)	0.25 (ML)	[0.23,0.27]	0.35 (ML)	[0.32,0.39]	
uni	6x	50	10	0.13 (LO)	0.22 (ML)	0.00 (ML)	0.08 (ML)	0.00 (WE)	0.01 (MM)	0.08 (WE)	0.40 (RI)	0.12 (MM)	0.20 (RI,LF0.20 (LO,WF0.20 (LO)	0.36 (ML)	0.60 (ML)	0.29 (WE)	[0.24,0.34]	0.40 (ML)	[0.37,0.43]			
uni	6x	50	15	0.17 (ML)	0.19 (LO)	0.01 (ML)	0.08 (ML)	0.01 (LO)	0.00 (MM)	0.09 (WE)	0.15 (MM)	0.11 (MM)	0.40 (RI,LF0.20 (RI,LF0.40 (RI)	0.51 (ML)	0.67 (ML)	0.38 (WE)	[0.34,0.43]	0.41 (ML)	[0.38,0.44]			
uni	6x	50	20	0.16 (LO)	0.23 (ML)	0.00 (MM)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML,RF0.05 (MM)	0.70 (LO)	0.20 (LO)	0.60 (RI,LF0.54 (ML)	0.72 (ML)	0.42 (WE)	[0.37,0.46]	0.48 (LO)	[0.39,0.55]			
uni	6x	100	2	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (PD)	0.28 (VR)	0.32 (VR)	0.41 (VR)	0.49 (VR)	0.60 (WE)	0.48 (PD)	0.94 (PD)	0.57 (VR)	[0.56,0.59]	0.77 (VR)	[0.75,0.78]	
uni	6x	100	3	0.01 (RI)	0.03 (RI)	0.03 (LO)	0.02 (ML)	0.00 (MM)	0.02 (MM)	0.10 (MM)	0.30 (LO)	0.40 (LO,WF0.18 (MM)	0.20 (WE)	0.20 (RI)	0.19 (ML)	0.46 (ML)	0.23 (ML)	[0.21,0.25]	0.28 (ML)	[0.25,0.32]		
uni	6x	100	4	0.13 (LO)	0.23 (ML)	0.01 (ML)	0.06 (ML)	0.02 (ML)	0.02 (MM)	0.08 (WE)	0.24 (ML)	0.20 (RI,LF0.30 (LO,WF0.20 (MM,WF0.16 (ML)	0.36 (ML)	0.54 (ML)	0.26 (ML)	[0.24,0.28]	0.34 (ML)	[0.31,0.38]				
uni	6x	100	5	0.13 (ML)	0.09 (LO)	0.00 (MM)	0.08 (ML)	0.00 (WE)	0.00 (MM)	0.07 (WE)	0.29 (ML)	0.40 (RI)	0.20 (LO,WF0.27 (ML)	0.30 (WE)	0.40 (LO)	0.53 (ML)	0.25 (ML)	[0.23,0.27]	0.36 (ML)	[0.32,0.39]		
uni	6x	100	10	0.16 (ML)	0.22 (ML)	0.00 (ML)	0.09 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.31 (ML)	0.07 (MM)	0.12 (ML)	0.30 (RI)	0.13 (ML)	0.22 (ML)	0.59 (ML)	0.32 (WE)	[0.27,0.37]	0.40 (ML)	[0.37,0.43]	
uni	6x	100	15	0.17 (ML)	0.18 (RI)	0.00 (ML)	0.08 (ML)	0.00 (LO)	0.00 (MM)	0.09 (WE)	0.17 (MM,WF0.06 (ML)	0.42 (ML)	0.20 (LO,WF0.50 (LO)	0.46 (ML)	0.68 (ML)	0.41 (WE)	[0.37,0.46]	0.41 (ML)	[0.38,0.44]			
uni	6x	100	20	0.15 (LO)	0.23 (ML)	0.00 (ML)	0.08 (ML)	0.01 (MM)	0.00 (ML)	0.08 (WE)	0.12 (MM,WF0.04 (MM,WF0.60 (LO)	0.10 (LO,WF0.60 (LO)	0.80 (LO)	0.73 (ML)	0.43 (WE)	[0.38,0.47]	0.52 (LO)	[0.43,0.59]				
uni	6x	500	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.01 (PD)	0.68 (VR)	0.67 (VR)	0.82 (VR)	0.73 (VR)	0.72 (VR)	0.75 (VR)	0.92 (PD)	0.70 (VR)	[0.69,0.71]	0.94 (VR)	[0.94,0.95]	
uni	6x	500	3	0.07 (RI)	0.08 (LO)	0.02 (LO)	0.03 (ML)	0.01 (MM)	0.02 (MM)	0.09 (MM)	0.50 (WE)	0.10 (RI,WF0.28 (ML)	0.13 (ML)	0.10 (MM,WF0.21 (ML)	0.46 (ML)	0.24 (ML)	[0.22,0.26]	0.30 (ML)	[0.26,0.33]			
uni	6x	500	4	0.14 (RI)	0.23 (ML)	0.01 (ML)	0.06 (ML)	0.01 (ML)	0.02 (MM)	0.08 (WE)	0.19 (MM,WF0.10 (RI,LF0.50 (LO)	0.37 (MM)	0.30 (ML,RF0.46 (ML)	0.60 (ML)	0.27 (ML)	[0.25,0.29]	0.36 (ML)	[0.32,0.39]				
uni	6x	500	5	0.13 (ML)	0.09 (LO)	0.00 (ML)	0.08 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.24 (ML)	0.20 (RI,LF0.40 (WE)	0.30 (MM)	0.40 (RI,LF0.50 (WE)	0.55 (ML)	0.26 (ML)	[0.24,0.28]	0.37 (ML)	[0.33,0.40]			
uni	6x	500	10	0.15 (LO)	0.23 (ML)	0.00 (ML)	0.09 (ML)	0.01 (LO)	0.00 (MM)	0.08 (WE)	0.30 (MM)	0.03 (MM)	0.10 (LO)	0.20 (RI,LF0.10 (LO)	0.16 (ML)	0.59 (ML)	0.32 (WE)	[0.26,0.37]	0.41 (LO)	[0.31,0.49]		
uni	6x	500	15	0.17 (LO)	0.19 (RI)	0.01 (ML)	0.08 (ML)	0.01 (LO)	0.00 (MM)	0.09 (WE)	0.18 (MM)	0.06 (MM)	0.50 (LO)	0.20 (RI,LF0.27 (ML)	0.38 (ML)	0.68 (ML)	0.41 (WE)	[0.37,0.46]	0.42 (MM)	[0.39,0.44]		
uni	6x	500	20	0.16 (LO)	0.23 (MM)	0.00 (ML)	0.08 (ML)	0.00 (RI)	0.00 (ML)	0.08 (WE)	0.12 (MM,WF0.03 (MM)	0.70 (LO)	0.10 (LO,WF0.54 (ML)	0.70 (LO)	0.73 (ML)	0.43 (WE)	[0.38,0.47]	0.51 (LO)	[0.43,0.58]			
uni	6x	1000	2	0.00 (VR)	0.01 (PD)	0.87 (VR)	0.79 (VR)	0.90 (LO,WF0.89 (VR)	0.86 (VR)	0.88 (VR)	0.91 (PD)	0.73 (VR)	[0.72,0.74]	0.97 (VR)	[0.97,0.97]							
uni	6x	1000	3	0.08 (RI)	0.07 (LO)	0.01 (LO)	0.03 (ML)	0.00 (MM)	0.01 (RI)	0.10 (MM)	0.50 (WE)	0.11 (MM)	0.25 (ML)	0.11 (MM)	0.10 (ML)	0.19 (ML)	0.46 (ML)	0.23 (ML)	[0.21,0.25]	0.30 (ML)	[0.26,0.33]	
uni	6x	1000	4	0.14 (RI)	0.22 (ML)	0.02 (ML)	0.06 (ML)	0.01 (ML)	0.02 (MM)	0.08 (WE)	0.30 (WE)	0.20 (LO,WF0.50 (RI,LF0.34 (MM)	0.36 (ML)	0.49 (ML)	0.61 (ML)	0.27 (ML)	[0.25,0.29]	0.36 (ML)	[0.33,0.40]			
uni	6x	1000	5	0.13 (ML)	0.11 (LO)	0.00 (ML)	0.08 (ML)	0.01 (MM)	0.00 (MM)	0.07 (WE)	0.27 (ML)	0.30 (WE)	0.40 (WE)	0.34 (MM)	0.40 (LO,WF0.50 (WE)	0.55 (ML)	0.26 (ML)	[0.24,0.28]	0.37 (ML)	[0.34,0.41]		
uni	6x	1000	10	0.15 (LO)	0.22 (ML)	0.00 (ML)	0.09 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.30 (RI)	0.03 (MM,WF0.10 (LO)	0.20 (RI,LF0.00 (MM,WF0.14 (ML)	0.59 (ML)	0.32 (WE)	[0.27,0.37]	0.40 (ML)	[0.37,0.43]				
uni	6x	1000	15	0.17 (LO)	0.19 (RI)	0.01 (ML)	0.08 (ML)	0.00 (LO)	0.00 (WE)	0.09 (WE)	0.20 (RI,LF0.04 (MM)	0.25 (ML)	0.20 (RI,LF0.30 (LO)	0.40 (LO)	0.68 (ML)	0.40 (WE)	[0.36,0.44]	0.42 (MM)	[0.39,0.44]			
uni	6x	1000	20	0.16 (LO)	0.23 (MM)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (ML)	0.08 (WE)	0.12 (MM,WF0.03 (MM,WF0.80 (LO)	0.10 (WE)	0.60 (LO)	0.90 (LO)	0.73 (ML)	0.44 (WE)	[0.39,0.48]	0.51 (LO)	[0.43,0.58]			
uni	8x	5	2	0.04 (VR)	0.03 (WE)	0.00 (ML)	0.04 (VR)	0.02 (LO)	0.06 (FA)	0.00 (WE)	0.14 (VR)	0.20 (RI)	0.15 (VR)	0.10 (RI,LF0.20 (RI,WF0.30 (LO)	0.99 (PD)	0.10 (VR)	[0.09,0.11]	0.15 (VR)	[0.13,0.16]			
uni	8x	5	3	0.00 (ML)	0.26 (ML)	0.04 (ML)	0.00 (LO)	0.06 (ML)	0.07 (MM)	0.04 (MM)	0.20 (WE)	0.10 (LO,WF0.20 (RI)	0.20 (LO)	0.30 (ML)	0.20 (ML)	0.46 (ML)	0.04 (ML)	[0.00,0.08]	0.08 (LO)	[0.00,0.16]		
uni	8x	5	4	0.17 (ML)	0.16 (ML)	0.01 (ML)	0.08 (ML)	0.01 (MM)	0.02 (ML)	0.06 (WE)	0.20 (RI)	0.20 (WE)	0.10 (ML,LF0.14 (MM)	0.30 (LO)	0.14 (MM)	0.43 (ML)	0.04 (RI)	[0.01,0.08]	0.18 (LO)	[0.10,0.27]		
uni	8x	5	5	0.22 (ML)	0.20 (ML)	0.08 (ML)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.08 (WE)	0.30 (ML)	0.20 (RI)	0.16 (MM)	0.20 (ML,LF0.20 (ML)	0.30 (ML)	0.09 (ML)	[0.03,0.14]	0.13 (LO)	[0.04,0.21]			
uni	8x	5	10	0.29 (ML)	0.28 (ML)	0.11 (MM)	0.16 (MM)	0.00 (ML)	0.01 (RI)	0.08 (WE)	0.20 (ML,LF0.10 (ML)	0.20 (WE)	0.14 (MM)	0.40 (ML)	0.40 (ML)	0.50 (ML)	0.13 (ML)	[0.06,0.19]	0.13 (MM)	[0.10,0.16]		
uni	8x	5	15	0.30 (MM)	0.29 (MM)	0.12 (MM)	0.06 (ML)	0.02 (ML)	0.02 (MM)	0.06 (WE)	0.01 (MM)	0.10 (RI,WF0.21 (MM)	0.30 (ML,WF0.20 (WE)	0.40 (ML,LF0.53 (ML)	0.14 (MM)	[0.12,0.16]	0.25 (LO)	[0.15,0.34]				
uni	8x	5	20	0.21 (ML)	0.28 (MM)	0.14 (ML)	0.13 (ML)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.20 (RI)	0.10 (ML,LF0.14 (MM)	0.20 (ML)	0.23 (MM)	0.40 (ML)	0.54 (ML)	0.19 (MM)	[0.17,0.21]	0.25 (ML)	[0.13,0.36]		

Population			RMSE						IC						CCC							
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
uni	8x	10	2	0.06 (VR)	0.02 (VR)	0.01 (VR)	0.02 (ML)	0.01 (VR)	0.00 (LO)	0.01 (PD)	0.20 (ML)	0.20 (WE)	0.20 (WE,WF0.15)	0.15 (VR)	0.12 (VR)	0.40 (WE)	0.99 (PD)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.28]	
uni	8x	10	3	0.02 (ML)	0.22 (ML)	0.03 (RI)	0.02 (ML)	0.05 (LO)	0.02 (WE)	0.03 (WE)	0.20 (ML,WF0.40)	0.20 (LO,WF0.10)	0.20 (LO,WF0.40)	0.10 (LO)	0.30 (ML)	0.20 (RI)	0.48 (ML)	0.05 (WE)	[0.01, 0.09]	0.11 (ML)	[0.03, 0.19]	
uni	8x	10	4	0.13 (ML)	0.21 (ML)	0.10 (MM)	0.02 (ML)	0.06 (MM)	0.00 (ML)	0.09 (WE)	0.11 (MM)	0.10 (MM,RI0.17)	0.17 (MM)	0.20 (LO,WF0.40)	0.20 (LO)	0.20 (RI)	0.46 (ML)	0.09 (ML)	[0.04, 0.14]	0.09 (LO)	[−0.01, 0.18]	
uni	8x	10	5	0.23 (ML)	0.28 (ML)	0.11 (MM)	0.00 (ML)	0.01 (ML)	0.04 (ML)	0.09 (RI)	0.30 (RI)	0.20 (ML)	0.13 (MM)	0.20 (ML)	0.30 (RI)	0.30 (RI)	0.50 (ML)	0.13 (ML)	[0.07, 0.20]	0.11 (ML)	[0.00, 0.22]	
uni	8x	10	10	0.31 (MM)	0.29 (MM)	0.12 (MM)	0.11 (ML)	0.04 (ML)	0.01 (MM)	0.06 (WE)	0.04 (MM)	0.10 (RI,WF0.20)	0.20 (ML)	0.30 (WE)	0.30 (RI,LF0.14)	0.14 (MM)	0.51 (ML)	0.12 (MM)	[0.11, 0.14]	0.19 (ML)	[0.07, 0.30]	
uni	8x	10	15	0.29 (MM)	0.32 (MM)	0.11 (MM)	0.12 (ML)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.20 (RI)	0.17 (MM)	0.50 (ML)	0.30 (ML,RI0.55)	0.55 (ML)	0.15 (MM)	[0.14, 0.17]	0.28 (ML)	[0.17, 0.38]	
uni	8x	10	20	0.31 (ML)	0.28 (ML)	0.13 (MM)	0.14 (MM)	0.04 (MM)	0.00 (ML)	0.08 (WE)	0.10 (ML,RI0.10)	0.10 (ML)	0.30 (ML)	0.16 (MM)	0.30 (RI)	0.50 (LO)	0.58 (ML)	0.19 (MM)	[0.18, 0.21]	0.35 (ML)	[0.24, 0.44]	
uni	8x	15	2	0.01 (VR)	0.04 (VR)	0.02 (ML)	0.01 (VR)	0.02 (LO)	0.02 (LO)	0.01 (PD)	0.15 (VR)	0.20 (WE)	0.14 (VR)	0.18 (VR)	0.21 (VR)	0.30 (PD)	0.99 (PD)	0.24 (VR)	[0.23, 0.26]	0.36 (VR)	[0.33, 0.38]	
uni	8x	15	3	0.02 (ML)	0.24 (ML)	0.00 (ML)	0.03 (ML)	0.00 (WE)	0.04 (MM)	0.07 (WE)	0.30 (LO)	0.20 (RI)	0.11 (MM)	0.20 (WE)	0.20 (LO)	0.15 (MM)	0.47 (ML)	0.05 (ML)	[0.00, 0.10]	0.15 (ML)	[0.07, 0.22]	
uni	8x	15	4	0.18 (ML)	0.16 (ML)	0.04 (ML)	0.06 (ML)	0.03 (MM)	0.03 (ML)	0.08 (WE)	0.12 (MM)	0.20 (LO)	0.10 (MM,WF0.20)	0.20 (RI,LF0.20)	0.20 (ML)	0.20 (ML)	0.47 (ML)	0.10 (ML)	[0.04, 0.16]	0.10 (RI)	[0.01, 0.18]	
uni	8x	15	5	0.23 (ML)	0.31 (ML)	0.11 (MM)	0.03 (ML)	0.04 (ML)	0.01 (LO)	0.09 (WE)	0.10 (MM,WF0.10)	0.10 (ML)	0.30 (LO)	0.40 (LO)	0.10 (RI,LF0.20)	0.20 (WE)	0.49 (ML)	0.11 (ML)	[0.05, 0.17]	0.18 (ML)	[0.06, 0.29]	
uni	8x	15	10	0.30 (MM)	0.30 (MM)	0.11 (ML)	0.13 (ML)	0.01 (ML)	0.01 (ML)	0.07 (WE)	0.10 (WE)	0.10 (ML,WF0.23)	0.23 (MM)	0.30 (RI,LF0.40)	0.40 (LO)	0.50 (WE)	0.54 (ML)	0.14 (MM)	[0.12, 0.16]	0.17 (MM)	[0.14, 0.21]	
uni	8x	15	15	0.29 (MM)	0.32 (MM)	0.13 (MM)	0.13 (ML)	0.03 (ML)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.01 (MM)	0.21 (MM)	0.26 (MM)	0.40 (RI)	0.24 (MM)	0.58 (ML)	0.17 (MM)	[0.15, 0.19]	0.25 (MM)	[0.22, 0.29]	
uni	8x	15	20	0.30 (ML)	0.31 (ML)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.00 (ML)	0.06 (WE)	0.10 (ML)	0.01 (MM)	0.20 (MM)	0.17 (MM)	0.27 (MM)	0.22 (MM)	0.60 (ML)	0.21 (MM)	[0.19, 0.23]	0.29 (MM)	[0.26, 0.32]	
uni	8x	20	2	0.01 (VR)	0.03 (VR)	0.00 (ML)	0.02 (ML)	0.03 (VR)	0.01 (VR)	0.01 (PD)	0.40 (ML)	0.21 (VR)	0.30 (RI)	0.24 (VR)	0.26 (FA)	0.32 (PD)	0.98 (PD)	0.28 (VR)	[0.27, 0.29]	0.41 (VR)	[0.39, 0.44]	
uni	8x	20	3	0.12 (ML)	0.23 (ML)	0.03 (LO)	0.00 (ML)	0.04 (LO)	0.02 (RI)	0.08 (MM)	0.30 (RI)	0.40 (ML)	0.30 (RI)	0.20 (LO)	0.30 (LO,WF0.40)	0.40 (LO)	0.47 (ML)	0.07 (ML)	[0.02, 0.12]	0.07 (MM)	[0.04, 0.10]	
uni	8x	20	4	0.18 (ML)	0.15 (ML)	0.00 (ML)	0.08 (ML)	0.02 (MM)	0.03 (MM)	0.09 (RI)	0.20 (ML)	0.20 (ML)	0.20 (ML)	0.10 (MM,WF0.20)	0.20 (LO)	0.30 (LO)	0.50 (ML)	0.07 (ML)	[0.01, 0.13]	0.18 (LO)	[0.08, 0.28]	
uni	8x	20	5	0.28 (MM)	0.32 (ML)	0.09 (ML)	0.08 (ML)	0.01 (ML)	0.00 (LO)	0.07 (WE)	0.20 (ML)	0.10 (ML,WF0.20)	0.20 (ML,WF0.30)	0.40 (LO)	0.20 (LO)	0.51 (ML)	0.15 (ML)	[0.09, 0.22]	0.14 (MM)	[0.11, 0.17]		
uni	8x	20	10	0.30 (MM)	0.31 (MM)	0.12 (MM)	0.13 (MM)	0.01 (ML)	0.01 (MM)	0.08 (WE)	0.08 (MM)	0.10 (ML,WF0.27)	0.27 (MM)	0.20 (LO,WF0.50)	0.50 (LO)	0.40 (RI,LF0.52)	0.52 (ML)	0.15 (MM)	[0.13, 0.17]	0.17 (MM)	[0.14, 0.21]	
uni	8x	20	15	0.27 (MM)	0.31 (MM)	0.12 (MM)	0.10 (ML)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM)	0.04 (MM)	0.23 (MM)	0.30 (ML)	0.30 (ML)	0.30 (LO)	0.58 (ML)	0.18 (MM)	[0.16, 0.20]	0.30 (ML)	[0.20, 0.40]	
uni	8x	20	20	0.31 (MM)	0.30 (MM)	0.14 (ML)	0.13 (MM)	0.02 (MM)	0.00 (ML)	0.07 (WE)	0.10 (ML,WF0.03)	0.03 (MM)	0.30 (RI)	0.18 (MM)	0.20 (MM,WF0.50)	0.50 (RI,LF0.61)	0.61 (ML)	0.22 (MM)	[0.20, 0.24]	0.31 (MM)	[0.28, 0.35]	
uni	8x	50	2	0.00 (ML)	0.00 (VR)	0.01 (ML)	0.01 (VR)	0.02 (VR)	0.01 (LO)	0.01 (PD)	0.26 (VR)	0.27 (VR)	0.29 (VR)	0.23 (VR)	0.25 (VR)	0.33 (FA)	0.99 (PD)	0.45 (VR)	[0.43, 0.46]	0.62 (VR)	[0.60, 0.64]	
uni	8x	50	3	0.03 (ML)	0.13 (ML)	0.05 (ML)	0.00 (ML)	0.06 (WE)	0.02 (WE)	0.07 (WE)	0.10 (ML,LF0.30)	0.30 (ML)	0.20 (WE)	0.20 (ML)	0.50 (WE)	0.40 (LO)	0.48 (ML)	0.05 (WE)	[0.01, 0.10]	0.17 (ML)	[0.07, 0.25]	
uni	8x	50	4	0.24 (ML)	0.14 (ML)	0.09 (ML)	0.01 (ML)	0.03 (MM)	0.02 (ML)	0.08 (WE)	0.30 (ML)	0.20 (ML)	0.20 (RI,WF0.15)	0.15 (MM)	0.20 (RI,WF0.20)	0.20 (ML,LF0.47)	0.47 (ML)	0.11 (ML)	[0.04, 0.17]	0.15 (WE)	[0.05, 0.25]	
uni	8x	50	5	0.24 (ML)	0.28 (ML)	0.12 (MM)	0.06 (ML)	0.01 (ML)	0.01 (RI)	0.07 (WE)	0.20 (ML,WF0.10)	0.10 (ML,WF0.20)	0.20 (ML,WF0.20)	0.10 (ML,WF0.20)	0.20 (RI,LF0.20)	0.10 (RI,LF0.20)	0.20 (WE)	0.51 (ML)	0.15 (ML)	[0.08, 0.21]	0.16 (MM)	[0.13, 0.19]
uni	8x	50	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.02 (MM)	0.19 (MM)	0.30 (LO)	0.40 (ML)	0.40 (RI,LF0.56)	0.56 (ML)	0.15 (MM)	[0.13, 0.17]	0.20 (MM)	[0.17, 0.24]	
uni	8x	50	15	0.28 (MM)	0.31 (MM)	0.13 (MM)	0.13 (MM)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.02 (MM)	0.23 (MM)	0.26 (MM)	0.50 (ML)	0.30 (RI,LF0.58)	0.58 (ML)	0.19 (MM)	[0.18, 0.21]	0.27 (MM)	[0.24, 0.30]	
uni	8x	50	20	0.30 (ML)	0.30 (MM)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.01 (ML)	0.07 (WE)	0.01 (MM)	0.03 (MM)	0.30 (RI)	0.23 (MM)	0.20 (ML,WF0.20)	0.20 (RI,LF0.59)	0.59 (ML)	0.23 (MM)	[0.21, 0.25]	0.32 (MM)	[0.29, 0.35]	
uni	8x	100	2	0.01 (VR)	0.02 (VR)	0.01 (ML)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (PD)	0.35 (VR)	0.35 (VR)	0.39 (VR)	0.42 (VR)	0.38 (VR)	0.35 (PD,FA)	1.00 (PD)	0.56 (VR)	[0.55, 0.57]	0.78 (VR)	[0.77, 0.80]	
uni	8x	100	3	0.09 (ML)	0.19 (ML)	0.04 (RI)	0.01 (ML)	0.04 (RI)	0.00 (LO)	0.08 (WE)	0.10 (MM,WF0.20)	0.20 (ML)	0.20 (ML,WF0.30)	0.24 (MM)	0.30 (RI)	0.49 (ML)	0.10 (ML)	[0.05, 0.15]	0.16 (LO)	[0.07, 0.25]		
uni	8x	100	4	0.25 (ML)	0.16 (ML)	0.08 (ML)	0.11 (ML)	0.02 (MM)	0.02 (ML)	0.07 (WE)	0.20 (RI)	0.06 (MM)	0.20 (WE)	0.10 (ML,WF0.30)	0.30 (LO)	0.30 (ML)	0.48 (ML)	0.13 (ML)	[0.07, 0.20]	0.17 (ML)	[0.05, 0.28]	
uni	8x	100	5	0.26 (ML)	0.29 (ML)	0.12 (MM)	0.06 (ML)	0.00 (ML)	0.02 (MM)	0.08 (WE)	0.40 (ML)	0.20 (ML)	0.20 (RI)	0.20 (RI,LF0.20)	0.20 (ML)	0.20 (MM,WF0.53)	0.53 (ML)	0.18 (ML)	[0.11, 0.24]	0.18 (ML)	[0.07, 0.29]	
uni	8x	100	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.02 (MM)	0.01 (MM)	0.08 (WE)	0.07 (MM)	0.10 (ML,WF0.20)	0.20 (MM,WF0.30)	0.20 (WE)	0.50 (ML,LF0.30)	0.50 (RI,LF0.59)	0.59 (ML)	0.15 (MM)	[0.14, 0.17]	0.20 (MM)	[0.17, 0.24]	
uni	8x	100	15	0.29 (MM)	0.31 (MM)	0.13 (MM)	0.12 (ML)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.25 (MM)	0.29 (MM)	0.40 (ML,WF0.54)	0.54 (ML)	0.21 (MM)	[0.19, 0.22]	0.28 (MM)	[0.24, 0.31]		
uni	8x	100	20	0.31 (ML)	0.31 (MM)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML)	0.02 (MM)	0.25 (MM)	0.22 (MM)	0.20 (ML,WF0.30)	0.20 (RI,LF0.58)	0.58 (ML)	0.24 (MM)	[0.22, 0.26]	0.33 (MM)	[0.30, 0.36]	

Population			RMSE								IC								CCC					
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC			
uni	8x	500	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.00 (VR)	0.01 (PD)	0.69 (VR)	0.65 (VR)	0.64 (VR)	0.65 (VR)	0.77 (VR)	0.73 (VR)	1.00 (PD)	0.70 (VR)	[0.69, 0.71]	0.95 (VR)	[0.94, 0.95]			
uni	8x	500	3	0.07 (ML)	0.11 (ML)	0.04 (ML)	0.08 (ML)	0.03 (RI)	0.01 (WE)	0.08 (WE)	0.40 (ML)	0.40 (ML)	0.40 (WE)	0.40 (WE)	0.20 (RI)	0.35 (MM)	0.50 (ML)	0.11 (ML)	[0.06, 0.16]	0.17 (ML)	[0.07, 0.25]			
uni	8x	500	4	0.24 (ML)	0.16 (ML)	0.10 (ML)	0.08 (ML)	0.02 (MM)	0.00 (ML)	0.08 (WE)	0.20 (ML)	0.20 (ML)	0.20 (RI)	0.30 (RI)	0.40 (LO)	0.20 (ML)	0.50 (ML)	0.14 (ML)	[0.07, 0.20]	0.21 (ML)	[0.09, 0.32]			
uni	8x	500	5	0.26 (ML)	0.31 (ML)	0.12 (MM)	0.06 (ML)	0.01 (ML)	0.01 (RI)	0.08 (WE)	0.20 (ML)	0.10 (ML)	0.30 (LO, WI)	0.30 (LO, WI)	0.10 (RI, WI)	0.10 (ML, RI)	0.53 (ML)	0.18 (ML)	[0.11, 0.25]	0.19 (ML)	[0.07, 0.30]			
uni	8x	500	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.02 (ML)	0.08 (WE)	0.08 (MM)	0.10 (ML, RI)	0.20 (MM, RI)	0.20 (RI, LI)	0.45 (MM)	0.40 (ML, LI)	0.64 (ML)	0.16 (MM)	[0.14, 0.18]	0.21 (MM)	[0.18, 0.25]			
uni	8x	500	15	0.29 (MM)	0.31 (MM)	0.12 (MM)	0.12 (ML)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.27 (MM)	0.29 (MM)	0.60 (ML)	0.30 (ML, RI)	0.51 (ML)	0.21 (MM)	[0.19, 0.23]	0.28 (MM)	[0.25, 0.31]			
uni	8x	500	20	0.30 (ML)	0.30 (MM)	0.14 (MM)	0.13 (MM)	0.03 (MM)	0.02 (MM)	0.07 (WE)	0.03 (MM)	0.01 (MM)	0.25 (MM)	0.26 (MM)	0.20 (ML, RI)	0.40 (LO)	0.57 (ML)	0.24 (MM)	[0.22, 0.26]	0.33 (MM)	[0.30, 0.36]			
uni	8x	1000	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.00 (LO)	0.01 (PD)	0.84 (VR)	0.89 (VR)	1.00 (PD)	0.73 (VR)	[0.72, 0.73]	0.97 (VR)	[0.97, 0.97]							
uni	8x	1000	3	0.07 (ML)	0.13 (ML)	0.06 (RI)	0.08 (ML)	0.04 (WE)	0.03 (LO)	0.08 (WE)	0.40 (ML)	0.40 (ML)	0.40 (WE)	0.40 (WE)	0.10 (LO)	0.34 (MM)	0.52 (ML)	0.11 (ML)	[0.06, 0.16]	0.21 (ML)	[0.11, 0.29]			
uni	8x	1000	4	0.24 (ML)	0.16 (ML)	0.10 (ML)	0.05 (ML)	0.03 (MM)	0.03 (ML)	0.09 (WE)	0.20 (ML)	0.20 (ML)	0.20 (RI)	0.10 (ML, RI)	0.40 (LO)	0.30 (ML)	0.51 (ML)	0.15 (ML)	[0.08, 0.21]	0.20 (ML)	[0.09, 0.31]			
uni	8x	1000	5	0.27 (ML)	0.30 (ML)	0.12 (MM)	0.05 (ML)	0.01 (ML)	0.01 (RI)	0.08 (WE)	0.20 (ML)	0.10 (ML)	0.30 (LO, WI)	0.30 (LO, WI)	0.10 (MM, RI)	0.40 (ML, RI)	0.55 (ML)	0.17 (ML)	[0.10, 0.23]	0.19 (ML)	[0.07, 0.30]			
uni	8x	1000	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.02 (MM)	0.08 (WE)	0.08 (MM)	0.10 (ML)	0.20 (RI, LI)	0.20 (RI, LI)	0.50 (ML)	0.40 (ML, RI)	0.65 (ML)	0.16 (MM)	[0.14, 0.18]	0.21 (MM)	[0.17, 0.25]			
uni	8x	1000	15	0.29 (MM)	0.32 (MM)	0.13 (MM)	0.13 (ML)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.03 (MM)	0.27 (MM)	0.29 (MM)	0.50 (ML, RI)	0.30 (ML, RI)	0.51 (ML)	0.21 (MM)	[0.19, 0.23]	0.28 (MM)	[0.25, 0.32]			
uni	8x	1000	20	0.31 (ML)	0.30 (MM)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.02 (MM)	0.07 (WE)	0.03 (MM)	0.02 (MM)	0.25 (MM)	0.26 (MM)	0.20 (ML)	0.40 (RI, LI)	0.57 (ML)	0.24 (MM)	[0.22, 0.26]	0.33 (MM)	[0.30, 0.36]			
uni	4x*	5	2	0.02 (ML)	0.03 (VR)	0.04 (RI)	0.01 (LO)	0.03 (VR)	0.02 (WE)	0.03 (PD)	0.20 (RI)	0.10 (WE)	0.17 (MM)	0.17 (MM)	0.13 (FA)	0.43 (PD)	0.69 (PD)	0.11 (VR)	[0.10, 0.12]	0.18 (VR)	[0.16, 0.20]			
uni	4x*	5	3	0.03 (RI)	0.11 (RI)	0.01 (MM)	0.01 (RI)	0.03 (MM)	0.04 (MM)	0.08 (RI)	0.20 (ML)	0.22 (ML)	0.20 (ML, LI)	0.17 (ML)	0.30 (LO)	0.20 (RI)	0.45 (ML)	0.11 (ML)	[0.10, 0.13]	0.19 (ML)	[0.16, 0.22]			
uni	4x*	5	4	0.09 (RI)	0.14 (ML)	0.03 (LO)	0.01 (ML)	0.01 (MM)	0.04 (MM)	0.07 (WE)	0.27 (ML)	0.19 (ML)	0.40 (WE)	0.21 (ML)	0.30 (LO)	0.30 (WE)	0.46 (ML)	0.16 (ML)	[0.14, 0.18]	0.21 (ML)	[0.17, 0.24]			
uni	4x*	5	5	0.06 (ML)	0.08 (ML)	0.02 (MM)	0.00 (RI)	0.04 (ML)	0.00 (WE)	0.07 (WE)	0.25 (ML)	0.30 (RI, WI)	0.20 (RI, LO)	0.30 (LO, WI)	0.30 (LO, WI)	0.49 (ML)	0.21 (ML)	[0.19, 0.23]	0.24 (LO)	[0.14, 0.33]				
uni	4x*	5	10	0.12 (ML)	0.17 (ML)	0.01 (ML)	0.03 (ML)	0.03 (ML)	0.02 (MM)	0.07 (WE)	0.40 (RI, LI)	0.20 (RI)	0.39 (ML)	0.36 (ML)	0.22 (MM)	0.30 (RI, LI)	0.51 (ML)	0.31 (ML)	[0.29, 0.33]	0.43 (ML)	[0.40, 0.46]			
uni	4x*	5	15	0.10 (LO)	0.15 (RI)	0.02 (ML)	0.01 (RI)	0.00 (MM)	0.03 (ML)	0.07 (WE)	0.21 (ML)	0.10 (MM, RI)	0.45 (ML)	0.44 (ML)	0.50 (LO)	0.30 (RI, LI)	0.56 (ML)	0.36 (ML)	[0.35, 0.38]	0.49 (ML)	[0.46, 0.52]			
uni	4x*	5	20	0.11 (ML)	0.17 (ML)	0.00 (LO)	0.04 (ML)	0.02 (MM)	0.00 (RI)	0.07 (WE)	0.21 (ML)	0.17 (ML)	0.49 (ML)	0.32 (ML)	0.32 (MM)	0.34 (ML)	0.59 (ML)	0.39 (ML)	[0.37, 0.40]	0.54 (ML)	[0.51, 0.56]			
uni	4x*	10	2	0.04 (VR)	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.01 (LO)	0.01 (VR)	0.03 (PD)	0.17 (ML)	0.20 (LO)	0.17 (ML)	0.17 (ML)	0.30 (WE)	0.39 (PD)	0.73 (PD)	0.20 (VR)	[0.19, 0.22]	0.29 (VR)	[0.26, 0.31]			
uni	4x*	10	3	0.06 (ML)	0.06 (LO)	0.00 (MM)	0.02 (ML)	0.04 (MM)	0.05 (MM)	0.09 (MM)	0.30 (LO)	0.30 (LO)	0.20 (LO)	0.24 (ML)	0.11 (ML)	0.30 (WE)	0.49 (ML)	0.19 (ML)	[0.17, 0.20]	0.24 (ML)	[0.21, 0.27]			
uni	4x*	10	4	0.13 (ML)	0.16 (ML)	0.00 (WE)	0.04 (ML)	0.02 (WE)	0.01 (MM)	0.07 (WE)	0.30 (WE)	0.22 (ML)	0.22 (ML)	0.24 (ML)	0.15 (MM, RI)	0.29 (ML)	0.50 (ML)	0.26 (WE)	[0.21, 0.30]	0.27 (ML)	[0.23, 0.30]			
uni	4x*	10	5	0.09 (ML)	0.16 (ML)	0.01 (MM)	0.03 (ML)	0.04 (MM)	0.01 (MM)	0.06 (WE)	0.21 (ML)	0.12 (ML)	0.30 (RI)	0.40 (RI)	0.21 (ML)	0.26 (ML)	0.53 (ML)	0.28 (ML)	[0.26, 0.30]	0.34 (ML)	[0.31, 0.37]			
uni	4x*	10	10	0.12 (LO)	0.11 (LO)	0.00 (MM)	0.06 (ML)	0.01 (MM)	0.01 (MM)	0.09 (WE)	0.20 (WE)	0.20 (RI, WI)	0.50 (LO)	0.32 (ML)	0.32 (MM)	0.40 (LO)	0.58 (ML)	0.36 (ML)	[0.34, 0.37]	0.49 (ML)	[0.47, 0.52]			
uni	4x*	10	15	0.13 (ML)	0.11 (LO)	0.00 (LO)	0.01 (RI)	0.00 (MM)	0.00 (LO)	0.08 (WE)	0.09 (ML)	0.10 (RI)	0.50 (LO)	0.50 (WE)	0.35 (MM)	0.60 (RI, LI)	0.62 (ML)	0.48 (WE)	[0.43, 0.52]	0.54 (ML)	[0.52, 0.57]			
uni	4x*	10	20	0.14 (ML)	0.16 (ML)	0.00 (ML)	0.06 (ML)	0.01 (LO)	0.00 (MM)	0.08 (WE)	0.10 (ML, RI)	0.10 (RI, LI)	0.63 (ML)	0.30 (RI, LI)	0.38 (MM)	0.60 (LO)	0.66 (ML)	0.43 (WE)	[0.38, 0.48]	0.60 (ML)	[0.58, 0.63]			
uni	4x*	15	2	0.01 (VR)	0.02 (VR)	0.02 (ML)	0.03 (VR)	0.04 (VR)	0.04 (VR)	0.03 (PD)	0.30 (LO)	0.30 (LO, WI)	0.18 (VR)	0.18 (FA)	0.21 (MM)	0.34 (PD)	0.68 (PD)	0.26 (VR)	[0.24, 0.27]	0.35 (VR)	[0.32, 0.37]			
uni	4x*	15	3	0.08 (ML)	0.12 (RI)	0.00 (MM)	0.00 (ML)	0.01 (MM)	0.04 (MM)	0.08 (WE)	0.20 (LO)	0.20 (LO)	0.40 (WE)	0.21 (ML)	0.50 (LO)	0.21 (ML)	0.51 (ML)	0.20 (ML)	[0.18, 0.22]	0.29 (LO)	[0.20, 0.37]			
uni	4x*	15	4	0.03 (RI)	0.04 (RI)	0.01 (MM)	0.02 (ML)	0.02 (ML)	0.02 (MM)	0.08 (WE)	0.20 (RI, WI)	0.11 (MM)	0.30 (LO)	0.14 (ML)	0.20 (MM, RI)	0.30 (LO)	0.53 (ML)	0.25 (ML)	[0.23, 0.27]	0.35 (ML)	[0.32, 0.38]			
uni	4x*	15	5	0.08 (WE)	0.12 (LO)	0.01 (MM)	0.05 (ML)	0.02 (ML)	0.03 (MM)	0.07 (WE)	0.30 (RI)	0.30 (RI)	0.32 (ML)	0.35 (ML)	0.70 (LO)	0.40 (LO)	0.56 (ML)	0.32 (ML)	[0.30, 0.34]	0.43 (ML)	[0.39, 0.46]			
uni	4x*	15	10	0.11 (LO)	0.19 (ML)	0.01 (LO)	0.05 (LO)	0.01 (RI)	0.01 (MM)	0.08 (WE)	0.40 (LO, WI)	0.04 (MM)	0.49 (ML)	0.32 (ML)	0.40 (LO)	0.41 (ML)	0.63 (ML)	0.39 (WE)	[0.34, 0.44]	0.53 (ML)	[0.50, 0.56]			
uni	4x*	15	15	0.11 (LO)	0.15 (LO)	0.00 (ML)	0.05 (LO)	0.01 (RI)	0.00 (ML)	0.09 (WE)	0.10 (LO, WI)	0.05 (MM)	0.60 (WE)	0.30 (LO)	0.43 (ML)	0.80 (LO)	0.67 (ML)	0.48 (WE)	[0.43, 0.52]	0.56 (ML)	[0.53, 0.58]			
uni	4x*	15	20	0.12 (LO)	0.18 (ML)	0.01 (ML)	0.06 (ML)	0.00 (WE)	0.00 (LO)	0.08 (WE)	0.20 (LO)	0.05 (ML)	0.80 (LO)	0.40 (LO)	0.70 (WE)	0.68 (ML)	0.71 (ML)	0.44 (WE)	[0.39, 0.48]	0.62 (ML)	[0.59, 0.64]			

Population			RMSE								IC								CCC				
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC		
uni	4x*	20	2	0.01 (VR)	0.04 (VR)	0.02 (VR)	0.00 (LO)	0.00 (VR)	0.01 (VR)	0.03 (PD)	0.20 (WE)	0.20 (LO)	0.20 (VR)	0.21 (VR)	0.23 (VR)	0.35 (PD)	0.66 (PD)	0.30 (VR)	[0.29, 0.31]	0.44 (VR)	[0.41, 0.46]		
uni	4x*	20	3	0.00 (RI)	0.17 (ML)	0.00 (LO)	0.01 (ML)	0.01 (MM)	0.00 (MM)	0.07 (RI)	0.30 (LO)	0.20 (LO)	0.20 (ML)	0.10 (LO)	0.20 (RI)	0.20 (RI)	0.52 (ML)	0.24 (WE)	[0.19, 0.29]	0.35 (LO)	[0.26, 0.42]		
uni	4x*	20	4	0.14 (ML)	0.11 (LO)	0.00 (MM)	0.01 (LO)	0.00 (WE)	0.02 (MM)	0.08 (WE)	0.17 (ML)	0.20 (LO)	0.37 (ML)	0.23 (ML)	0.12 (MM)	0.31 (ML)	0.56 (ML)	0.28 (ML)	[0.26, 0.30]	0.37 (ML)	[0.34, 0.40]		
uni	4x*	20	5	0.08 (LO)	0.15 (ML)	0.01 (MM)	0.04 (ML)	0.01 (ML)	0.03 (ML)	0.07 (WE)	0.30 (RI)	0.10 (RI)	0.10 (RI)	0.33 (ML)	0.30 (LO)	0.10 (LO)	0.30 (RI)	0.59 (ML)	0.31 (ML)	[0.29, 0.32]	0.44 (LO)	[0.34, 0.52]	
uni	4x*	20	10	0.08 (LO)	0.18 (ML)	0.01 (ML)	0.06 (LO)	0.00 (RI)	0.01 (LO)	0.08 (WE)	0.50 (LO)	0.03 (MM)	0.02 (ML)	0.52 (ML)	0.25 (ML)	0.70 (RI)	0.50 (LO)	0.66 (ML)	0.40 (WE)	[0.35, 0.45]	0.56 (LO)	[0.48, 0.63]	
uni	4x*	20	15	0.09 (LO)	0.14 (RI)	0.01 (ML)	0.00 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.30 (LO)	0.10 (LO)	0.10 (LO)	0.60 (LO)	0.30 (RI)	0.10 (LO)	0.50 (RI)	0.57 (ML)	0.71 (ML)	0.50 (WE)	[0.45, 0.54]	0.57 (ML)	[0.55, 0.60]
uni	4x*	20	20	0.13 (LO)	0.18 (ML)	0.01 (ML)	0.06 (ML)	0.00 (ML)	0.00 (LO)	0.08 (WE)	0.07 (ML)	0.06 (ML)	0.60 (RI)	0.30 (ML)	0.10 (LO)	0.60 (RI)	0.61 (ML)	0.75 (ML)	0.52 (WE)	[0.48, 0.56]	0.65 (LO)	[0.58, 0.71]	
uni	4x*	50	2	0.01 (VR)	0.01 (VR)	0.00 (ML)	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.03 (PD)	0.30 (VR)	0.21 (ML)	0.28 (VR)	0.37 (VR)	0.25 (VR)	0.46 (PD)	0.74 (PD)	0.47 (VR)	[0.45, 0.48]	0.66 (VR)	[0.64, 0.68]		
uni	4x*	50	3	0.01 (WE)	0.15 (RI)	0.00 (ML)	0.05 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.20 (RI)	0.10 (14)	0.20 (ML)	0.20 (RI)	0.08 (ML)	0.20 (LO)	0.22 (ML)	0.57 (ML)	0.29 (WE)	[0.24, 0.34]	0.38 (WE)	[0.29, 0.47]	
uni	4x*	50	4	0.13 (RI)	0.18 (RI)	0.01 (RI)	0.02 (LO)	0.01 (ML)	0.02 (MM)	0.08 (WE)	0.30 (RI)	0.20 (RI)	0.24 (MM)	0.09 (ML)	0.28 (ML)	0.37 (ML)	0.62 (ML)	0.33 (WE)	[0.28, 0.38]	0.41 (ML)	[0.38, 0.44]		
uni	4x*	50	5	0.12 (ML)	0.16 (ML)	0.00 (MM)	0.04 (LO)	0.01 (ML)	0.01 (ML)	0.07 (WE)	0.10 (LO)	0.10 (MM)	0.41 (ML)	0.50 (LO)	0.34 (ML)	0.50 (LO)	0.67 (ML)	0.35 (WE)	[0.30, 0.40]	0.45 (ML)	[0.41, 0.48]		
uni	4x*	50	10	0.10 (LO)	0.20 (ML)	0.01 (ML)	0.06 (LO)	0.00 (ML)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.01 (MM)	0.60 (LO)	0.30 (LO)	0.80 (RI)	0.80 (RI)	0.76 (ML)	0.49 (WE)	[0.44, 0.54]	0.60 (LO)	[0.52, 0.67]		
uni	4x*	50	15	0.09 (LO)	0.14 (LO)	0.01 (LO)	0.00 (LO)	0.00 (MM)	0.00 (RI)	0.08 (WE)	0.20 (LO)	0.03 (ML)	0.66 (ML)	0.60 (LO)	0.70 (ML)	0.80 (WE)	0.81 (ML)	0.53 (WE)	[0.49, 0.57]	0.60 (ML)	[0.58, 0.62]		
uni	4x*	50	20	0.12 (LO)	0.17 (LO)	0.01 (ML)	0.07 (ML)	0.00 (MM)	0.00 (RI)	0.08 (WE)	0.01 (ML)	0.04 (MM)	0.90 (RI)	0.17 (ML)	0.75 (ML)	0.90 (LO)	0.83 (ML)	0.57 (WE)	[0.54, 0.61]	0.68 (LO)	[0.62, 0.73]		
uni	4x*	100	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.03 (PD)	0.44 (VR)	0.30 (VR)	0.28 (VR)	0.42 (VR)	0.39 (VR)	0.52 (PD)	0.83 (PD)	0.59 (VR)	[0.58, 0.60]	0.79 (VR)	[0.78, 0.81]		
uni	4x*	100	3	0.01 (WE)	0.16 (LO)	0.01 (ML)	0.04 (ML)	0.00 (LO)	0.01 (MM)	0.09 (WE)	0.05 (MM)	0.15 (MM)	0.13 (ML)	0.30 (RI)	0.10 (RI)	0.24 (ML)	0.60 (ML)	0.28 (WE)	[0.23, 0.33]	0.35 (ML)	[0.32, 0.38]		
uni	4x*	100	4	0.13 (RI)	0.16 (RI)	0.00 (WE)	0.02 (RI)	0.01 (LO)	0.01 (RI)	0.08 (WE)	0.05 (MM)	0.10 (RI)	0.26 (ML)	0.20 (RI)	0.26 (ML)	0.39 (ML)	0.66 (ML)	0.35 (WE)	[0.30, 0.40]	0.41 (ML)	[0.38, 0.44]		
uni	4x*	100	5	0.11 (ML)	0.18 (ML)	0.00 (MM)	0.07 (ML)	0.01 (ML)	0.00 (ML)	0.07 (WE)	0.03 (ML)	0.13 (MM)	0.39 (ML)	0.08 (ML)	0.60 (LO)	0.49 (ML)	0.72 (ML)	0.40 (WE)	[0.35, 0.45]	0.46 (ML)	[0.43, 0.49]		
uni	4x*	100	10	0.11 (LO)	0.20 (ML)	0.02 (ML)	0.07 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.01 (ML)	0.04 (MM)	0.90 (LO)	0.20 (LO)	0.80 (LO)	0.64 (ML)	0.80 (ML)	0.47 (WE)	[0.43, 0.52]	0.63 (LO)	[0.56, 0.70]		
uni	4x*	100	15	0.10 (LO)	0.12 (LO)	0.00 (RI)	0.02 (LO)	0.00 (ML)	0.01 (ML)	0.08 (WE)	0.10 (LO)	0.10 (05)	0.71 (ML)	0.30 (LO)	0.80 (LO)	0.90 (RI)	0.83 (ML)	0.55 (WE)	[0.51, 0.59]	0.61 (ML)	[0.58, 0.63]		
uni	4x*	100	20	0.13 (LO)	0.18 (ML)	0.00 (LO)	0.07 (ML)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.10 (LO)	0.10 (03)	0.70 (MM)	0.90 (RI)	0.20 (LO)	0.90 (LO)	0.78 (ML)	0.85 (ML)	0.56 (WE)	[0.53, 0.60]	0.68 (LO)	[0.63, 0.73]	
uni	4x*	500	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.03 (PD)	0.73 (VR)	0.68 (VR)	0.71 (VR)	0.74 (VR)	0.68 (VR)	0.63 (VR)	0.90 (PD)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]		
uni	4x*	500	3	0.01 (LO)	0.18 (ML)	0.00 (ML)	0.05 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.00 (MM)	0.10 (20)	0.10 (RI)	0.10 (RI)	0.00 (MM)	0.10 (13)	0.60 (ML)	0.32 (WE)	[0.27, 0.36]	0.39 (RI)	[0.30, 0.48]		
uni	4x*	500	4	0.15 (RI)	0.18 (RI)	0.01 (WE)	0.00 (RI)	0.00 (LO)	0.01 (RI)	0.08 (WE)	0.01 (MM)	0.10 (RI)	0.20 (RI)	0.10 (LE)	0.50 (RI)	0.40 (RI)	0.67 (ML)	0.36 (WE)	[0.31, 0.41]	0.42 (ML)	[0.38, 0.45]		
uni	4x*	500	5	0.12 (ML)	0.18 (ML)	0.00 (MM)	0.07 (ML)	0.02 (ML)	0.01 (ML)	0.07 (WE)	0.00 (MM)	0.10 (RI)	0.18 (ML)	0.00 (MM)	0.40 (LO)	0.41 (ML)	0.73 (ML)	0.42 (WE)	[0.37, 0.47]	0.48 (LO)	[0.39, 0.56]		
uni	4x*	500	10	0.12 (LO)	0.20 (LO)	0.02 (ML)	0.07 (LO)	0.00 (LO)	0.00 (ML)	0.08 (WE)	0.00 (MM)	0.02 (MM)	0.80 (LO)	0.10 (LO)	0.90 (LO)	0.80 (LO)	0.81 (ML)	0.51 (WE)	[0.46, 0.55]	0.62 (LO)	[0.54, 0.69]		
uni	4x*	500	15	0.10 (LO)	0.13 (LO)	0.00 (RI)	0.02 (LO)	0.00 (LO)	0.01 (ML)	0.08 (WE)	0.00 (MM)	0.03 (MM)	0.90 (RI)	0.10 (LO)	0.83 (ML)	1.00 (LO)	0.84 (ML)	0.57 (WE)	[0.54, 0.61]	0.61 (ML)	[0.58, 0.63]		
uni	4x*	500	20	0.13 (LO)	0.18 (ML)	0.02 (ML)	0.07 (ML)	0.00 (ML)	0.00 (RI)	0.08 (WE)	0.00 (MM)	0.03 (MM)	1.00 (RI)	0.20 (LO)	0.90 (ML)	0.92 (MM)	0.85 (ML)	0.57 (WE)	[0.54, 0.61]	0.69 (LO)	[0.63, 0.74]		
uni	4x*	1000	2	0.00 (VR)	0.03 (PD)	0.85 (VR)	0.89 (VR)	0.82 (VR)	0.85 (VR)	0.86 (VR)	0.88 (VR)	0.90 (PD)	0.74 (VR)	[0.73, 0.75]	0.97 (VR)	[0.97, 0.97]							
uni	4x*	1000	3	0.00 (LO)	0.18 (ML)	0.00 (ML)	0.06 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.01 (MM)	0.10 (20)	0.10 (RI)	0.10 (00)	0.00 (MM)	0.10 (13)	0.60 (ML)	0.32 (WE)	[0.27, 0.37]	0.40 (RI)	[0.30, 0.48]		
uni	4x*	1000	4	0.16 (ML)	0.20 (LO)	0.00 (WE)	0.01 (RI)	0.01 (RI)	0.01 (ML)	0.08 (WE)	0.02 (MM)	0.10 (WE)	0.30 (RI)	0.10 (RI)	0.40 (RI)	0.30 (RI)	0.67 (ML)	0.37 (WE)	[0.32, 0.42]	0.42 (MM)	[0.39, 0.45]		
uni	4x*	1000	5	0.12 (ML)	0.18 (ML)	0.00 (MM)	0.08 (ML)	0.02 (ML)	0.01 (ML)	0.07 (WE)	0.01 (MM)	0.10 (RI)	0.12 (ML)	0.00 (MM)	0.30 (LO)	0.37 (ML)	0.73 (ML)	0.42 (WE)	[0.37, 0.47]	0.48 (LO)	[0.38, 0.56]		
uni	4x*	1000	10	0.11 (LO)	0.20 (ML)	0.02 (ML)	0.06 (LO)	0.00 (RI)	0.00 (ML)	0.08 (WE)	0.00 (MM)	0.04 (MM)	0.90 (LO)	0.30 (LO)	0.90 (RI)	0.83 (ML)	0.81 (ML)	0.50 (WE)	[0.46, 0.55]	0.63 (LO)	[0.55, 0.69]		
uni	4x*	1000	15	0.09 (LO)	0.13 (LO)	0.00 (RI)	0.01 (LO)	0.00 (RI)	0.01 (LO)	0.08 (WE)	0.00 (MM)	0.03 (MM)	0.91 (ML)	0.20 (LO)	0.90 (ML)	1.00 (RI)	0.84 (ML)	0.57 (WE)	[0.53, 0.61]	0.61 (LO)	[0.54, 0.67]		
uni	4x*	1000	20	0.12 (LO)	0.18 (ML)	0.01 (LO)	0.07 (LO)	0.00 (ML)	0.00 (WE)	0.08 (WE)	0.00 (MM)	0.03 (MM)	1.00 (RI)	0.30 (LO)	0.91 (MM)	0.93 (MM)	0.85 (ML)	0.59 (WE)	[0.55, 0.62]	0.70 (LO)	[0.64, 0.74]		

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
uni	6x*	5	2	0.05 (ML)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.01 (MM)	0.15 (ML)	0.20 (WE)	0.20 (WE)	0.10 (RI), 0.14 (VR)	0.47 (PD)	0.95 (PD)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]		
uni	6x*	5	3	0.04 (ML)	0.05 (RI)	0.02 (WE)	0.07 (MM)	0.05 (MM)	0.00 (LO)	0.07 (MM)	0.20 (ML)	0.19 (ML)	0.20 (WE)	0.20 (LO), 0.20 (LO)	0.21 (ML)	0.44 (ML)	0.09 (ML)	[0.07, 0.10]	0.11 (ML)	[0.08, 0.15]		
uni	6x*	5	4	0.13 (ML)	0.18 (ML)	0.00 (RI)	0.00 (WE)	0.02 (RI)	0.03 (MM)	0.08 (WE)	0.30 (RI)	0.30 (WE)	0.30 (RI)	0.30 (LO), 0.30 (LO)	0.22 (ML)	0.46 (ML)	0.13 (ML)	[0.11, 0.14]	0.15 (ML)	[0.12, 0.18]		
uni	6x*	5	5	0.15 (LO)	0.20 (ML)	0.02 (MM)	0.00 (ML)	0.02 (MM)	0.07 (MM)	0.09 (WE)	0.15 (ML)	0.20 (WE)	0.16 (MM)	0.40 (LO)	0.30 (WE)	0.30 (ML)	0.48 (ML)	0.14 (ML)	[0.12, 0.16]	0.22 (ML)	[0.19, 0.26]	
uni	6x*	5	10	0.09 (LO)	0.23 (ML)	0.01 (MM)	0.05 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.24 (ML)	0.10 (ML)	0.30 (LO)	0.20 (LO), 0.19 (MM)	0.25 (ML)	0.51 (ML)	0.24 (ML)	[0.22, 0.26]	0.40 (LO)	[0.31, 0.49]		
uni	6x*	5	15	0.08 (LO)	0.22 (ML)	0.01 (MM)	0.01 (LO)	0.02 (ML)	0.02 (MM)	0.08 (WE)	0.40 (RI)	0.11 (ML)	0.30 (RI)	0.24 (ML)	0.28 (MM)	0.29 (ML)	0.54 (ML)	0.27 (ML)	[0.25, 0.29]	0.38 (ML)	[0.35, 0.41]	
uni	6x*	5	20	0.09 (LO)	0.21 (ML)	0.00 (RI)	0.03 (LO)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.40 (WE)	0.05 (MM), 0.60 (LO)	0.30 (RI), 0.26 (MM)	0.40 (RI), 0.54 (ML)	0.40 (RI), 0.54 (ML)	0.29 (ML)	[0.27, 0.31]	0.42 (ML)	[0.39, 0.45]			
uni	6x*	10	2	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.02 (PD)	0.15 (ML)	0.20 (LO)	0.10 (LO)	0.30 (LO), 0.17 (FA)	0.48 (PD)	0.96 (PD)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.28]		
uni	6x*	10	3	0.05 (RI)	0.16 (ML)	0.01 (LO)	0.01 (RI)	0.04 (LO)	0.02 (LO)	0.07 (WE)	0.30 (LO)	0.22 (ML)	0.10 (WE)	0.20 (RI), 0.13 (ML)	0.18 (ML)	0.46 (ML)	0.14 (ML)	[0.12, 0.16]	0.20 (WE)	[0.12, 0.29]		
uni	6x*	10	4	0.15 (ML)	0.20 (ML)	0.02 (WE)	0.00 (RI)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.18 (ML)	0.20 (ML)	0.18 (MM)	0.20 (RI)	0.19 (ML)	0.30 (WE)	0.48 (ML)	0.20 (ML)	[0.18, 0.22]	0.19 (ML)	[0.15, 0.22]	
uni	6x*	10	5	0.16 (ML)	0.20 (ML)	0.01 (ML)	0.04 (ML)	0.01 (WE)	0.00 (LO)	0.08 (WE)	0.21 (ML)	0.16 (ML)	0.30 (LO)	0.20 (RI)	0.40 (RI), 0.30 (LO)	0.50 (ML)	0.21 (ML)	[0.19, 0.23]	0.28 (ML)	[0.24, 0.31]		
uni	6x*	10	10	0.12 (LO)	0.22 (ML)	0.00 (ML)	0.06 (ML)	0.01 (MM)	0.02 (RI)	0.08 (WE)	0.20 (RI)	0.09 (MM), 0.40 (RI)	0.27 (MM), 0.24 (ML)	0.29 (ML)	0.55 (ML)	0.28 (WE)	[0.23, 0.34]	0.49 (LO)	[0.40, 0.57]			
uni	6x*	10	15	0.15 (ML)	0.20 (ML)	0.00 (MM)	0.06 (ML)	0.00 (LO)	0.00 (MM)	0.08 (WE)	0.13 (ML)	0.13 (ML)	0.50 (RI)	0.40 (RI), 0.40 (RI)	0.60 (LO)	0.58 (ML)	0.32 (WE)	[0.27, 0.37]	0.47 (LO)	[0.38, 0.55]		
uni	6x*	10	20	0.09 (LO)	0.21 (ML)	0.01 (ML)	0.07 (LO)	0.01 (ML)	0.01 (WE)	0.08 (WE)	0.20 (RI)	0.10 (ML), 0.40 (WE)	0.20 (RI), 0.40 (RI)	0.30 (RI), 0.39 (ML)	0.62 (ML)	0.31 (WE)	[0.26, 0.36]	0.46 (LO)	[0.37, 0.54]			
uni	6x*	15	2	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.01 (LO)	0.02 (PD)	0.17 (VR)	0.19 (VR)	0.20 (LO), 0.17 (VR)	0.40 (LO)	0.45 (PD)	0.95 (PD)	0.25 (VR)	[0.23, 0.26]	0.36 (VR)	[0.33, 0.38]		
uni	6x*	15	3	0.09 (ML)	0.15 (RI)	0.00 (RI)	0.02 (ML)	0.04 (WE)	0.01 (LO)	0.07 (WE)	0.21 (ML)	0.13 (ML)	0.12 (MM), 0.30 (WE)	0.12 (ML)	0.18 (ML)	0.47 (ML)	0.16 (ML)	[0.14, 0.18]	0.21 (ML)	[0.18, 0.25]		
uni	6x*	15	4	0.15 (ML)	0.19 (ML)	0.01 (MM)	0.01 (LO)	0.04 (ML)	0.02 (MM)	0.06 (WE)	0.30 (ML)	0.16 (ML)	0.22 (MM)	0.20 (LO), 0.16 (MM)	0.20 (WE)	0.48 (ML)	0.20 (ML)	[0.18, 0.22]	0.25 (ML)	[0.21, 0.28]		
uni	6x*	15	5	0.13 (WE)	0.21 (ML)	0.00 (ML)	0.01 (RI)	0.01 (MM)	0.02 (LO)	0.08 (WE)	0.30 (ML), 0.16 (ML)	0.40 (RI)	0.30 (RI)	0.19 (ML)	0.40 (LO)	0.51 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.29, 0.36]		
uni	6x*	15	10	0.16 (ML)	0.22 (ML)	0.01 (MM)	0.07 (ML)	0.00 (RI)	0.00 (WE)	0.08 (WE)	0.17 (MM), 0.11 (ML)	0.40 (WE)	0.21 (ML)	0.60 (RI), 0.32 (ML)	0.57 (ML)	0.31 (WE)	[0.26, 0.36]	0.47 (LO)	[0.37, 0.55]			
uni	6x*	15	15	0.14 (LO)	0.22 (ML)	0.02 (MM)	0.06 (LO)	0.01 (MM)	0.00 (LO)	0.08 (WE)	0.20 (MM)	0.06 (ML)	0.60 (WE)	0.40 (WE)	0.40 (RI), 0.62 (ML)	0.33 (WE)	[0.27, 0.37]	0.44 (LO)	[0.35, 0.52]			
uni	6x*	15	20	0.08 (LO)	0.21 (LO)	0.00 (MM)	0.03 (LO)	0.00 (MM)	0.00 (MM)	0.07 (WE)	0.14 (MM), 0.07 (ML)	0.41 (MM)	0.30 (RI), 0.60 (LO)	0.60 (LO)	0.66 (ML)	0.35 (WE)	[0.30, 0.40]	0.51 (LO)	[0.43, 0.58]			
uni	6x*	20	2	0.03 (VR)	0.03 (VR)	0.01 (VR)	0.01 (VR)	0.05 (MM)	0.04 (FA)	0.02 (PD)	0.20 (WE)	0.21 (VR)	0.20 (WE)	0.20 (WE)	0.19 (FA)	0.50 (PD)	0.93 (PD)	0.28 (VR)	[0.27, 0.29]	0.42 (VR)	[0.40, 0.45]	
uni	6x*	20	3	0.09 (ML)	0.20 (ML)	0.01 (MM)	0.00 (ML)	0.01 (WE)	0.04 (RI)	0.07 (WE)	0.20 (ML), 0.30 (LO)	0.20 (RI)	0.20 (LO), 0.10 (WE)	0.50 (WE)	0.48 (ML)	0.18 (ML)	[0.16, 0.20]	0.25 (ML)	[0.21, 0.28]			
uni	6x*	20	4	0.16 (ML)	0.20 (ML)	0.02 (MM)	0.06 (LO)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.40 (RI)	0.20 (RI)	0.20 (WE)	0.20 (WE)	0.17 (ML)	0.50 (LO)	0.49 (ML)	0.21 (ML)	[0.19, 0.23]	0.26 (ML)	[0.22, 0.29]	
uni	6x*	20	5	0.07 (LO)	0.21 (ML)	0.01 (ML)	0.00 (LO)	0.01 (MM)	0.00 (LO)	0.08 (WE)	0.22 (ML)	0.12 (ML)	0.30 (RI), 0.30 (LO)	0.49 (LO)	0.51 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.30, 0.36]			
uni	6x*	20	10	0.13 (LO)	0.23 (ML)	0.01 (MM)	0.08 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.18 (MM), 0.10 (RI)	0.20 (RI), 0.30 (LO)	0.20 (LO)	0.28 (ML)	0.50 (WE)	0.59 (ML)	0.31 (WE)	[0.26, 0.36]	0.46 (RI)	[0.37, 0.54]		
uni	6x*	20	15	0.17 (ML)	0.22 (LO)	0.00 (MM)	0.06 (LO)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.20 (LO), 0.20 (LO)	0.60 (RI)	0.30 (WE)	0.34 (ML)	0.40 (ML)	0.64 (ML)	0.34 (WE)	[0.29, 0.39]	0.45 (ML)	[0.42, 0.48]		
uni	6x*	20	20	0.11 (LO)	0.23 (ML)	0.00 (MM)	0.08 (LO)	0.01 (MM)	0.00 (RI)	0.08 (WE)	0.13 (ML)	0.08 (ML)	0.45 (ML)	0.50 (LO)	0.49 (ML)	0.58 (ML)	0.68 (ML)	0.36 (WE)	[0.31, 0.41]	0.48 (LO)	[0.39, 0.56]	
uni	6x*	50	2	0.00 (VR)	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.03 (VR)	0.01 (VR)	0.01 (PD)	0.23 (VR)	0.27 (VR)	0.30 (WE)	0.30 (LO)	0.28 (VR)	0.52 (PD)	0.95 (PD)	0.46 (VR)	[0.44, 0.47]	0.65 (VR)	[0.63, 0.67]	
uni	6x*	50	3	0.07 (LO)	0.20 (ML)	0.01 (MM)	0.02 (ML)	0.01 (WE)	0.05 (ML)	0.08 (WE)	0.40 (LO)	0.30 (LO), 0.20 (WE)	0.16 (MM)	0.11 (ML)	0.25 (ML)	0.48 (ML)	0.24 (ML)	[0.22, 0.26]	0.26 (ML)	[0.23, 0.30]		
uni	6x*	50	4	0.15 (ML)	0.21 (ML)	0.01 (MM)	0.03 (RI)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.30 (RI)	0.11 (ML)	0.30 (RI), 0.24 (MM)	0.20 (RI)	0.30 (RI)	0.52 (ML)	0.24 (ML)	[0.22, 0.26]	0.29 (ML)	[0.26, 0.33]		
uni	6x*	50	5	0.13 (LO)	0.22 (ML)	0.01 (ML)	0.01 (LO)	0.01 (MM)	0.01 (LO)	0.08 (WE)	0.23 (ML)	0.11 (MM)	0.12 (MM)	0.31 (MM)	0.20 (LO), 0.30 (LO)	0.46 (ML)	0.26 (ML)	[0.24, 0.28]	0.35 (ML)	[0.32, 0.38]		
uni	6x*	50	10	0.17 (ML)	0.24 (ML)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.14 (MM)	0.07 (MM)	0.60 (LO)	0.14 (ML)	0.20 (RI), 0.40 (LO)	0.61 (ML)	0.29 (WE)	[0.24, 0.34]	0.48 (LO)	[0.39, 0.56]		
uni	6x*	50	15	0.16 (LO)	0.23 (ML)	0.00 (RI)	0.05 (LO)	0.00 (LO)	0.01 (ML)	0.08 (WE)	0.19 (ML)	0.10 (RI)	0.40 (RI)	0.13 (MM)	0.40 (LO)	0.47 (ML)	0.67 (ML)	0.34 (WE)	[0.29, 0.38]	0.44 (ML)	[0.41, 0.47]	
uni	6x*	50	20	0.10 (LO)	0.22 (LO)	0.00 (ML)	0.08 (LO)	0.00 (RI)	0.00 (ML)	0.08 (WE)	0.20 (RI), 0.02 (ML)	0.60 (LO)	0.10 (RI), 0.54 (ML)	0.55 (ML)	0.72 (ML)	0.39 (WE)	[0.34, 0.43]	0.45 (ML)	[0.42, 0.47]			

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
uni	6x*	100	2	0.01 (VR)	0.01 (VR)	0.00 (WE)	0.01 (ML)	0.01 (VR)	0.01 (VR)	0.02 (PD)	0.28 (VR)	0.37 (VR)	0.50 (WE)	0.37 (VR)	0.33 (VR)	0.48 (PD)	0.94 (PD)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.76, 0.79]	
uni	6x*	100	3	0.03 (RI)	0.21 (ML)	0.01 (MM)	0.04 (ML)	0.02 (MM)	0.04 (ML)	0.08 (WE)	0.40 (LO)	0.20 (LO)	0.20 (LO)	0.50 (LO,WE)	0.30 (WE)	0.24 (ML)	0.49 (ML)	0.23 (ML)	[0.21, 0.25]	0.28 (ML)	[0.25, 0.32]	
uni	6x*	100	4	0.16 (RI)	0.22 (ML)	0.00 (MM)	0.04 (RI)	0.02 (ML)	0.00 (LO)	0.07 (WE)	0.27 (ML)	0.10 (RI,LO)	0.50 (WE)	0.26 (MM)	0.40 (RI,LO)	0.50 (LO)	0.54 (ML)	0.25 (ML)	[0.23, 0.27]	0.31 (ML)	[0.28, 0.35]	
uni	6x*	100	5	0.15 (LO)	0.22 (ML)	0.01 (ML)	0.02 (LO)	0.01 (MM)	0.01 (LO)	0.09 (WE)	0.40 (RI)	0.10 (LO,WE)	0.20 (RI)	0.26 (MM)	0.20 (LO,WE)	0.40 (WE)	0.54 (ML)	0.27 (ML)	[0.26, 0.29]	0.37 (ML)	[0.34, 0.41]	
uni	6x*	100	10	0.16 (LO)	0.24 (ML)	0.00 (MM)	0.09 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.21 (ML)	0.04 (ML)	0.30 (LO)	0.18 (MM)	0.40 (LO)	0.31 (ML)	0.60 (ML)	0.31 (WE)	[0.26, 0.36]	0.51 (LO)	[0.42, 0.59]	
uni	6x*	100	15	0.17 (LO)	0.23 (ML)	0.00 (MM)	0.07 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.21 (MM)	0.10 (RI,LO)	0.40 (LO)	0.20 (RI,WE)	0.30 (RI,LO)	0.41 (ML)	0.68 (ML)	0.37 (WE)	[0.32, 0.41]	0.46 (LO)	[0.37, 0.54]	
uni	6x*	100	20	0.12 (LO)	0.23 (ML)	0.01 (ML)	0.08 (LO)	0.01 (LO)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (MM)	0.44 (ML)	0.10 (RI,LO)	0.49 (ML)	0.64 (ML)	0.73 (ML)	0.39 (WE)	[0.35, 0.44]	0.48 (LO)	[0.40, 0.55]	
uni	6x*	500	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.67 (VR)	0.60 (VR)	0.74 (VR)	0.69 (VR)	0.82 (VR)	0.77 (VR)	0.92 (PD)	0.72 (VR)	[0.71, 0.72]	0.94 (VR)	[0.94, 0.95]		
uni	6x*	500	3	0.04 (RI)	0.20 (ML)	0.01 (MM)	0.03 (ML)	0.00 (WE)	0.02 (RI)	0.08 (WE)	0.50 (LO,WE)	0.10 (RI,LO)	0.17 (ML)	0.40 (WE)	0.10 (RI)	0.18 (ML)	0.47 (ML)	0.25 (ML)	[0.23, 0.27]	0.29 (ML)	[0.26, 0.33]	
uni	6x*	500	4	0.16 (ML)	0.21 (ML)	0.01 (ML)	0.03 (RI)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.23 (ML)	0.10 (RI,WE)	0.50 (LO,WE)	0.33 (MM)	0.40 (WE)	0.50 (LO,WE)	0.61 (ML)	0.26 (ML)	[0.24, 0.28]	0.33 (ML)	[0.30, 0.36]	
uni	6x*	500	5	0.16 (LO)	0.22 (ML)	0.01 (ML)	0.02 (LO)	0.01 (MM)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (ML)	0.30 (LO,WE)	0.32 (MM)	0.20 (LO,WE)	0.50 (WE)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.38 (ML)	[0.35, 0.41]	
uni	6x*	500	10	0.14 (LO)	0.24 (ML)	0.00 (ML)	0.09 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.19 (MM)	0.01 (MM,LO)	0.01 (ML)	0.20 (ML)	0.03 (ML)	0.17 (ML)	0.60 (ML)	0.32 (WE)	[0.27, 0.37]	0.51 (LO)	[0.42, 0.59]	
uni	6x*	500	15	0.17 (LO)	0.23 (LO)	0.00 (MM)	0.06 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.20 (MM,WE)	0.01 (ML)	0.14 (ML)	0.20 (RI,LO)	0.20 (RI,LO)	0.39 (ML)	0.68 (ML)	0.37 (WE)	[0.32, 0.41]	0.46 (LO)	[0.37, 0.54]	
uni	6x*	500	20	0.12 (LO)	0.23 (LO)	0.00 (WE)	0.08 (LO)	0.00 (RI)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (MM)	0.50 (LO)	0.10 (RI,LO)	0.80 (LO)	0.73 (ML)	0.73 (ML)	0.40 (WE)	[0.35, 0.44]	0.50 (LO)	[0.42, 0.57]	
uni	6x*	1000	2	0.00 (VR)	0.02 (PD)	0.79 (VR)	0.87 (VR)	0.83 (VR)	0.82 (VR)	0.85 (VR)	0.84 (VR)	0.91 (PD)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]						
uni	6x*	1000	3	0.11 (LO)	0.21 (ML)	0.00 (LO)	0.03 (ML)	0.00 (RI)	0.04 (ML)	0.08 (WE)	0.50 (LO,WE)	0.30 (LO)	0.24 (ML)	0.22 (ML)	0.20 (RI)	0.22 (ML)	0.47 (ML)	0.24 (ML)	[0.22, 0.26]	0.29 (ML)	[0.26, 0.33]	
uni	6x*	1000	4	0.16 (ML)	0.22 (ML)	0.00 (MM)	0.02 (LO)	0.02 (ML)	0.00 (LO)	0.07 (WE)	0.22 (MM)	0.10 (RI,WE)	0.60 (WE)	0.28 (MM)	0.40 (WE)	0.50 (LO)	0.62 (ML)	0.26 (ML)	[0.24, 0.28]	0.33 (ML)	[0.30, 0.37]	
uni	6x*	1000	5	0.15 (LO)	0.22 (ML)	0.01 (ML)	0.02 (LO)	0.01 (MM)	0.00 (WE)	0.08 (WE)	0.20 (RI)	0.10 (WE)	0.30 (WE)	0.33 (MM,LO)	0.30 (LO)	0.50 (WE)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.38 (ML)	[0.35, 0.41]	
uni	6x*	1000	10	0.15 (LO)	0.24 (ML)	0.00 (ML)	0.09 (ML)	0.00 (MM)	0.00 (RI)	0.08 (WE)	0.20 (MM)	0.01 (MM,LO)	0.10 (LO)	0.18 (ML)	0.10 (RI,LO)	0.17 (ML)	0.60 (ML)	0.33 (WE)	[0.28, 0.37]	0.51 (LO)	[0.42, 0.59]	
uni	6x*	1000	15	0.17 (LO)	0.23 (LO)	0.00 (MM)	0.06 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.20 (MM)	0.02 (MM,LO)	0.15 (ML)	0.20 (RI,LO)	0.30 (LO)	0.33 (ML)	0.68 (ML)	0.38 (WE)	[0.33, 0.42]	0.46 (LO)	[0.38, 0.54]	
uni	6x*	1000	20	0.12 (LO)	0.23 (LO)	0.00 (WE)	0.08 (LO)	0.00 (LO)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (MM)	0.60 (RI)	0.10 (RI,LO)	0.80 (LO)	0.74 (ML)	0.73 (ML)	0.40 (WE)	[0.36, 0.44]	0.50 (LO)	[0.42, 0.57]	
uni	8x*	5	2	0.02 (VR)	0.03 (VR)	0.03 (VR)	0.00 (LO)	0.01 (VR)	0.01 (PD)	0.10 (RI,LO)	0.20 (LO)	0.14 (VR)	0.40 (LO)	0.15 (VR)	0.48 (PD)	0.99 (PD)	0.11 (VR)	[0.10, 0.12]	0.15 (VR)	[0.13, 0.17]		
uni	8x*	5	3	0.03 (ML)	0.38 (ML)	0.02 (ML)	0.08 (ML)	0.03 (ML)	0.03 (LO)	0.04 (MM)	0.10 (ML)	0.01 (MM)	0.20 (WE)	0.10 (RI,WE)	0.10 (ML,LO)	0.30 (WE)	0.44 (MM)	0.04 (MM)	[0.02, 0.05]	0.13 (ML)	[0.05, 0.20]	
uni	8x*	5	4	0.13 (ML)	0.11 (ML)	0.02 (ML)	0.03 (ML)	0.04 (LO)	0.05 (MM)	0.04 (WE)	0.11 (MM)	0.20 (ML,LO)	0.20 (RI)	0.50 (ML)	0.20 (ML,LO)	0.16 (MM)	0.48 (ML)	0.07 (ML)	[0.02, 0.12]	0.17 (LO)	[0.09, 0.26]	
uni	8x*	5	5	0.29 (ML)	0.33 (MM)	0.02 (ML)	0.14 (MM)	0.00 (RI)	0.03 (LO)	0.06 (WE)	0.20 (ML)	0.12 (MM)	0.20 (ML,LO)	0.10 (RI,LO)	0.30 (ML)	0.44 (ML)	0.08 (LO)	[0.03, 0.12]	0.07 (MM)	[0.04, 0.09]		
uni	8x*	5	10	0.28 (ML)	0.15 (ML)	0.10 (MM)	0.12 (MM)	0.00 (RI)	0.00 (MM)	0.07 (WE)	0.11 (MM)	0.20 (ML)	0.30 (LO)	0.20 (LO)	0.18 (MM)	0.50 (LO)	0.51 (ML)	0.14 (ML)	[0.07, 0.20]	0.19 (WE)	[0.10, 0.28]	
uni	8x*	5	15	0.29 (MM)	0.32 (MM)	0.11 (MM)	0.13 (MM)	0.02 (ML)	0.01 (ML)	0.06 (WE)	0.11 (MM)	0.07 (MM)	0.20 (MM,LO)	0.40 (LO)	0.30 (ML)	0.40 (ML,WE)	0.56 (ML)	0.18 (WE)	[0.12, 0.23]	0.20 (MM)	[0.17, 0.24]	
uni	8x*	5	20	0.28 (ML)	0.29 (MM)	0.11 (MM)	0.13 (MM)	0.00 (ML)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.09 (MM)	0.21 (MM)	0.30 (ML)	0.30 (ML)	0.23 (MM)	0.53 (ML)	0.22 (ML)	[0.16, 0.28]	0.29 (ML)	[0.18, 0.39]	
uni	8x*	10	2	0.01 (VR)	0.06 (VR)	0.04 (VR)	0.01 (VR)	0.01 (WE)	0.00 (VR)	0.01 (PD)	0.20 (ML)	0.16 (VR)	0.16 (VR)	0.14 (VR)	0.20 (WE)	0.43 (PD)	0.99 (PD)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.28]	
uni	8x*	10	3	0.06 (ML)	0.14 (ML)	0.06 (ML)	0.02 (ML)	0.01 (MM)	0.06 (MM)	0.20 (ML)	0.10 (ML,RIO)	0.12 (MM)	0.30 (WE)	0.20 (RI,WE)	0.16 (MM)	0.46 (ML)	0.04 (MM)	[0.02, 0.05]	0.12 (ML)	[0.03, 0.20]		
uni	8x*	10	4	0.25 (ML)	0.31 (MM)	0.03 (ML)	0.09 (ML)	0.01 (ML)	0.01 (MM)	0.06 (WE)	0.30 (ML)	0.12 (MM)	0.20 (ML,RIO)	0.12 (MM)	0.10 (ML,RIO)	0.40 (WE)	0.48 (ML)	0.10 (ML)	[0.04, 0.16]	0.18 (LO)	[0.09, 0.27]	
uni	8x*	10	5	0.29 (ML)	0.32 (ML)	0.07 (ML)	0.04 (ML)	0.01 (ML)	0.03 (MM)	0.07 (WE)	0.10 (RI,WE)	0.10 (ML)	0.20 (RI)	0.30 (ML)	0.11 (MM)	0.20 (ML)	0.49 (ML)	0.07 (MM)	[0.05, 0.08]	0.14 (ML)	[0.02, 0.25]	
uni	8x*	10	10	0.23 (ML)	0.28 (ML)	0.11 (MM)	0.13 (ML)	0.02 (ML)	0.01 (MM)	0.07 (WE)	0.20 (ML)	0.20 (RI)	0.20 (ML)	0.16 (MM)	0.20 (WE)	0.55 (ML)	0.14 (MM)	[0.12, 0.15]	0.19 (MM)	[0.16, 0.23]		
uni	8x*	10	15	0.29 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.01 (ML)	0.07 (WE)	0.03 (MM)	0.02 (MM)	0.19 (MM)	0.21 (MM)	0.30 (ML,LO)	0.30 (RI,LO)	0.57 (ML)	0.18 (MM)	[0.16, 0.19]	0.23 (MM)	[0.20, 0.27]	
uni	8x*	10	20	0.31 (MM)	0.29 (MM)	0.12 (MM)	0.13 (ML)	0.02 (MM)	0.00 (ML)	0.07 (WE)	0.02 (MM)	0.10 (ML,RIO)	0.23 (MM)	0.20 (ML,WE)	0.30 (MM)	0.21 (MM)	0.49 (ML)	0.07 (MM)	[0.19, 0.23]	0.31 (MM)	[0.28, 0.34]	

Population			RMSE								IC								CCC			
dist	2n	loci	a1	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
uni	8x*	15	2	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.04 (VR)	0.02 (VR)	0.04 (VR)	0.01 (PD)	0.11 (VR)	0.13 (VR)	0.30 (WE)	0.20 (WE)	0.23 (FA)	0.47 (PD)	0.99 (PD)	0.26 (VR)	[0.25, 0.27]	0.35 (VR)	[0.33, 0.38]	
uni	8x*	15	3	0.01 (ML)	0.16 (ML)	0.07 (ML)	0.08 (ML)	0.05 (ML)	0.00 (WE)	0.07 (MM)	0.20 (LO)	0.10 (RI)	0.12 (MM)	0.20 (RI), L0.11 (MM)	0.30 (LO)	0.43 (ML)	0.08 (ML)	[0.02, 0.13]	0.08 (WE)	[0.01, 0.16]		
uni	8x*	15	4	0.28 (WE)	0.25 (ML)	0.04 (ML)	0.14 (ML)	0.02 (WE)	0.01 (LO)	0.04 (WE)	0.10 (MM), M0.20 (WE)	0.14 (MM)	0.20 (ML)	0.20 (WE)	0.13 (MM)	0.49 (ML)	0.13 (ML)	[0.07, 0.19]	0.16 (RI)	[0.08, 0.24]		
uni	8x*	15	5	0.30 (MM)	0.32 (ML)	0.05 (ML)	0.10 (ML)	0.02 (MM)	0.04 (ML)	0.08 (LO)	0.11 (MM)	0.12 (MM)	0.20 (RI)	0.20 (RI)	0.20 (WE)	0.20 (WE)	0.49 (ML)	0.08 (MM)	[0.07, 0.10]	0.17 (MM)	[0.14, 0.20]	
uni	8x*	15	10	0.27 (ML)	0.29 (ML)	0.10 (MM)	0.14 (MM)	0.02 (ML)	0.00 (MM)	0.06 (WE)	0.10 (ML)	0.10 (ML), R0.17 (MM)	0.30 (ML)	0.25 (MM)	0.30 (ML)	0.54 (ML)	0.15 (MM)	[0.13, 0.16]	0.21 (WE)	[0.11, 0.31]		
uni	8x*	15	15	0.29 (MM)	0.32 (MM)	0.12 (MM)	0.15 (MM)	0.05 (MM)	0.00 (MM)	0.07 (WE)	0.10 (ML), R0.02 (MM)	0.30 (ML), R0.15 (MM)	0.40 (ML)	0.40 (ML), R0.30 (ML)	0.58 (ML)	0.19 (MM)	[0.17, 0.21]	0.25 (MM)	[0.21, 0.28]			
uni	8x*	15	20	0.31 (MM)	0.29 (MM)	0.12 (MM)	0.14 (ML)	0.02 (MM)	0.01 (MM)	0.08 (WE)	0.02 (MM)	0.05 (MM)	0.29 (MM)	0.22 (MM)	0.30 (RI), L0.28 (MM)	0.59 (ML)	0.22 (MM)	[0.20, 0.24]	0.32 (MM)	[0.29, 0.35]		
uni	8x*	20	2	0.02 (VR)	0.05 (VR)	0.02 (VR)	0.00 (ML)	0.04 (VR)	0.05 (PD)	0.01 (PD)	0.21 (VR)	0.14 (VR)	0.18 (VR)	0.13 (VR)	0.23 (VR)	0.50 (PD)	0.99 (PD)	0.28 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]	
uni	8x*	20	3	0.06 (ML)	0.18 (ML)	0.06 (ML)	0.03 (RI)	0.08 (ML)	0.02 (MM)	0.04 (WE)	0.20 (ML), R0.10 (LO)	0.10 (L0), W0.13 (MM)	0.30 (LO)	0.20 (WE)	0.30 (RI)	0.46 (ML)	0.05 (MM)	[0.03, 0.06]	0.14 (ML)	[0.05, 0.23]		
uni	8x*	20	4	0.31 (ML)	0.29 (ML)	0.07 (ML)	0.08 (ML)	0.02 (ML)	0.01 (LO)	0.08 (WE)	0.10 (ML)	0.30 (ML)	0.11 (MM)	0.30 (ML)	0.10 (LO), W0.40 (WE)	0.50 (ML)	0.08 (ML)	[0.02, 0.14]	0.12 (LO)	[0.04, 0.21]		
uni	8x*	20	5	0.31 (MM)	0.34 (MM)	0.08 (ML)	0.07 (ML)	0.00 (MM)	0.02 (MM)	0.06 (WE)	0.11 (MM)	0.20 (RI)	0.30 (RI)	0.12 (MM)	0.13 (MM)	0.20 (ML)	0.51 (ML)	0.10 (MM)	[0.08, 0.11]	0.14 (MM)	[0.10, 0.17]	
uni	8x*	20	10	0.31 (MM)	0.24 (ML)	0.11 (MM)	0.15 (MM)	0.03 (MM)	0.01 (MM)	0.06 (WE)	0.03 (MM)	0.20 (RI), W0.18 (MM)	0.20 (ML)	0.24 (MM)	0.15 (MM)	0.57 (ML)	0.16 (MM)	[0.14, 0.18]	0.20 (MM)	[0.17, 0.24]		
uni	8x*	20	15	0.29 (MM)	0.31 (MM)	0.12 (MM)	0.14 (MM)	0.05 (MM)	0.00 (MM)	0.07 (WE)	0.10 (ML)	0.02 (MM)	0.24 (MM)	0.20 (ML), R0.40 (ML)	0.21 (MM)	0.58 (ML)	0.20 (MM)	[0.18, 0.22]	0.26 (MM)	[0.22, 0.29]		
uni	8x*	20	20	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.07 (WE)	0.02 (MM)	0.02 (MM)	0.24 (MM)	0.20 (MM)	0.30 (ML), W0.40 (LO)	0.60 (ML)	0.23 (MM)	[0.21, 0.25]	0.32 (MM)	[0.29, 0.35]		
uni	8x*	50	2	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (PD)	0.30 (VR)	0.28 (VR)	0.29 (VR)	0.26 (VR)	0.32 (VR)	0.39 (PD)	0.99 (PD)	0.47 (VR)	[0.45, 0.48]	0.66 (VR)	[0.64, 0.67]	
uni	8x*	50	3	0.02 (ML)	0.13 (ML)	0.06 (ML)	0.02 (ML)	0.01 (ML)	0.01 (MM)	0.05 (WE)	0.20 (ML), W0.20 (ML)	0.20 (RI)	0.20 (RI)	0.20 (ML), R0.50 (LO)	0.46 (ML)	0.06 (MM)	[0.05, 0.08]	0.12 (RI)	[0.04, 0.20]			
uni	8x*	50	4	0.31 (MM)	0.27 (ML)	0.07 (ML)	0.05 (ML)	0.01 (ML)	0.01 (MM)	0.07 (WE)	0.15 (MM)	0.10 (MM), M0.16 (MM)	0.20 (RI), L0.16 (MM)	0.30 (LO), W0.50 (ML)	0.13 (ML)	[0.06, 0.19]	0.22 (ML)	[0.11, 0.33]				
uni	8x*	50	5	0.31 (MM)	0.32 (ML)	0.09 (MM)	0.07 (ML)	0.02 (MM)	0.03 (MM)	0.07 (WE)	0.14 (MM)	0.10 (ML), W0.30 (ML)	0.30 (ML)	0.14 (MM)	0.20 (MM)	0.51 (ML)	0.12 (MM)	[0.10, 0.13]	0.17 (MM)	[0.14, 0.20]		
uni	8x*	50	10	0.30 (ML)	0.27 (ML)	0.11 (MM)	0.15 (MM)	0.02 (MM)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.10 (ML), R0.22 (MM)	0.13 (MM)	0.29 (MM)	0.18 (MM)	0.58 (ML)	0.17 (MM)	[0.15, 0.19]	0.24 (MM)	[0.21, 0.28]		
uni	8x*	50	15	0.29 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.10 (ML)	0.24 (MM)	0.19 (MM)	0.30 (LO)	0.14 (MM)	0.56 (ML)	0.21 (MM)	[0.19, 0.23]	0.27 (MM)	[0.24, 0.31]	
uni	8x*	50	20	0.31 (MM)	0.30 (MM)	0.11 (MM)	0.15 (MM)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.03 (MM)	0.02 (MM)	0.32 (MM)	0.19 (MM)	0.30 (ML), R0.30 (LO)	0.58 (ML)	0.24 (MM)	[0.23, 0.26]	0.35 (MM)	[0.31, 0.38]		
uni	8x*	100	2	0.02 (VR)	0.02 (VR)	0.03 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (PD)	0.41 (VR)	0.44 (VR)	0.44 (VR)	0.43 (VR)	0.40 (VR)	0.47 (PD)	1.00 (PD)	0.57 (VR)	[0.56, 0.58]	0.78 (VR)	[0.77, 0.80]	
uni	8x*	100	3	0.05 (ML)	0.17 (ML)	0.05 (ML)	0.03 (ML)	0.08 (ML)	0.01 (MM)	0.05 (WE)	0.10 (LO), W0.10 (ML)	0.10 (ML), R0.10 (ML)	0.29 (MM)	0.45 (ML)	0.07 (MM)	[0.05, 0.08]	0.17 (ML)	[0.08, 0.26]				
uni	8x*	100	4	0.30 (MM)	0.28 (ML)	0.04 (ML)	0.07 (ML)	0.03 (ML)	0.01 (MM)	0.07 (WE)	0.11 (MM)	0.10 (ML)	0.19 (MM)	0.20 (RI)	0.12 (MM)	0.30 (LO), W0.51 (ML)	0.12 (ML)	[0.06, 0.18]	0.24 (ML)	[0.12, 0.35]		
uni	8x*	100	5	0.31 (MM)	0.32 (ML)	0.10 (MM)	0.07 (ML)	0.01 (ML)	0.03 (MM)	0.07 (WE)	0.08 (MM)	0.09 (MM)	0.11 (MM)	0.20 (ML)	0.16 (MM)	0.14 (MM)	0.50 (ML)	0.12 (MM)	[0.10, 0.14]	0.18 (MM)	[0.15, 0.21]	
uni	8x*	100	10	0.30 (ML)	0.27 (ML)	0.11 (MM)	0.13 (MM)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.20 (ML)	0.21 (MM)	0.11 (MM)	0.28 (MM)	0.20 (WE)	0.60 (ML)	0.17 (MM)	[0.15, 0.19]	0.24 (MM)	[0.20, 0.27]	
uni	8x*	100	15	0.29 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.10 (ML)	0.30 (MM)	0.20 (MM)	0.40 (LO)	0.10 (ML), W0.56 (ML)	0.21 (MM)	[0.19, 0.23]	0.28 (MM)	[0.25, 0.32]		
uni	8x*	100	20	0.31 (MM)	0.30 (MM)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.03 (MM)	0.34 (MM)	0.28 (MM)	0.30 (ML), R0.20 (RI)	0.57 (ML)	0.25 (MM)	[0.23, 0.26]	0.35 (MM)	[0.32, 0.38]		
uni	8x*	500	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (PD)	0.71 (VR)	0.67 (VR)	0.75 (VR)	0.78 (VR)	0.72 (VR)	0.68 (VR)	1.00 (PD)	0.72 (VR)	[0.72, 0.73]	0.94 (VR)	[0.94, 0.95]	
uni	8x*	500	3	0.06 (ML)	0.12 (ML)	0.00 (ML)	0.06 (ML)	0.03 (ML)	0.00 (MM)	0.06 (WE)	0.50 (ML)	0.10 (ML), W0.04 (MM)	0.50 (LO)	0.20 (ML)	0.35 (MM)	0.45 (ML)	0.09 (ML)	[0.04, 0.15]	0.13 (ML)	[0.04, 0.22]		
uni	8x*	500	4	0.30 (MM)	0.29 (ML)	0.07 (ML)	0.09 (ML)	0.02 (ML)	0.01 (MM)	0.07 (WE)	0.10 (RI)	0.04 (MM)	0.13 (MM)	0.11 (MM)	0.12 (MM)	0.13 (MM)	0.53 (ML)	0.13 (ML)	[0.06, 0.19]	0.24 (ML)	[0.12, 0.35]	
uni	8x*	500	5	0.32 (MM)	0.33 (MM)	0.10 (MM)	0.07 (ML)	0.00 (MM)	0.02 (ML)	0.07 (WE)	0.10 (ML)	0.07 (MM)	0.10 (MM), M0.20 (ML)	0.14 (MM)	0.24 (MM)	0.50 (ML)	0.12 (MM)	[0.11, 0.14]	0.18 (MM)	[0.14, 0.21]		
uni	8x*	500	10	0.30 (MM)	0.27 (ML)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.20 (ML)	0.18 (MM)	0.12 (MM)	0.35 (MM)	0.12 (MM)	0.67 (ML)	0.18 (MM)	[0.16, 0.20]	0.26 (MM)	[0.22, 0.29]	
uni	8x*	500	15	0.30 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.03 (MM)	0.33 (MM)	0.22 (MM)	0.50 (ML), L0.10 (ML)	0.53 (ML)	0.22 (MM)	[0.20, 0.24]	0.28 (MM)	[0.25, 0.32]		
uni	8x*	500	20	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.02 (MM)	0.32 (MM)	0.29 (MM)	0.30 (ML), R0.30 (LO)	0.56 (ML)	0.25 (MM)	[0.23, 0.27]	0.35 (MM)	[0.32, 0.38]		

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
uni	8x*	1000	2	0.00 (VR)	0.01 (ML)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.01 (PD)	0.85 (VR)	0.86 (VR)	0.90 (VR)	0.86 (VR)	0.88 (VR)	0.87 (VR)	1.00 (PD)	0.74 (VR)	[0.73, 0.75]	0.97 (VR)	[0.96, 0.97]	
uni	8x*	1000	3	0.06 (ML)	0.13 (ML)	0.02 (ML)	0.03 (ML)	0.04 (ML)	0.02 (MM)	0.06 (WE)	0.40 (ML)	0.20 (ML)	0.03 (MM)	0.50 (LO)	0.30 (RI)	0.40 (LO)	0.44 (ML)	0.10 (ML)	[0.05, 0.15]	0.16 (ML)	[0.07, 0.25]	
uni	8x*	1000	4	0.29 (ML)	0.29 (ML)	0.06 (ML)	0.10 (ML)	0.01 (ML)	0.00 (MM)	0.07 (WE)	0.10 (ML)	R10.03 (MM)	0.10 (ML)	L10.30 (ML)	0.15 (MM)	0.30 (WE)	0.53 (ML)	0.13 (ML)	[0.06, 0.19]	0.23 (ML)	[0.12, 0.34]	
uni	8x*	1000	5	0.32 (MM)	0.33 (MM)	0.10 (MM)	0.08 (ML)	0.00 (ML)	0.03 (MM)	0.07 (WE)	0.10 (ML)	R10.09 (MM)	0.12 (MM)	0.20 (ML)	0.20 (RI)	0.22 (MM)	0.49 (ML)	0.13 (MM)	[0.11, 0.14]	0.18 (MM)	[0.14, 0.21]	
uni	8x*	1000	10	0.31 (MM)	0.26 (ML)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.06 (MM)	0.20 (ML)	0.20 (MM)	0.10 (ML)	R10.36 (MM)	0.16 (MM)	0.68 (ML)	0.18 (MM)	[0.16, 0.20]	0.25 (MM)	[0.22, 0.29]	
uni	8x*	1000	15	0.30 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.03 (MM)	0.32 (MM)	0.23 (MM)	0.50 (ML)	R10.10 (ML)	R10.54 (ML)	0.22 (MM)	[0.20, 0.24]	0.28 (MM)	[0.25, 0.32]	
uni	8x*	1000	20	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.03 (MM)	0.36 (MM)	0.29 (MM)	0.30 (ML)	R10.30 (RI)	L10.56 (MM)	0.25 (MM)	[0.23, 0.27]	0.35 (MM)	[0.32, 0.38]	
tri	2x	5	2	0.02 (ML)	0.01 (MM)	0.00 (RI)	0.05 (VR)	0.00 (MM)	0.01 (MM)	0.02 (RI)	0.33 (ML)	0.20 (RI)	0.10 (LO)	W10.20 (LO)	W10.20 (RI)	0.20 (LO)	0.47 (ML)	0.15 (ML)	[0.14, 0.17]	0.18 (LO)	[0.11, 0.25]	
tri	2x	5	3	0.01 (MM)	0.01 (WE)	0.00 (LO)	0.03 (MM)	0.01 (LO)	0.01 (MM)	0.05 (WE)	0.51 (ML)	0.17 (ML)	0.12 (ML)	0.20 (RI)	0.12 (MM)	0.27 (ML)	0.50 (ML)	0.24 (ML)	[0.22, 0.25]	0.26 (ML)	[0.23, 0.28]	
tri	2x	5	4	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.03 (MM)	0.02 (WE)	0.01 (MM)	0.03 (WE)	0.71 (ML)	0.30 (WE)	0.18 (MM)	0.30 (WE)	0.30 (LO)	W10.30 (LO)	0.52 (ML)	0.29 (ML)	[0.27, 0.30]	0.36 (ML)	[0.34, 0.39]	
tri	2x	5	5	0.01 (WE)	0.01 (MM)	0.01 (MM)	0.02 (LO)	0.03 (MM)	0.00 (LO)	0.09 (RI)	0.60 (ML)	0.21 (ML)	0.20 (RI)	W10.30 (WE)	0.16 (MM)	0.27 (ML)	0.54 (ML)	0.34 (ML)	[0.33, 0.36]	0.45 (ML)	[0.42, 0.47]	
tri	2x	5	10	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.00 (RI)	0.01 (LO)	0.02 (WE)	0.06 (WE)	0.85 (ML)	0.30 (RI)	0.30 (RI)	0.30 (RI)	0.23 (MM)	0.40 (LO)	0.59 (ML)	0.50 (ML)	[0.49, 0.52]	0.66 (ML)	[0.64, 0.68]	
tri	2x	5	15	0.00 (MM)	0.01 (ML)	0.01 (RI)	0.00 (MM)	0.00 (MM)	0.01 (WE)	0.06 (WE)	0.72 (ML)	0.30 (RI)	R10.30 (RI)	0.31 (MM)	0.30 (LO)	W10.37 (ML)	0.63 (ML)	0.59 (ML)	[0.57, 0.60]	0.73 (ML)	[0.71, 0.75]	
tri	2x	5	20	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.02 (ML)	0.00 (MM)	0.02 (MM)	0.07 (WE)	0.85 (MM)	0.30 (LO)	0.30 (MM)	R10.30 (LO)	0.50 (WE)	0.50 (ML)	0.66 (ML)	0.61 (ML)	[0.60, 0.62]	0.77 (ML)	[0.75, 0.78]	
tri	2x	10	2	0.01 (ML)	0.01 (MM)	0.00 (LO)	0.00 (VR)	0.03 (VR)	0.01 (MM)	0.08 (WE)	0.47 (ML)	0.27 (ML)	0.20 (LO)	0.10 (MM)	R10.30 (WE)	0.25 (ML)	0.51 (ML)	0.26 (ML)	[0.24, 0.27]	0.32 (LO)	[0.24, 0.39]	
tri	2x	10	3	0.01 (MM)	0.00 (WE)	0.01 (MM)	0.02 (WE)	0.03 (RI)	0.02 (MM)	0.10 (MM)	0.59 (ML)	0.22 (ML)	0.20 (RI)	0.40 (LO)	0.14 (ML)	0.38 (ML)	0.54 (ML)	0.38 (ML)	[0.37, 0.40]	0.49 (ML)	[0.46, 0.51]	
tri	2x	10	4	0.03 (ML)	0.01 (RI)	0.02 (ML)	0.02 (ML)	0.01 (WE)	0.04 (LO)	0.07 (WE)	0.75 (ML)	0.29 (ML)	0.20 (WE)	0.40 (WE)	0.40 (LO)	0.40 (RI)	0.56 (ML)	0.47 (ML)	[0.46, 0.49]	0.57 (ML)	[0.55, 0.60]	
tri	2x	10	5	0.02 (RI)	0.01 (ML)	0.00 (MM)	0.01 (MM)	0.02 (ML)	0.03 (MM)	0.07 (WE)	0.82 (ML)	0.24 (MM)	0.30 (WE)	0.21 (MM)	0.30 (RI)	L10.41 (ML)	0.57 (ML)	0.55 (ML)	[0.53, 0.56]	0.67 (ML)	[0.65, 0.69]	
tri	2x	10	10	0.00 (MM)	0.00 (MM)	0.00 (WE)	0.00 (ML)	0.00 (ML)	0.02 (MM)	0.06 (WE)	0.85 (ML)	0.50 (RI)	0.30 (ML)	0.60 (RI)	0.30 (ML)	0.40 (RI)	0.63 (ML)	0.64 (ML)	[0.63, 0.66]	0.77 (ML)	[0.76, 0.79]	
tri	2x	10	15	0.00 (LO)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.07 (WE)	0.79 (ML)	0.40 (RI)	0.37 (MM)	0.40 (LO)	0.40 (RI)	L10.50 (RI)	L10.69 (ML)	0.68 (ML)	[0.67, 0.69]	0.84 (ML)	[0.83, 0.85]	
tri	2x	10	20	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.07 (WE)	0.92 (MM)	0.50 (LO)	W10.40 (WE)	0.40 (LO)	W10.40 (LO)	W10.63 (ML)	0.70 (ML)	0.71 (ML)	[0.70, 0.72]	0.86 (ML)	[0.85, 0.87]	
tri	2x	15	2	0.01 (RI)	0.01 (VR)	0.00 (VR)	0.01 (PD)	0.01 (WE)	0.00 (LO)	0.02 (RI)	0.57 (ML)	0.40 (WE)	0.16 (VR)	0.20 (WE)	0.29 (VR)	0.40 (WE)	0.51 (ML)	0.33 (ML)	[0.31, 0.34]	0.40 (ML)	[0.38, 0.43]	
tri	2x	15	3	0.01 (LO)	0.00 (ML)	0.02 (MM)	0.00 (RI)	0.01 (MN)	0.01 (MM)	0.07 (WE)	0.67 (ML)	0.40 (RI)	0.40 (LO)	0.30 (WE)	0.20 (RI)	0.50 (LO)	0.55 (ML)	0.51 (ML)	[0.50, 0.53]	0.57 (ML)	[0.55, 0.59]	
tri	2x	15	4	0.01 (LO)	0.00 (MM)	0.01 (LO)	0.01 (LO)	0.00 (MM)	0.01 (RI)	0.06 (WE)	0.75 (ML)	0.24 (ML)	0.30 (LO)	0.30 (WE)	0.26 (ML)	0.44 (ML)	0.58 (ML)	0.58 (ML)	[0.57, 0.59]	0.69 (ML)	[0.68, 0.71]	
tri	2x	15	5	0.01 (WE)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.01 (ML)	0.00 (LO)	0.06 (WE)	0.85 (ML)	0.30 (WE)	0.30 (RI)	L10.50 (LO)	W10.30 (RI)	0.45 (ML)	0.59 (ML)	0.63 (ML)	[0.61, 0.64]	0.74 (ML)	[0.73, 0.76]	
tri	2x	15	10	0.00 (RI)	0.01 (LO)	0.01 (RI)	0.00 (RI)	0.00 (WE)	0.00 (RI)	0.06 (WE)	0.85 (ML)	0.30 (RI)	0.50 (WE)	0.50 (RI)	W10.38 (MM)	0.55 (ML)	0.67 (ML)	0.71 (ML)	[0.70, 0.72]	0.85 (ML)	[0.84, 0.86]	
tri	2x	15	15	0.00 (MM)	0.00 (ML)	0.00 (RI)	0.00 (ML)	0.00 (ML)	0.00 (LO)	0.06 (WE)	0.92 (ML)	0.40 (WE)	0.43 (ML)	0.70 (LO)	0.50 (RI)	0.58 (ML)	0.71 (ML)	0.73 (ML)	[0.72, 0.74]	0.88 (ML)	[0.88, 0.89]	
tri	2x	15	20	0.00 (RI)	0.02 (ML)	0.01 (ML)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.06 (WE)	0.95 (ML)	0.40 (RI)	W10.46 (ML)	0.50 (LO)	W10.70 (RI)	0.74 (ML)	0.78 (WE)	[0.75, 0.80]	0.90 (ML)	[0.90, 0.91]		
tri	2x	20	2	0.00 (LO)	0.02 (WE)	0.01 (MM)	0.00 (ML)	0.01 (WE)	0.00 (VR)	0.07 (WE)	0.64 (ML)	0.34 (ML)	0.23 (VR)	0.50 (LO)	0.30 (RI)	0.28 (ML)	0.52 (ML)	0.40 (ML)	[0.38, 0.41]	0.46 (LO)	[0.38, 0.54]	
tri	2x	20	3	0.00 (MM)	0.00 (RI)	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.71 (ML)	0.50 (RI)	0.50 (LO)	0.30 (LO)	0.22 (MM)	0.40 (ML)	0.56 (ML)	0.58 (ML)	[0.57, 0.60]	0.65 (ML)	[0.63, 0.67]	
tri	2x	20	4	0.01 (MM)	0.00 (ML)	0.00 (RI)	0.00 (ML)	0.02 (LO)	0.00 (MM)	0.07 (WE)	0.78 (ML)	0.30 (MM)	0.40 (RI)	0.40 (LO)	0.30 (WE)	0.36 (ML)	0.59 (ML)	0.64 (ML)	[0.62, 0.65]	0.76 (ML)	[0.74, 0.78]	
tri	2x	20	5	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.01 (ML)	0.01 (ML)	0.01 (MM)	0.06 (WE)	0.73 (ML)	0.50 (LO)	0.40 (LO)	0.40 (LO)	0.50 (LO)	0.80 (LO)	0.61 (ML)	0.68 (ML)	[0.67, 0.70]	0.81 (ML)	[0.79, 0.82]	
tri	2x	20	10	0.00 (RI)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (WE)	0.00 (ML)	0.06 (WE)	0.92 (ML)	0.50 (RI)	0.60 (WE)	0.50 (RI)	W10.80 (WE)	0.60 (RI)	W10.69 (ML)	0.73 (WE)	[0.70, 0.75]	0.89 (ML)	[0.88, 0.90]	
tri	2x	20	15	0.00 (MM)	0.01 (MM)	0.00 (ML)	0.01 (RI)	0.00 (MM)	0.00 (ML)	0.06 (WE)	0.94 (MM)	0.47 (ML)	0.60 (WE)	0.40 (RI)	W10.60 (LO)	0.60 (LO)	0.74 (ML)	0.76 (WE)	[0.74, 0.79]	0.91 (ML)	[0.90, 0.91]	
tri	2x	20	20	0.01 (MM)	0.01 (ML)	0.00 (ML)	0.00 (MM)	0.00 (RI)	0.00 (WE)	0.07 (WE)	0.98 (ML)	0.42 (ML)	0.50 (ML)	R10.50 (MM)	R10.60 (RI)	0.64 (ML)	0.76 (ML)	0.81 (WE)	[0.79, 0.83]	0.92 (ML)	[0.91, 0.92]	

Population			RMSE								IC								CCC				
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC		
tri	2x	50	2	0.00 (MM)	0.00 (VR)	0.00 (PD)	0.00 (VR)	0.01 (MM)	0.02 (LO)	0.06 (RI)	0.70 (ML)	0.37 (ML)	0.30 (LO)	0.30 (LO)	0.39 (ML)	0.57 (ML)	0.64 (ML)	[0.62, 0.65]	0.75 (ML)	[0.73, 0.77]			
tri	2x	50	3	0.00 (MM)	0.00 (MM)	0.01 (LO)	0.00 (WE)	0.00 (MM)	0.01 (WE)	0.06 (WE)	0.83 (ML)	0.43 (ML)	0.50 (WE)	0.44 (ML)	0.38 (MM)	0.41 (ML)	0.63 (ML)	0.73 (ML)	[0.72, 0.74]	0.85 (ML)	[0.84, 0.86]		
tri	2x	50	4	0.01 (RI)	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (MM)	0.00 (MM)	0.07 (WE)	0.92 (ML)	0.60 (RI)	0.43 (ML)	0.60 (LO)	0.60 (LO)	0.70 (RI)	0.67 (ML)	0.75 (ML)	[0.74, 0.75]	0.90 (ML)	[0.89, 0.90]		
tri	2x	50	5	0.01 (MM)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.06 (WE)	0.90 (ML)	0.60 (RI)	0.54 (ML)	0.80 (RI)	0.80 (LO)	0.80 (LO)	0.70 (ML)	0.78 (WE)	[0.75, 0.80]	0.91 (ML)	[0.90, 0.92]		
tri	2x	50	10	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.06 (WE)	0.97 (ML)	0.65 (ML)	0.70 (RI)	0.69 (MM)	0.90 (RI)	0.73 (ML)	0.78 (ML)	0.86 (WE)	[0.84, 0.88]	0.95 (ML)	[0.94, 0.95]		
tri	2x	50	15	0.00 (MM)	0.00 (LO)	0.07 (WE)	0.98 (MM)	0.65 (ML)	0.73 (MM)	0.71 (MM)	0.80 (RI)	0.75 (ML)	0.83 (ML)	0.89 (WE)	[0.88, 0.90]	0.96 (ML)	[0.95, 0.96]						
tri	2x	50	20	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.01 (LO)	0.07 (WE)	0.99 (ML)	0.56 (ML)	0.70 (WE)	0.80 (RI)	0.75 (MM)	0.85 (ML)	0.86 (ML)	0.89 (WE)	[0.88, 0.90]	0.96 (ML)	[0.96, 0.97]		
tri	2x	100	2	0.01 (MM)	0.00 (VR)	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.02 (RI)	0.86 (ML)	0.42 (MM)	0.46 (ML)	0.41 (ML)	0.43 (PD)	0.50 (ML)	0.64 (ML)	0.73 (ML)	[0.72, 0.74]	0.86 (ML)	[0.85, 0.87]		
tri	2x	100	3	0.00 (MM)	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.00 (MM)	0.00 (MM)	0.05 (WE)	0.88 (ML)	0.60 (RI)	0.70 (LO)	0.55 (ML)	0.51 (ML)	0.59 (ML)	0.70 (ML)	0.77 (ML)	[0.76, 0.78]	0.92 (ML)	[0.91, 0.92]		
tri	2x	100	4	0.00 (MM)	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.00 (RI)	0.00 (LO)	0.07 (WE)	0.91 (ML)	0.57 (ML)	0.60 (LO)	0.60 (WE)	0.58 (ML)	0.72 (ML)	0.75 (ML)	0.83 (WE)	[0.81, 0.85]	0.94 (ML)	[0.94, 0.94]		
tri	2x	100	5	0.00 (RI)	0.01 (ML)	0.01 (ML)	0.00 (ML)	0.00 (RI)	0.00 (WE)	0.06 (WE)	1.00 (RI)	0.70 (RI)	0.90 (RI)	0.80 (ML)	0.66 (ML)	0.70 (ML)	0.76 (ML)	0.88 (WE)	[0.86, 0.89]	0.94 (ML)	[0.94, 0.95]		
tri	2x	100	10	0.00 (MM)	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.01 (ML)	0.00 (RI)	0.07 (WE)	1.00 (ML)	0.90 (RI)	0.90 (LO)	0.81 (MM)	0.90 (LO)	1.00 (RI)	0.85 (ML)	0.92 (WE)	[0.91, 0.93]	0.96 (ML)	[0.96, 0.97]		
tri	2x	100	15	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.00 (RI)	0.00 (RI)	0.00 (RI)	0.06 (WE)	1.00 (MM)	0.82 (ML)	0.90 (LO)	0.90 (RI)	0.90 (RI)	1.00 (RI)	0.87 (ML)	0.93 (WE)	[0.92, 0.94]	0.97 (LO)	[0.96, 0.98]		
tri	2x	100	20	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.01 (LO)	0.01 (RI)	0.01 (LO)	0.06 (WE)	1.00 (MM)	0.90 (LO)	0.90 (RI)	1.00 (LO)	0.84 (MM)	0.91 (ML)	0.89 (ML)	0.92 (WE)	[0.91, 0.93]	0.97 (LO)	[0.97, 0.98]		
tri	2x	500	2	0.00 (LO)	0.00 (ML)	0.02 (RI)	0.99 (ML)	0.90 (LO)	0.79 (PD)	0.77 (ML)	0.74 (VR)	0.85 (VR)	0.79 (ML)	0.88 (WE)	[0.87, 0.90]	0.96 (ML)	[0.96, 0.97]						
tri	2x	500	3	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.00 (MM)	0.01 (ML)	0.07 (WE)	1.00 (ML)	1.00 (LO)	1.00 (RI)	1.00 (LO)	1.00 (LO)	0.90 (LO)	0.85 (ML)	0.92 (WE)	[0.91, 0.93]	0.97 (ML)	[0.97, 0.98]		
tri	2x	500	4	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (ML)	0.97 (ML)	0.96 (ML)	0.90 (ML)	1.00 (LO)	0.95 (ML)	0.87 (ML)	0.93 (WE)	[0.93, 0.94]	0.98 (LO)	[0.97, 0.98]		
tri	2x	500	5	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM)	0.94 (MM)	0.95 (ML)	1.00 (RI)	0.97 (ML)	1.00 (RI)	0.89 (ML)	0.94 (WE)	[0.93, 0.95]	0.98 (LO)	[0.98, 0.99]		
tri	2x	500	10	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.07 (WE)	1.00 (MM)	1.00 (RI)	1.00 (RI)	1.00 (RI)	1.00 (RI)	0.90 (ML)	0.90 (ML)	0.96 (WE)	[0.96, 0.96]	0.99 (LO)	[0.99, 0.99]		
tri	2x	500	15	0.00 (MM)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	1.00 (ML)	1.00 (RI)	1.00 (LO)	1.00 (MM)	1.00 (ML)	0.96 (WE)	[0.96, 0.96]	0.99 (LO)	[0.99, 0.99]			
tri	2x	500	20	0.00 (ML)	0.00 (RI)	0.00 (LO)	0.01 (ML)	0.01 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	1.00 (ML)	1.00 (RI)	1.00 (LO)	1.00 (MM)	1.00 (ML)	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]			
tri	2x	1000	2	0.00 (MM)	0.00 (LO)	0.00 (PD)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.01 (RI)	1.00 (ML)	1.00 (LO)	0.96 (ML)	0.91 (ML)	0.90 (ML)	0.92 (ML)	0.85 (ML)	0.93 (WE)	[0.92, 0.94]	0.97 (ML)	[0.97, 0.98]		
tri	2x	1000	3	0.00 (MM)	0.00 (LO)	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.00 (ML)	0.07 (WE)	1.00 (MM)	1.00 (ML)	0.98 (ML)	1.00 (RI)	1.00 (RI)	1.00 (LO)	0.88 (ML)	0.96 (WE)	[0.95, 0.96]	0.98 (LO)	[0.98, 0.99]		
tri	2x	1000	4	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM)	1.00 (RI)	1.00 (LO)	1.00 (ML)	1.00 (RI)	1.00 (LO)	0.96 (WE)	[0.95, 0.96]	0.99 (LO)	[0.99, 0.99]			
tri	2x	1000	5	0.00 (MM)	0.00 (LO)	0.00 (LO)	0.01 (ML)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	1.00 (RI)	1.00 (LO)	1.00 (RI)	1.00 (LO)	1.00 (ML)	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]			
tri	2x	1000	10	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.01 (MM)	0.00 (LO)	0.01 (LO)	0.06 (WE)	1.00 (MM)	0.90 (ML)	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 0.99]							
tri	2x	1000	15	0.00 (ML)	0.00 (RI)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.06 (WE)	1.00 (MM)	0.90 (ML)	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 0.99]							
tri	2x	1000	20	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	0.90 (ML)	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 0.99]							
tri	4x	5	2	0.00 (ML)	0.04 (VR)	0.02 (WE)	0.01 (VR)	0.05 (VR)	0.01 (WE)	0.05 (WE)	0.19 (ML)	0.17 (ML)	0.12 (PD)	0.20 (LO)	0.17 (VR)	0.23 (PD)	0.43 (ML)	0.10 (VR)	[0.09, 0.11]	0.16 (FA)	[0.13, 0.19]		
tri	4x	5	3	0.01 (LO)	0.15 (ML)	0.03 (MM)	0.01 (MM)	0.01 (LO)	0.02 (MM)	0.06 (WE)	0.27 (ML)	0.30 (LO)	0.20 (LO)	0.20 (RI)	0.30 (LO)	0.23 (ML)	0.46 (ML)	0.11 (ML)	[0.10, 0.13]	0.13 (ML)	[0.10, 0.16]		
tri	4x	5	4	0.11 (ML)	0.07 (RI)	0.01 (WE)	0.02 (ML)	0.02 (MM)	0.01 (MM)	0.05 (WE)	0.19 (ML)	0.15 (ML)	0.20 (ML)	0.22 (ML)	0.20 (RI)	0.25 (ML)	0.47 (ML)	0.16 (ML)	[0.14, 0.18]	0.23 (LO)	[0.14, 0.30]		
tri	4x	5	5	0.09 (ML)	0.14 (ML)	0.01 (RI)	0.00 (ML)	0.04 (MM)	0.02 (MM)	0.09 (MM)	0.24 (ML)	0.20 (RI)	0.30 (RI)	0.21 (ML)	0.30 (LO)	0.27 (ML)	0.49 (ML)	0.20 (ML)	[0.18, 0.22]	0.24 (ML)	[0.21, 0.27]		
tri	4x	5	10	0.11 (ML)	0.17 (ML)	0.00 (MM)	0.01 (ML)	0.02 (ML)	0.00 (MM)	0.06 (WE)	0.28 (ML)	0.21 (ML)	0.42 (ML)	0.40 (WE)	0.30 (LO)	0.25 (ML)	0.53 (ML)	0.29 (ML)	[0.27, 0.31]	0.38 (RI)	[0.28, 0.47]		
tri	4x	5	15	0.10 (ML)	0.17 (LO)	0.01 (WE)	0.03 (ML)	0.01 (MM)	0.03 (MM)	0.09 (MM)	0.21 (ML)	0.11 (ML)	0.30 (ML)	0.40 (LO)	0.40 (RI)	0.60 (LO)	0.56 (ML)	0.35 (ML)	[0.33, 0.37]	0.44 (ML)	[0.41, 0.47]		
tri	4x	5	20	0.11 (LO)	0.13 (RI)	0.01 (MM)	0.04 (ML)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.30 (LO)	0.15 (ML)	0.42 (ML)	0.36 (ML)	0.30 (WE)	0.30 (RI)	0.59 (ML)	0.37 (ML)	[0.35, 0.39]	0.50 (ML)	[0.47, 0.53]		

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
tri	4x	10	2	0.01 (VR)	0.06 (VR)	0.04 (VR)	0.03 (RI)	0.00 (VR)	0.01 (VR)	0.01 (WE)	0.17 (ML)	0.14 (ML)	0.17 (PD)	0.15 (ML)	0.21 (FA)	0.23 (PD)	0.47 (ML)	0.18 (VR)	[0.17,0.19]	0.27 (VR)	[0.25,0.29]	
tri	4x	10	3	0.09 (ML)	0.11 (ML)	0.05 (MM)	0.02 (ML)	0.01 (LO)	0.03 (LO)	0.05 (WE)	0.21 (ML)	0.21 (ML)	0.20 (ML), I,0.20 (RI)	0.20 (LO)	0.23 (ML)	0.50 (ML)	0.17 (ML)	[0.15,0.19]	0.22 (ML)	[0.19,0.25]		
tri	4x	10	4	0.08 (WE)	0.08 (LO)	0.00 (RI)	0.02 (ML)	0.04 (MM)	0.02 (LO)	0.07 (WE)	0.20 (ML)	0.30 (LO)	0.24 (ML)	0.24 (ML)	0.30 (LO)	0.21 (ML)	0.50 (ML)	0.23 (ML)	[0.21,0.25]	0.27 (ML)	[0.24,0.31]	
tri	4x	10	5	0.13 (ML)	0.08 (RI)	0.00 (MM)	0.02 (ML)	0.01 (MM)	0.01 (RI)	0.09 (MM)	0.30 (WE)	0.30 (RI)	0.24 (ML)	0.40 (RI)	0.30 (RI)	0.30 (RI), I,0.53 (ML)	0.25 (ML)	[0.23,0.27]	0.30 (ML)	[0.27,0.34]		
tri	4x	10	10	0.11 (ML)	0.18 (ML)	0.00 (MM)	0.04 (ML)	0.01 (MM)	0.02 (RI)	0.08 (WE)	0.15 (ML)	0.30 (WE)	0.42 (ML)	0.35 (ML)	0.30 (MM), I,0.60 (RI)	0.57 (ML)	0.34 (ML)	[0.32,0.35]	0.45 (ML)	[0.42,0.48]		
tri	4x	10	15	0.11 (ML)	0.18 (ML)	0.00 (WE)	0.05 (ML)	0.00 (LO)	0.00 (LO)	0.08 (WE)	0.10 (ML), I,0.10 (LO)	0.47 (ML)	0.33 (ML)	0.39 (MM)	0.60 (LO)	0.62 (ML)	0.42 (WE)	[0.38,0.47]	0.55 (ML)	[0.52,0.58]		
tri	4x	10	20	0.11 (ML)	0.16 (LO)	0.02 (MM)	0.01 (WE)	0.00 (RI)	0.01 (MM)	0.07 (WE)	0.20 (RI), I,0.20 (RI), I,0.44 (ML)	0.41 (ML)	0.50 (RI)	0.47 (ML)	0.65 (ML)	0.43 (WE)	[0.38,0.48]	0.57 (ML)	[0.54,0.59]			
tri	4x	15	2	0.01 (VR)	0.02 (VR)	0.03 (WE)	0.00 (RI)	0.02 (VR)	0.01 (PD)	0.04 (WE)	0.17 (VR)	0.16 (ML), I,0.21 (VR)	0.20 (VR)	0.35 (PD)	0.33 (PD)	0.48 (ML)	0.26 (VR)	[0.25,0.28]	0.35 (VR)	[0.33,0.38]		
tri	4x	15	3	0.11 (ML)	0.13 (ML)	0.01 (MM)	0.02 (ML)	0.02 (LO)	0.01 (MM)	0.04 (WE)	0.20 (RI)	0.17 (ML)	0.20 (WE)	0.23 (ML)	0.13 (MM), I,0.32 (ML)	0.50 (ML)	0.19 (ML)	[0.17,0.21]	0.26 (ML)	[0.23,0.29]		
tri	4x	15	4	0.13 (ML)	0.17 (LO)	0.00 (MM)	0.03 (ML)	0.02 (MM)	0.02 (RI)	0.07 (WE)	0.23 (ML)	0.30 (LO)	0.30 (LO)	0.30 (RI)	0.30 (RI), I,0.36 (ML)	0.52 (ML)	0.26 (ML)	[0.24,0.28]	0.33 (ML)	[0.30,0.36]		
tri	4x	15	5	0.09 (WE)	0.08 (RI)	0.02 (MM)	0.03 (ML)	0.00 (MM)	0.01 (MM)	0.09 (MM)	0.16 (ML)	0.12 (MM), I,0.60 (LO)	0.21 (ML)	0.50 (LO)	0.31 (ML)	0.56 (ML)	0.30 (ML)	[0.28,0.32]	0.38 (ML)	[0.35,0.41]		
tri	4x	15	10	0.12 (ML)	0.18 (ML)	0.00 (RI)	0.06 (ML)	0.01 (ML)	0.02 (RI)	0.05 (WE)	0.11 (ML)	0.09 (MM)	0.43 (ML)	0.50 (LO)	0.60 (LO)	0.80 (RI)	0.61 (ML)	0.36 (ML)	[0.34,0.38]	0.49 (ML)	[0.46,0.51]	
tri	4x	15	15	0.10 (ML)	0.18 (ML)	0.00 (MM)	0.06 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.10 (ML), I,0.10 (WE)	0.60 (LO), I,0.40 (RI)	0.70 (LO)	0.50 (RI), I,0.67 (ML)	0.39 (ML)	[0.38,0.41]	0.56 (ML)	[0.53,0.58]				
tri	4x	15	20	0.14 (ML)	0.18 (ML)	0.01 (MM)	0.01 (LO)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.20 (LO)	0.04 (ML)	0.50 (ML), I,0.33 (ML)	0.40 (ML)	0.54 (ML)	0.71 (ML)	0.46 (WE)	[0.42,0.51]	0.59 (ML)	[0.57,0.61]		
tri	4x	20	2	0.00 (VR)	0.02 (LO)	0.02 (VR)	0.02 (ML)	0.03 (PD)	0.02 (VR)	0.00 (WE)	0.17 (ML)	0.20 (WE)	0.18 (VR)	0.20 (PD)	0.33 (PD)	0.40 (LO)	0.48 (ML)	0.31 (VR)	[0.30,0.32]	0.43 (VR)	[0.40,0.45]	
tri	4x	20	3	0.13 (ML)	0.14 (ML)	0.00 (WE)	0.00 (RI)	0.01 (MM)	0.00 (RI)	0.04 (WE)	0.20 (WE)	0.14 (ML)	0.17 (ML)	0.30 (RI), I,0.20 (WE)	0.27 (ML)	0.52 (ML)	0.23 (ML)	[0.21,0.25]	0.30 (ML)	[0.27,0.33]		
tri	4x	20	4	0.14 (ML)	0.14 (LO)	0.01 (ML)	0.01 (LO)	0.00 (MM)	0.00 (MM)	0.05 (WE)	0.12 (MM)	0.11 (ML)	0.30 (RI)	0.30 (LO)	0.18 (MM)	0.31 (ML)	0.54 (ML)	0.28 (ML)	[0.26,0.30]	0.39 (ML)	[0.36,0.42]	
tri	4x	20	5	0.07 (WE)	0.03 (WE)	0.00 (WE)	0.03 (LO)	0.02 (ML)	0.00 (MM)	0.09 (MM)	0.20 (RI), I,0.40 (RI)	0.31 (ML)	0.20 (RI)	0.30 (LO), I,0.40 (RI)	0.57 (ML)	0.31 (ML)	[0.29,0.33]	0.41 (ML)	[0.37,0.44]			
tri	4x	20	10	0.11 (ML)	0.17 (WE)	0.01 (MM)	0.06 (ML)	0.00 (LO)	0.01 (MM)	0.07 (WE)	0.30 (WE)	0.20 (WE)	0.56 (ML)	0.40 (RI), I,0.42 (MM)	0.70 (LO)	0.64 (ML)	0.36 (ML)	[0.34,0.38]	0.53 (ML)	[0.50,0.55]		
tri	4x	20	15	0.11 (ML)	0.20 (ML)	0.00 (ML)	0.07 (ML)	0.01 (MM)	0.00 (LO)	0.09 (WE)	0.20 (RI), I,0.10 (WE)	0.59 (ML)	0.30 (LO)	0.41 (MM)	0.60 (LO)	0.69 (ML)	0.39 (WE)	[0.35,0.44]	0.56 (ML)	[0.54,0.59]		
tri	4x	20	20	0.12 (ML)	0.15 (LO)	0.01 (RI)	0.00 (WE)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.10 (RI), I,0.03 (MM)	0.50 (MM), I,0.56 (ML)	0.40 (WE)	0.60 (MM)	0.62 (ML)	0.73 (ML)	0.48 (WE)	[0.43,0.53]	0.60 (ML)	[0.58,0.62]		
tri	4x	50	2	0.00 (VR)	0.01 (VR)	0.02 (VR)	0.01 (ML)	0.02 (MM)	0.01 (PD)	0.00 (WE)	0.26 (VR)	0.29 (VR)	0.22 (VR)	0.21 (VR)	0.44 (PD)	0.48 (PD)	0.49 (ML)	0.48 (VR)	[0.47,0.49]	0.66 (VR)	[0.64,0.68]	
tri	4x	50	3	0.05 (LO)	0.17 (ML)	0.01 (MM)	0.01 (RI)	0.01 (MM)	0.02 (MM)	0.05 (WE)	0.10 (ML), I,0.10 (MM)	0.30 (RI), I,0.13 (ML)	0.30 (RI), I,0.20 (LO)	0.30 (ML), I,0.56 (ML)	0.25 (ML)	[0.23,0.27]	0.33 (ML)	[0.30,0.37]				
tri	4x	50	4	0.13 (ML)	0.06 (LO)	0.01 (MM)	0.01 (LO)	0.03 (MM)	0.01 (MM)	0.08 (WE)	0.10 (WE)	0.30 (RI), I,0.50 (RI)	0.40 (LO)	0.30 (LO), I,0.31 (ML)	0.59 (ML)	0.30 (ML)	[0.28,0.32]	0.42 (ML)	[0.39,0.45]			
tri	4x	50	5	0.07 (WE)	0.14 (WE)	0.00 (MM)	0.02 (LO)	0.00 (MM)	0.00 (MM)	0.09 (MM)	0.30 (LO)	0.40 (LO)	0.38 (ML)	0.40 (RI)	0.31 (ML)	0.44 (ML)	0.65 (ML)	0.33 (ML)	[0.31,0.35]	0.42 (ML)	[0.39,0.46]	
tri	4x	50	10	0.13 (ML)	0.18 (RI)	0.00 (ML)	0.06 (ML)	0.00 (ML)	0.00 (ML)	0.06 (WE)	0.00 (MM), I,0.10 (RI)	0.60 (RI)	0.40 (LO)	0.70 (RI)	0.80 (LO)	0.74 (ML)	0.37 (WE)	[0.31,0.42]	0.55 (ML)	[0.52,0.57]		
tri	4x	50	15	0.11 (ML)	0.18 (LO)	0.00 (MM)	0.08 (ML)	0.01 (RI)	0.00 (MM)	0.09 (WE)	0.00 (MM), I,0.10 (RI)	0.64 (ML)	0.20 (LO)	0.62 (ML)	0.65 (ML)	0.79 (ML)	0.43 (WE)	[0.39,0.48]	0.62 (LO)	[0.54,0.68]		
tri	4x	50	20	0.14 (ML)	0.20 (MM)	0.00 (WE)	0.03 (LO)	0.00 (LO)	0.00 (MM)	0.07 (WE)	0.10 (RI)	0.04 (MM), I,0.66 (ML)	0.20 (WE)	0.70 (RI), I,0.74 (ML)	0.82 (ML)	0.51 (WE)	[0.46,0.55]	0.62 (ML)	[0.60,0.64]			
tri	4x	100	2	0.00 (VR)	0.01 (VR)	0.00 (LO)	0.00 (VR)	0.00 (VR)	0.00 (MM)	0.01 (WE)	0.37 (VR)	0.32 (VR)	0.36 (VR)	0.33 (VR)	0.47 (PD)	0.70 (PD)	0.64 (FA)	0.57 (VR)	[0.56,0.58]	0.78 (VR)	[0.77,0.80]	
tri	4x	100	3	0.08 (LO)	0.18 (ML)	0.01 (WE)	0.04 (ML)	0.01 (LO)	0.02 (MM)	0.05 (WE)	0.20 (RI), I,0.20 (LO)	0.20 (LO), I,0.30 (RI)	0.30 (RI)	0.26 (ML)	0.57 (ML)	0.25 (ML)	[0.23,0.27]	0.36 (ML)	[0.32,0.39]			
tri	4x	100	4	0.14 (RI)	0.10 (LO)	0.00 (ML)	0.04 (LO)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.20 (RI)	0.20 (RI), I,0.30 (RI)	0.20 (RI)	0.20 (LO), I,0.31 (ML)	0.61 (ML)	0.29 (ML)	[0.28,0.31]	0.43 (ML)	[0.40,0.46]			
tri	4x	100	5	0.10 (WE)	0.12 (WE)	0.00 (RI)	0.03 (LO)	0.01 (MM)	0.01 (MM)	0.09 (MM)	0.20 (RI)	0.40 (RI), I,0.40 (WE)	0.10 (LO)	0.30 (RI), I,0.40 (RI)	0.65 (ML)	0.33 (ML)	[0.31,0.35]	0.46 (ML)	[0.43,0.49]			
tri	4x	100	10	0.13 (ML)	0.19 (ML)	0.00 (ML)	0.07 (ML)	0.00 (LO)	0.00 (ML)	0.06 (WE)	0.10 (RI), I,0.07 (MM)	0.63 (ML)	0.20 (LO)	0.60 (RI)	0.90 (RI)	0.77 (ML)	0.37 (WE)	[0.32,0.42]	0.55 (ML)	[0.52,0.57]		
tri	4x	100	15	0.11 (ML)	0.19 (LO)	0.00 (RI)	0.07 (LO)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.01 (ML)	0.04 (MM)	0.65 (ML)	0.20 (RI), I,0.70 (LO)	0.80 (LO)	0.81 (ML)	0.44 (WE)	[0.39,0.48]	0.62 (LO)	[0.54,0.68]		
tri	4x	100	20	0.13 (ML)	0.19 (ML)	0.00 (WE)	0.03 (LO)	0.02 (ML)	0.00 (ML)	0.08 (WE)	0.01 (MM), I,0.03 (MM)	0.72 (ML)	0.20 (LO)	0.77 (ML)	0.82 (ML)	0.84 (ML)	0.54 (WE)	[0.50,0.59]	0.64 (RI)	[0.57,0.69]		

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
tri	4x	500	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (WE)	0.69 (VR)	0.62 (VR)	0.82 (VR)	0.72 (VR)	0.73 (VR)	0.88 (PD)	0.88 (FA)	0.71 (VR)	[0.70, 0.71]	0.95 (VR)	[0.94, 0.95]		
tri	4x	500	3	0.08 (LO)	0.19 (ML)	0.01 (WE)	0.02 (RI)	0.01 (ML)	0.02 (MM)	0.05 (WE)	0.30 (LO)	0.23 (ML)	0.10 (LO)	0.30 (RI)	0.01 (ML)	0.23 (ML)	0.55 (ML)	0.25 (ML)	[0.23, 0.27]	0.36 (ML)	[0.33, 0.40]	
tri	4x	500	4	0.14 (WE)	0.11 (LO)	0.00 (ML)	0.02 (LO)	0.01 (WE)	0.01 (RI)	0.07 (WE)	0.10 (RI), LI, 0.40 (RI)	0.40 (RI)	0.02 (ML)	0.30 (WE)	0.40 (LO)	0.61 (ML)	0.29 (ML)	[0.27, 0.31]	0.43 (ML)	[0.40, 0.46]		
tri	4x	500	5	0.10 (WE)	0.11 (WE)	0.00 (WE)	0.05 (LO)	0.00 (ML)	0.00 (MM)	0.09 (MM)	0.10 (RI)	0.30 (RI), LI, 0.30 (RI)	0.10 (WE)	0.40 (RI)	0.40 (LO)	0.69 (ML)	0.31 (ML)	[0.30, 0.33]	0.45 (ML)	[0.42, 0.48]		
tri	4x	500	10	0.13 (ML)	0.19 (ML)	0.01 (ML)	0.07 (ML)	0.01 (RI)	0.01 (ML)	0.06 (WE)	0.00 (MM), MI, 0.06 (MM)	0.66 (ML)	0.06 (ML)	0.61 (ML)	0.90 (LO)	0.78 (ML)	0.39 (WE)	[0.34, 0.44]	0.54 (ML)	[0.52, 0.57]		
tri	4x	500	15	0.11 (ML)	0.18 (LO)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.00 (MM), MI, 0.10 (RI), LI, 0.86 (MM)	0.20 (LO), MI, 0.78 (MM)	0.20 (LO)	0.90 (LO)	0.82 (ML)	0.47 (WE)	[0.42, 0.51]	0.64 (LO)	[0.57, 0.70]			
tri	4x	500	20	0.13 (ML)	0.20 (MM)	0.00 (RI)	0.03 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	0.01 (ML)	0.02 (MM), MI, 0.86 (MM)	0.10 (RI), MI, 0.92 (ML)	0.86 (ML)	0.85 (ML)	0.54 (WE)	[0.50, 0.58]	0.64 (LO)	[0.58, 0.70]			
tri	4x	1000	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (MM)	0.01 (WE)	0.82 (VR)	0.86 (VR)	0.91 (VR)	0.92 (VR)	0.84 (VR)	0.98 (PD)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]	
tri	4x	1000	3	0.08 (LO)	0.17 (ML)	0.02 (WE)	0.01 (RI)	0.00 (WE)	0.02 (MM)	0.05 (WE)	0.30 (LO)	0.21 (ML)	0.10 (WE)	0.20 (WE)	0.00 (MM), MI, 0.23 (ML)	0.55 (ML)	0.26 (ML)	[0.24, 0.28]	0.37 (ML)	[0.33, 0.40]		
tri	4x	1000	4	0.14 (WE)	0.10 (LO)	0.00 (ML)	0.03 (LO)	0.02 (MM)	0.02 (MM)	0.07 (WE)	0.00 (MM), MI, 0.40 (RI)	0.40 (WE)	0.01 (ML)	0.30 (WE)	0.40 (LO)	0.61 (ML)	0.29 (ML)	[0.28, 0.31]	0.44 (ML)	[0.40, 0.47]		
tri	4x	1000	5	0.11 (WE)	0.11 (WE)	0.00 (ML)	0.05 (LO)	0.00 (MM)	0.00 (MM)	0.09 (MM)	0.00 (MM), MI, 0.20 (RI), LI, 0.40 (WE)	0.01 (ML)	0.40 (RI)	0.31 (ML)	0.69 (ML)	0.31 (ML)	[0.29, 0.33]	0.46 (ML)	[0.43, 0.49]			
tri	4x	1000	10	0.13 (ML)	0.19 (ML)	0.01 (ML)	0.07 (ML)	0.01 (RI)	0.01 (ML)	0.06 (WE)	0.00 (MM), MI, 0.06 (ML)	0.70 (RI)	0.20 (LO)	0.71 (ML)	0.80 (ML)	0.78 (ML)	0.38 (WE)	[0.33, 0.43]	0.55 (ML)	[0.52, 0.57]		
tri	4x	1000	15	0.11 (ML)	0.18 (LO)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.00 (MM), MI, 0.10 (RI), LI, 0.89 (MM)	0.20 (RI), LI, 0.80 (MM)	0.90 (RI), LI, 0.82 (ML)	0.47 (WE)	[0.42, 0.51]	0.64 (LO)	[0.57, 0.70]					
tri	4x	1000	20	0.13 (ML)	0.20 (MM)	0.00 (RI)	0.02 (LO)	0.01 (LO)	0.00 (MM)	0.07 (WE)	0.01 (ML)	0.02 (MM)	0.89 (MM)	0.10 (RI), LI, 0.94 (MM)	0.89 (MM), MI, 0.85 (ML)	0.55 (WE)	[0.51, 0.59]	0.65 (LO)	[0.58, 0.70]			
tri	6x	5	2	0.04 (ML)	0.03 (VR)	0.02 (LO)	0.00 (VR)	0.02 (PD)	0.01 (VR)	0.04 (MM)	0.10 (ML), RI, 0.13 (ML)	0.40 (LO)	0.28 (PD)	0.19 (PD)	0.25 (FA)	0.58 (MM)	0.11 (VR)	[0.10, 0.12]	0.15 (VR)	[0.13, 0.17]		
tri	6x	5	3	0.01 (LO)	0.12 (WE)	0.01 (MM)	0.03 (LO)	0.03 (MM)	0.00 (RI)	0.01 (WE)	0.22 (ML)	0.30 (WE)	0.10 (WE)	0.20 (RI)	0.11 (MM)	0.20 (ML)	0.44 (ML)	0.08 (ML)	[0.06, 0.09]	0.11 (ML)	[0.08, 0.13]	
tri	6x	5	4	0.06 (ML)	0.00 (RI)	0.01 (MM)	0.00 (LO)	0.03 (MM)	0.03 (LO)	0.02 (WE)	0.20 (LO)	0.16 (MM), MI, 0.13 (MM)	0.30 (WE)	0.10 (ML)	0.20 (RI)	0.46 (ML)	0.13 (ML)	[0.12, 0.15]	0.14 (ML)	[0.11, 0.17]		
tri	6x	5	5	0.14 (ML)	0.12 (LO)	0.02 (MM)	0.00 (ML)	0.01 (MM)	0.00 (WE)	0.09 (MM)	0.20 (WE)	0.20 (WE)	0.20 (RI)	0.40 (RI)	0.20 (RI), WI, 0.20 (RI), LI, 0.48 (ML)	0.15 (ML)	[0.13, 0.17]	0.22 (RI)	[0.14, 0.30]			
tri	6x	5	10	0.04 (LO)	0.19 (LO)	0.00 (MM)	0.05 (ML)	0.00 (LO)	0.03 (RI)	0.08 (RI)	0.20 (WE)	0.20 (LO)	0.24 (MM)	0.18 (MM)	0.23 (ML)	0.20 (LO)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.33 (ML)	[0.30, 0.36]	
tri	6x	5	15	0.16 (RI)	0.20 (ML)	0.01 (MM)	0.06 (ML)	0.02 (ML)	0.02 (MM)	0.08 (MM)	0.20 (LO)	0.14 (ML)	0.40 (WE)	0.50 (RI)	0.40 (LO)	0.40 (RI)	0.56 (ML)	0.26 (ML)	[0.24, 0.28]	0.37 (ML)	[0.34, 0.41]	
tri	6x	5	20	0.17 (ML)	0.20 (ML)	0.00 (ML)	0.04 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.15 (ML)	0.15 (ML)	0.30 (LO), WI, 0.30 (WE)	0.40 (RI), WI, 0.40 (RI), LI, 0.56 (ML)	0.29 (ML)	[0.27, 0.31]	0.40 (ML)	[0.36, 0.43]				
tri	6x	10	2	0.04 (VR)	0.04 (VR)	0.01 (VR)	0.01 (VR)	0.00 (WE)	0.03 (LO)	0.02 (RI)	0.17 (ML)	0.14 (VR)	0.27 (PD)	0.23 (PD)	0.33 (PD)	0.30 (LO)	0.47 (MM)	0.18 (VR)	[0.16, 0.19]	0.27 (VR)	[0.24, 0.29]	
tri	6x	10	3	0.11 (LO)	0.13 (RI)	0.02 (MM)	0.01 (ML)	0.01 (MM)	0.02 (RI)	0.01 (WE)	0.18 (ML)	0.30 (WE)	0.20 (LO), WI, 0.30 (WE)	0.20 (LO)	0.30 (LO)	0.47 (ML)	0.14 (ML)	[0.12, 0.16]	0.19 (ML)	[0.16, 0.22]		
tri	6x	10	4	0.06 (RI)	0.03 (WE)	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.02 (MM)	0.02 (WE)	0.20 (WE)	0.20 (LO)	0.20 (RI), WI, 0.40 (LO)	0.30 (RI), WI, 0.30 (LO)	0.50 (ML)	0.16 (ML)	[0.14, 0.18]	0.19 (ML)	[0.16, 0.23]			
tri	6x	10	5	0.15 (ML)	0.18 (ML)	0.00 (MM)	0.02 (ML)	0.03 (ML)	0.01 (LO)	0.07 (WE)	0.16 (MM), MI, 0.22 (ML)	0.20 (WE)	0.30 (RI)	0.20 (RI), LI, 0.20 (RI)	0.50 (ML)	0.19 (ML)	[0.17, 0.21]	0.24 (ML)	[0.21, 0.28]			
tri	6x	10	10	0.17 (RI)	0.18 (LO)	0.01 (ML)	0.04 (ML)	0.00 (MM)	0.01 (RI)	0.10 (MM)	0.15 (ML)	0.20 (RI)	0.30 (WE)	0.14 (MM)	0.40 (WE)	0.50 (RI)	0.56 (ML)	0.27 (ML)	[0.25, 0.29]	0.38 (ML)	[0.34, 0.41]	
tri	6x	10	15	0.18 (ML)	0.20 (LO)	0.00 (MM)	0.08 (ML)	0.00 (ML)	0.02 (ML)	0.09 (MM)	0.17 (ML)	0.10 (LO), WI, 0.40 (WE)	0.30 (WE)	0.29 (ML)	0.38 (ML)	0.60 (ML)	0.31 (ML)	[0.29, 0.33]	0.39 (ML)	[0.36, 0.43]		
tri	6x	10	20	0.16 (RI)	0.22 (ML)	0.00 (MM)	0.07 (ML)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.10 (RI), LI, 0.10 (WE)	0.32 (MM)	0.20 (LO)	0.37 (ML)	0.50 (RI)	0.62 (ML)	0.31 (ML)	[0.29, 0.32]	0.43 (ML)	[0.40, 0.46]		
tri	6x	15	2	0.02 (VR)	0.00 (VR)	0.03 (VR)	0.05 (VR)	0.02 (VR)	0.01 (LO)	0.04 (MM)	0.20 (WE)	0.18 (ML)	0.33 (PD)	0.34 (PD)	0.35 (PD)	0.28 (FA)	0.45 (ML)	0.24 (VR)	[0.22, 0.25]	0.34 (VR)	[0.31, 0.36]	
tri	6x	15	3	0.14 (ML)	0.19 (ML)	0.01 (LO)	0.01 (WE)	0.00 (RI)	0.01 (MM)	0.01 (WE)	0.22 (ML)	0.23 (ML)	0.20 (RI)	0.20 (LO), WI, 0.20 (LO), WI, 0.24 (ML)	0.48 (ML)	0.16 (ML)	[0.14, 0.18]	0.20 (ML)	[0.17, 0.23]			
tri	6x	15	4	0.09 (RI)	0.00 (WE)	0.00 (RI)	0.03 (ML)	0.00 (MM)	0.04 (LO)	0.01 (WE)	0.20 (RI), WI, 0.20 (LO)	0.30 (LO)	0.20 (LO)	0.30 (RI)	0.40 (LO)	0.51 (ML)	0.22 (ML)	[0.20, 0.24]	0.23 (ML)	[0.20, 0.27]		
tri	6x	15	5	0.18 (ML)	0.18 (ML)	0.00 (MM)	0.05 (ML)	0.00 (MM)	0.01 (WE)	0.08 (LO)	0.30 (WE)	0.20 (RI), LI, 0.30 (LO)	0.13 (MM)	0.25 (ML)	0.20 (ML)	0.53 (ML)	0.22 (ML)	[0.20, 0.24]	0.32 (RI)	[0.22, 0.41]		
tri	6x	15	10	0.17 (LO)	0.19 (LO)	0.00 (LO)	0.05 (RI)	0.00 (MM)	0.01 (LO)	0.09 (LO)	0.15 (ML)	0.20 (RI)	0.50 (RI), LI, 0.18 (ML)	0.50 (LO)	0.33 (ML)	0.58 (ML)	0.29 (ML)	[0.27, 0.31]	0.38 (ML)	[0.34, 0.41]		
tri	6x	15	15	0.18 (ML)	0.21 (ML)	0.02 (MM)	0.08 (ML)	0.00 (MM)	0.01 (ML)	0.09 (WE)	0.12 (ML)	0.10 (LO), WI, 0.40 (RI)	0.30 (LO)	0.27 (ML)	0.43 (ML)	0.63 (ML)	0.30 (WE)	[0.25, 0.35]	0.40 (ML)	[0.37, 0.43]		
tri	6x	15	20	0.17 (ML)	0.22 (ML)	0.00 (ML)	0.06 (ML)	0.00 (ML)	0.01 (MM)	0.08 (WE)	0.14 (MM)	0.10 (MM), MI, 0.40 (RI), LI, 0.22 (ML)	0.40 (LO)	0.40 (LO)	0.65 (ML)	0.32 (ML)	0.47 (ML)	[0.44, 0.50]				

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
tri	6x	20	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.05 (MM)	0.23 (VR)	0.24 (VR)	0.32 (PD)	0.25 (PD)	0.48 (PD)	0.32 (FA)	0.46 (ML)	0.29 (VR)	[0.28, 0.30]	0.41 (VR)	[0.38, 0.43]	
tri	6x	20	3	0.12 (ML)	0.19 (ML)	0.00 (RI)	0.01 (ML)	0.02 (MM)	0.02 (MM)	0.01 (WE)	0.24 (MM)	0.19 (ML)	0.50 (WE)	0.20 (LO)	0.20 (LO)	0.29 (ML)	0.47 (ML)	0.17 (ML)	[0.15, 0.19]	0.24 (ML)	[0.21, 0.27]	
tri	6x	20	4	0.08 (RI)	0.00 (WE)	0.00 (MM)	0.01 (LO)	0.03 (ML)	0.04 (MM)	0.01 (WE)	0.24 (ML)	0.16 (ML)	0.20 (RI), L0.40 (LO)	0.20 (LO)	0.20 (RI)	0.27 (ML)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.22 (ML)	[0.19, 0.26]	
tri	6x	20	5	0.16 (LO)	0.17 (LO)	0.00 (LO)	0.03 (ML)	0.02 (MM)	0.00 (WE)	0.07 (WE)	0.25 (ML)	0.12 (ML)	0.20 (WE)	0.20 (RI), L0.20 (RI)	0.20 (LO)	0.54 (ML)	0.23 (ML)	[0.21, 0.25]	0.30 (ML)	[0.26, 0.33]		
tri	6x	20	10	0.18 (ML)	0.22 (LO)	0.01 (MM)	0.03 (RI)	0.00 (MM)	0.01 (RI)	0.10 (MM)	0.22 (ML)	0.11 (MM)	0.40 (RI)	0.20 (RI), W0.30 (RI)	0.25 (ML)	0.59 (ML)	0.29 (ML)	[0.27, 0.31]	0.43 (ML)	[0.40, 0.46]		
tri	6x	20	15	0.19 (ML)	0.20 (WE)	0.00 (MM)	0.10 (ML)	0.00 (ML)	0.01 (ML)	0.09 (MM)	0.13 (ML)	0.10 (RI)	0.29 (ML)	0.30 (LO)	0.40 (LO)	0.41 (ML)	0.65 (ML)	0.35 (WE)	[0.30, 0.40]	0.42 (ML)	[0.39, 0.45]	
tri	6x	20	20	0.16 (WE)	0.22 (LO)	0.00 (ML)	0.06 (WE)	0.01 (ML)	0.01 (MM)	0.09 (WE)	0.10 (MM), M0.10 (LO)	0.60 (RI)	0.50 (RI)	0.50 (LO)	0.50 (LO)	0.67 (ML)	0.32 (WE)	[0.27, 0.36]	0.45 (ML)	[0.42, 0.48]		
tri	6x	50	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (ML)	0.01 (VR)	0.00 (VR)	0.05 (MM)	0.25 (VR)	0.27 (VR)	0.33 (VR)	0.27 (PD)	0.64 (PD)	0.36 (FA)	0.59 (FA)	0.48 (VR)	[0.46, 0.49]	0.64 (VR)	[0.62, 0.66]	
tri	6x	50	3	0.14 (ML)	0.10 (RI)	0.01 (MM)	0.02 (ML)	0.02 (MM)	0.02 (MM)	0.01 (WE)	0.30 (RI)	0.20 (LO), W0.20 (LO)	0.20 (RI)	0.16 (ML)	0.40 (LO)	0.50 (ML)	0.22 (ML)	[0.20, 0.24]	0.27 (ML)	[0.24, 0.30]		
tri	6x	50	4	0.11 (RI)	0.02 (RI)	0.00 (RI)	0.05 (LO)	0.01 (MM)	0.04 (MM)	0.01 (WE)	0.25 (ML)	0.11 (MM)	0.40 (LO)	0.30 (LO)	0.30 (RI)	0.40 (RI)	0.53 (ML)	0.26 (ML)	[0.24, 0.28]	0.26 (ML)	[0.22, 0.30]	
tri	6x	50	5	0.16 (ML)	0.20 (ML)	0.01 (MM)	0.01 (RI)	0.01 (MM)	0.01 (WE)	0.06 (WE)	0.21 (MM)	0.13 (ML)	0.20 (LO)	0.30 (RI)	0.20 (LO)	0.27 (ML)	0.56 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.30, 0.37]	
tri	6x	50	10	0.18 (ML)	0.20 (LO)	0.00 (ML)	0.06 (ML)	0.00 (MM)	0.01 (LO)	0.10 (MM)	0.24 (MM), M0.20 (RI)	0.40 (RI)	0.16 (ML)	0.26 (ML)	0.34 (ML)	0.61 (ML)	0.29 (ML)	[0.28, 0.31]	0.42 (ML)	[0.38, 0.45]		
tri	6x	50	15	0.18 (ML)	0.22 (ML)	0.00 (MM)	0.09 (LO)	0.00 (ML)	0.01 (ML)	0.09 (MM)	0.16 (MM), M0.10 (RI), L0.30 (LO)	0.40 (LO)	0.40 (RI), L0.49 (ML)	0.68 (ML)	0.34 (WE)	[0.29, 0.39]	0.42 (ML)	[0.40, 0.45]				
tri	6x	50	20	0.18 (ML)	0.23 (ML)	0.00 (ML)	0.07 (WE)	0.01 (ML)	0.00 (MM)	0.08 (WE)	0.11 (MM)	0.04 (MM), M0.50 (RI), W0.30 (RI)	0.48 (ML)	0.59 (ML)	0.70 (ML)	0.35 (WE)	[0.30, 0.40]	0.46 (ML)	[0.43, 0.48]			
tri	6x	100	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.05 (MM)	0.41 (VR)	0.36 (VR)	0.41 (VR)	0.41 (VR)	0.66 (PD)	0.37 (FA)	0.74 (FA)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.76, 0.79]	
tri	6x	100	3	0.15 (ML)	0.19 (ML)	0.02 (MM)	0.03 (ML)	0.03 (MM)	0.00 (MM)	0.01 (WE)	0.15 (MM), M0.10 (ML), W0.30 (LO)	0.40 (LO)	0.20 (RI), L0.30 (ML)	0.51 (ML)	0.22 (ML)	[0.20, 0.24]	0.30 (ML)	[0.27, 0.34]				
tri	6x	100	4	0.11 (RI)	0.00 (WE)	0.00 (RI)	0.06 (LO)	0.00 (WE)	0.04 (ML)	0.01 (WE)	0.22 (ML)	0.20 (LO)	0.40 (LO)	0.23 (MM)	0.40 (RI)	0.32 (ML)	0.54 (ML)	0.27 (ML)	[0.25, 0.29]	0.27 (ML)	[0.23, 0.30]	
tri	6x	100	5	0.16 (MM)	0.20 (LO)	0.00 (MM)	0.02 (LO)	0.00 (MM)	0.01 (WE)	0.08 (WE)	0.21 (ML)	0.13 (ML)	0.21 (MM)	0.30 (WE)	0.20 (ML)	0.21 (ML)	0.57 (ML)	0.25 (ML)	[0.23, 0.26]	0.36 (ML)	[0.33, 0.39]	
tri	6x	100	10	0.18 (ML)	0.18 (LO)	0.00 (ML)	0.06 (ML)	0.00 (ML)	0.01 (MM)	0.10 (MM)	0.25 (ML)	0.10 (RI), W0.20 (RI), L0.21 (MM)	0.19 (ML)	0.26 (ML)	0.62 (ML)	0.29 (ML)	[0.28, 0.31]	0.42 (LO)	[0.32, 0.50]			
tri	6x	100	15	0.19 (ML)	0.22 (ML)	0.00 (MM)	0.10 (ML)	0.01 (ML)	0.00 (ML)	0.09 (MM)	0.17 (MM)	0.10 (RI), W0.24 (ML)	0.30 (RI), W0.30 (RI), L0.50 (RI)	0.67 (ML)	0.36 (WE)	[0.31, 0.41]	0.42 (ML)	[0.39, 0.45]				
tri	6x	100	20	0.18 (RI)	0.23 (ML)	0.00 (ML)	0.08 (ML)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.14 (MM)	0.04 (MM)	0.40 (RI)	0.18 (MM), M0.41 (ML)	0.50 (RI)	0.70 (ML)	0.34 (WE)	[0.29, 0.39]	0.45 (ML)	[0.43, 0.48]		
tri	6x	500	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.06 (MM)	0.74 (VR)	0.72 (VR)	0.81 (VR)	0.69 (VR)	0.73 (VR)	0.70 (VR)	0.90 (FA)	0.70 (VR)	[0.70, 0.71]	0.94 (VR)	[0.94, 0.95]	
tri	6x	500	3	0.15 (MM)	0.19 (ML)	0.02 (WE)	0.04 (ML)	0.01 (MM)	0.00 (MM)	0.00 (WE)	0.20 (RI), W0.20 (RI), W0.30 (LO)	0.35 (MM)	0.30 (LO)	0.50 (LO)	0.53 (ML)	0.24 (ML)	[0.22, 0.26]	0.31 (ML)	[0.28, 0.35]			
tri	6x	500	4	0.11 (RI)	0.03 (WE)	0.00 (RI)	0.07 (ML)	0.02 (MM)	0.03 (ML)	0.01 (WE)	0.22 (ML)	0.20 (RI)	0.40 (LO)	0.29 (MM)	0.20 (WE)	0.30 (ML)	0.54 (ML)	0.28 (ML)	[0.26, 0.30]	0.29 (ML)	[0.25, 0.32]	
tri	6x	500	5	0.16 (ML)	0.20 (LO)	0.01 (MM)	0.01 (RI)	0.00 (WE)	0.01 (RI)	0.08 (WE)	0.18 (ML)	0.10 (RI), L0.20 (RI)	0.24 (MM)	0.26 (ML)	0.58 (ML)	0.25 (ML)	[0.23, 0.27]	0.36 (ML)	[0.33, 0.39]			
tri	6x	500	10	0.18 (RI)	0.20 (LO)	0.00 (ML)	0.06 (RI)	0.00 (MM)	0.01 (LO)	0.10 (MM)	0.24 (MM), M0.10 (RI), L0.20 (LO), W0.22 (ML)	0.20 (LO), W0.20 (LO)	0.62 (ML)	0.29 (ML)	[0.28, 0.31]	0.42 (ML)	[0.39, 0.45]					
tri	6x	500	15	0.19 (ML)	0.22 (ML)	0.01 (MM)	0.10 (LO)	0.01 (ML)	0.01 (ML)	0.09 (MM)	0.17 (MM), M0.10 (WE)	0.25 (ML)	0.30 (WE)	0.30 (LO)	0.30 (ML)	0.66 (ML)	0.37 (WE)	[0.32, 0.42]	0.42 (ML)	[0.39, 0.45]		
tri	6x	500	20	0.18 (WE)	0.23 (ML)	0.00 (ML)	0.07 (WE)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.15 (MM)	0.02 (MM)	0.46 (ML)	0.13 (ML)	0.43 (ML)	0.50 (ML)	0.69 (ML)	0.36 (WE)	[0.31, 0.41]	0.45 (ML)	[0.42, 0.48]	
tri	6x	1000	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.06 (MM)	0.88 (VR)	0.85 (VR)	0.87 (VR)	0.85 (VR)	0.86 (VR)	0.96 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.73]	0.97 (VR)	[0.97, 0.97]	
tri	6x	1000	3	0.15 (MM)	0.19 (ML)	0.03 (MM)	0.03 (RI)	0.02 (MM)	0.00 (MM)	0.01 (WE)	0.10 (MM), R0.20 (WE)	0.22 (MM)	0.32 (MM)	0.23 (ML)	0.34 (ML)	0.54 (ML)	0.24 (ML)	[0.22, 0.26]	0.31 (ML)	[0.28, 0.35]		
tri	6x	1000	4	0.09 (RI)	0.02 (WE)	0.00 (MM)	0.07 (LO)	0.02 (ML)	0.03 (ML)	0.01 (WE)	0.23 (ML)	0.10 (ML), R0.40 (LO)	0.34 (MM)	0.20 (LO), W0.29 (ML)	0.54 (ML)	0.28 (ML)	[0.26, 0.30]	0.29 (ML)	[0.26, 0.33]			
tri	6x	1000	5	0.16 (ML)	0.20 (ML)	0.00 (MM)	0.02 (RI)	0.01 (MM)	0.00 (RI)	0.08 (WE)	0.25 (ML)	0.10 (RI), L0.15 (ML)	0.30 (WE)	0.26 (ML)	0.27 (ML)	0.58 (ML)	0.25 (ML)	[0.23, 0.27]	0.36 (ML)	[0.33, 0.39]		
tri	6x	1000	10	0.18 (RI)	0.19 (LO)	0.01 (ML)	0.07 (ML)	0.00 (ML)	0.00 (LO)	0.10 (MM)	0.24 (MM)	0.10 (RI), L0.20 (WE)	0.23 (MM)	0.20 (WE)	0.17 (ML)	0.62 (ML)	0.30 (WE)	[0.25, 0.35]	0.42 (ML)	[0.39, 0.45]		
tri	6x	1000	15	0.19 (ML)	0.22 (ML)	0.01 (MM)	0.09 (LO)	0.00 (ML)	0.01 (ML)	0.09 (MM)	0.17 (MM), M0.10 (WE)	0.30 (RI)	0.30 (WE)	0.40 (LO)	0.40 (LO)	0.66 (ML)	0.38 (WE)	[0.33, 0.42]	0.42 (ML)	[0.39, 0.45]		
tri	6x	1000	20	0.18 (ML)	0.23 (ML)	0.00 (ML)	0.07 (ML)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.15 (MM)	0.02 (MM)	0.40 (RI), W0.20 (RI)	0.48 (ML)	0.49 (ML)	0.69 (ML)	0.35 (WE)	[0.30, 0.40]	0.45 (ML)	[0.42, 0.48]		

Population			RMSE								IC								CCC							
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC					
tri	8x	5	2	0.01 (ML)	0.01 (VR)	0.03 (PD)	0.04 (PD)	0.08 (VR)	0.04 (VR)	0.01 (MM)	0.10 (RI)	0.09 (VR)	0.54 (PD)	0.51 (PD)	0.21 (PD,FI0.22 (MM,F)0.64 (MM))	0.11 (VR)	[0.10,0.12]	0.16 (VR)	[0.14,0.18]							
tri	8x	5	3	0.29 (ML)	0.12 (ML)	0.04 (LO)	0.00 (LO)	0.03 (LO)	0.03 (LO)	0.06 (WE)	0.20 (ML)	0.30 (ML,W)0.10 (ML,R)0.30 (RI)	0.20 (RI,LI0.13 (MM))	0.40 (ML)	0.04 (LO)	[0.01,0.07]	0.03 (MM)	[0.01,0.05]								
tri	8x	5	4	0.06 (WE)	0.08 (WE)	0.02 (ML)	0.04 (ML)	0.01 (RI)	0.04 (MM)	0.11 (LO)	0.12 (MM)	0.40 (RI)	0.20 (ML,R)0.20 (ML)	0.20 (ML,LI0.20 (LO))	0.40 (ML)	0.03 (MM)	[0.02,0.04]	0.06 (LO)	[−0.02,0.14]							
tri	8x	5	5	0.28 (ML)	0.13 (ML)	0.01 (ML)	0.12 (ML)	0.01 (MM)	0.03 (MM)	0.10 (LO)	0.14 (MM)	0.20 (ML)	0.20 (ML)	0.30 (RI)	0.20 (ML)	0.30 (ML,W)0.44 (ML))	0.03 (ML)	[−0.03,0.09]	0.09 (RI)	[0.02,0.17]						
tri	8x	5	10	0.33 (ML)	0.27 (ML)	0.11 (ML)	0.15 (MM)	0.02 (ML)	0.01 (MM)	0.06 (WE)	0.10 (ML,R)0.10 (ML,W)0.40 (ML)	0.30 (RI)	0.20 (MM,W)0.30 (WE)	0.50 (ML)	0.18 (ML)	[0.11,0.24]	0.16 (RI)	[0.07,0.26]								
tri	8x	5	15	0.25 (ML)	0.28 (MM)	0.10 (ML)	0.07 (ML)	0.03 (ML)	0.00 (ML)	0.06 (WE)	0.20 (ML)	0.05 (MM)	0.30 (ML)	0.15 (MM)	0.30 (RI)	0.40 (LO)	0.54 (ML)	0.16 (ML)	[0.09,0.22]	0.17 (ML)	[0.05,0.29]					
tri	8x	5	20	0.32 (ML)	0.24 (ML)	0.12 (ML)	0.13 (MM)	0.03 (ML)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.20 (ML)	0.30 (LO)	0.20 (MM)	0.40 (ML)	0.30 (LO,W)0.55 (ML))	0.15 (MM)	[0.13,0.17]	0.20 (MM)	[0.17,0.24]						
tri	8x	10	2	0.05 (RI)	0.05 (VR)	0.00 (VR)	0.04 (PD)	0.02 (VR)	0.01 (VR)	0.02 (MM)	0.11 (VR)	0.17 (VR)	0.45 (PD)	0.47 (PD)	0.25 (PD)	0.36 (FA)	0.56 (MM)	0.19 (VR)	[0.18,0.20]	0.26 (VR)	[0.23,0.28]					
tri	8x	10	3	0.30 (ML)	0.18 (ML)	0.02 (RI)	0.04 (RI)	0.03 (ML)	0.02 (RI)	0.05 (WE)	0.10 (RI)	0.20 (ML)	0.40 (LO)	0.30 (LO)	0.20 (RI)	0.30 (LO)	0.42 (ML)	0.06 (ML)	[0.01,0.10]	0.06 (MM)	[0.04,0.08]					
tri	8x	10	4	0.20 (WE)	0.17 (ML)	0.02 (WE)	0.07 (ML)	0.02 (MM)	0.03 (WE)	0.10 (LO)	0.17 (MM)	0.20 (WE)	0.20 (WE)	0.10 (ML,L)0.20 (RI,LI0.30 (LO))	0.41 (ML)	0.06 (ML)	[0.01,0.11]	0.05 (MM)	[0.03,0.08]							
tri	8x	10	5	0.29 (MM)	0.26 (ML)	0.06 (ML)	0.05 (ML)	0.01 (ML)	0.00 (MM)	0.09 (LO)	0.10 (ML)	0.30 (ML)	0.13 (MM)	0.50 (RI)	0.20 (ML,R)0.30 (RI)	0.46 (ML)	0.05 (MM)	[0.04,0.06]	0.11 (ML)	[0.00,0.22]						
tri	8x	10	10	0.32 (MM)	0.29 (ML)	0.14 (ML)	0.14 (MM)	0.00 (ML)	0.01 (MM)	0.06 (WE)	0.05 (MM)	0.10 (RI)	0.30 (ML)	0.20 (MM)	0.30 (RI)	0.40 (LO)	0.52 (ML)	0.19 (ML)	[0.13,0.26]	0.18 (MM)	[0.14,0.21]					
tri	8x	10	15	0.30 (ML)	0.32 (MM)	0.09 (ML)	0.14 (MM)	0.04 (MM)	0.00 (ML)	0.06 (WE)	0.10 (RI)	0.05 (MM)	0.30 (ML)	0.17 (MM)	0.30 (LO)	0.30 (WE)	0.58 (ML)	0.18 (ML)	[0.11,0.24]	0.24 (LO)	[0.14,0.33]					
tri	8x	10	20	0.30 (MM)	0.24 (ML)	0.11 (ML)	0.14 (MM)	0.02 (ML)	0.00 (ML)	0.08 (WE)	0.03 (MM)	0.20 (ML)	0.12 (MM)	0.17 (MM)	0.30 (RI)	0.50 (RI)	0.58 (ML)	0.20 (MM)	[0.18,0.22]	0.23 (MM)	[0.20,0.27]					
tri	8x	15	2	0.04 (VR)	0.06 (VR)	0.01 (VR)	0.04 (VR)	0.00 (VR)	0.04 (VR)	0.00 (WE)	0.18 (VR)	0.20 (WE)	0.59 (PD)	0.53 (PD)	0.30 (LO)	0.40 (LO)	0.54 (MM)	0.23 (VR)	[0.22,0.24]	0.35 (VR)	[0.32,0.37]					
tri	8x	15	3	0.29 (ML)	0.19 (ML)	0.03 (WE)	0.01 (LO)	0.01 (WE)	0.00 (LO)	0.06 (WE)	0.02 (MM)	0.20 (ML)	0.30 (LO)	0.20 (ML,R)0.20 (WE)	0.13 (MM)	0.44 (ML)	0.08 (ML)	[0.03,0.13]	0.07 (MM)	[0.05,0.10]						
tri	8x	15	4	0.02 (WE)	0.23 (ML)	0.00 (WE)	0.05 (ML)	0.02 (RI)	0.01 (LO)	0.10 (WE)	0.30 (WE)	0.30 (ML)	0.20 (LO,W)0.12 (MM))	0.20 (ML,W)0.30 (ML)	0.44 (ML)	0.06 (ML)	[0.00,0.12]	0.10 (LO)	[0.01,0.18]							
tri	8x	15	5	0.26 (ML)	0.30 (ML)	0.00 (ML)	0.09 (MM)	0.03 (ML)	0.00 (RI)	0.09 (LO)	0.10 (ML,R)0.20 (ML)	0.12 (MM)	0.10 (MM,W)0.30 (RI)	0.30 (RI)	0.47 (ML)	0.08 (ML)	[0.01,0.14]	0.09 (LO)	[0.00,0.18]							
tri	8x	15	10	0.33 (MM)	0.28 (ML)	0.14 (MM)	0.14 (ML)	0.02 (MM)	0.00 (RI)	0.07 (LO)	0.08 (MM)	0.10 (ML)	0.17 (MM)	0.20 (RI,LI0.30 (LO,W)0.40 (ML,R)0.55 (ML))	0.20 (ML)	[0.14,0.27]	0.22 (MM)	[0.18,0.25]								
tri	8x	15	15	0.30 (MM)	0.33 (MM)	0.12 (ML)	0.13 (ML)	0.05 (ML)	0.03 (ML)	0.07 (WE)	0.10 (ML,R)0.04 (MM)	0.20 (ML)	0.20 (LO)	0.26 (MM)	0.30 (ML,LI0.62 (ML))	0.18 (ML)	[0.12,0.24]	0.24 (ML)	[0.13,0.35]							
tri	8x	15	20	0.32 (MM)	0.29 (ML)	0.15 (ML)	0.15 (MM)	0.04 (MM)	0.01 (ML)	0.07 (WE)	0.02 (MM)	0.10 (WE)	0.19 (MM)	0.14 (MM)	0.30 (MM)	0.50 (RI)	0.60 (ML)	0.19 (MM)	[0.17,0.21]	0.25 (MM)	[0.21,0.28]					
tri	8x	20	2	0.03 (WE)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.04 (VR)	0.01 (VR)	0.03 (MM)	0.18 (VR)	0.10 (VR)	0.58 (PD)	0.55 (PD)	0.33 (PD)	0.30 (FA)	0.53 (MM)	0.29 (VR)	[0.27,0.30]	0.44 (VR)	[0.42,0.46]					
tri	8x	20	3	0.33 (ML)	0.09 (ML)	0.04 (ML)	0.01 (LO)	0.03 (MM)	0.01 (MM)	0.04 (WE)	0.02 (MM)	0.20 (ML,R)0.30 (ML)	0.20 (RI)	0.30 (LO)	0.30 (ML)	0.41 (ML)	0.08 (ML)	[0.03,0.13]	0.08 (MM)	[0.05,0.11]						
tri	8x	20	4	0.20 (WE)	0.22 (ML)	0.02 (WE)	0.07 (ML)	0.01 (MM)	0.01 (WE)	0.06 (WE)	0.10 (RI,LI0.20 (ML))	0.20 (WE)	0.20 (RI)	0.20 (ML,LI0.30 (RI,LI0.45 (ML))	0.06 (ML)	[0.01,0.12]	0.11 (ML)	[0.00,0.22]								
tri	8x	20	5	0.29 (ML)	0.29 (ML)	0.09 (ML)	0.13 (ML)	0.04 (ML)	0.01 (LO)	0.09 (LO)	0.10 (MM,W)0.07 (MM)	0.30 (RI)	0.30 (ML)	0.20 (ML,LI0.20 (LO))	0.49 (ML)	0.08 (MM)	[0.07,0.10]	0.21 (ML)	[0.09,0.32]							
tri	8x	20	10	0.32 (ML)	0.24 (ML)	0.12 (ML)	0.14 (MM)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.02 (MM)	0.10 (RI)	0.30 (RI)	0.22 (MM)	0.30 (MM,W)0.50 (ML,R)0.56 (ML))	0.23 (ML)	[0.16,0.29]	0.23 (MM)	[0.19,0.26]							
tri	8x	20	15	0.28 (ML)	0.31 (MM)	0.08 (ML)	0.10 (ML)	0.02 (ML)	0.01 (ML)	0.08 (WE)	0.02 (MM)	0.04 (MM)	0.20 (ML,R)0.20 (MM))	0.30 (WE)	0.40 (WE)	0.61 (ML)	0.19 (ML)	[0.13,0.25]	0.24 (MM)	[0.21,0.28]						
tri	8x	20	20	0.32 (MM)	0.27 (ML)	0.15 (MM)	0.15 (MM)	0.03 (MM)	0.00 (MM)	0.09 (WE)	0.03 (MM)	0.10 (LO)	0.19 (MM)	0.23 (MM)	0.30 (ML,R)0.30 (RI))	0.60 (ML)	0.22 (MM)	[0.20,0.23]	0.26 (MM)	[0.22,0.29]						
tri	8x	50	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.03 (VR)	0.03 (VR)	0.03 (MM)	0.28 (VR)	0.28 (VR)	0.66 (PD)	0.60 (PD)	0.21 (VR,PF0.44 (FA))	0.68 (FA)	0.44 (VR)	[0.43,0.46]	0.67 (VR)	[0.65,0.69]						
tri	8x	50	3	0.36 (ML)	0.15 (ML)	0.03 (ML)	0.04 (LO)	0.02 (WE)	0.02 (MM)	0.07 (LO)	0.10 (ML,R)0.10 (ML,R)0.10 (LO,W)0.20 (WE)	0.20 (RI)	0.40 (RI)	0.45 (ML)	0.08 (ML)	[0.03,0.13]	0.10 (MM)	[0.07,0.12]								
tri	8x	50	4	0.22 (ML)	0.22 (ML)	0.05 (WE)	0.06 (ML)	0.02 (LO)	0.01 (RI)	0.08 (WE)	0.20 (RI)	0.20 (ML)	0.20 (ML,LI0.19 (MM))	0.20 (RI,LI0.20 (RI,LI0.46 (ML))	0.13 (ML)	[0.07,0.19]	0.10 (MM)	[0.07,0.13]								
tri	8x	50	5	0.29 (MM)	0.24 (ML)	0.09 (ML)	0.12 (MM)	0.01 (ML)	0.00 (RI)	0.09 (LO)	0.07 (MM)	0.30 (ML)	0.20 (RI)	0.14 (MM)	0.30 (RI)	0.40 (LO)	0.48 (ML)	0.09 (MM)	[0.07,0.10]	0.15 (LO)	[0.05,0.24]					
tri	8x	50	10	0.32 (MM)	0.29 (MM)	0.13 (MM)	0.14 (MM)	0.02 (MM)	0.01 (WE)	0.07 (WE)	0.01 (MM)	0.06 (MM)	0.20 (WE)	0.21 (MM)	0.36 (MM)	0.38 (MM)	0.58 (ML)	0.25 (ML)	[0.19,0.31]	0.25 (MM)	[0.22,0.28]					
tri	8x	50	15	0.30 (ML)	0.31 (MM)	0.11 (ML)	0.14 (ML)	0.06 (MM)	0.00 (ML)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.20 (MM)	0.15 (MM)	0.20 (LO)	0.50 (WE)	0.64 (ML)	0.19 (MM)	[0.17,0.21]	0.26 (MM)	[0.23,0.30]					
tri	8x	50	20	0.32 (MM)	0.27 (ML)	0.15 (MM)	0.15 (MM)	0.03 (MM)	0.01 (ML)	0.08 (WE)	0.02 (MM)	0.10 (ML,W)0.21 (MM))	0.22 (MM)	0.30 (ML,RI0.40 (ML))	0.61 (ML)	0.22 (MM)	[0.20,0.24]	0.28 (MM)	[0.25,0.32]							

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
tri	8x	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (LO)	0.00 (RI)	0.33 (VR)	0.45 (VR)	0.66 (PD)	0.63 (PD)	0.33 (VR)	0.34 (VR)	0.80 (FA)	0.55 (VR)	[0.54, 0.56]	0.78 (VR)	[0.76, 0.79]	
tri	8x	100	3	0.36 (ML)	0.20 (ML)	0.02 (ML)	0.03 (LO)	0.03 (WE)	0.00 (LO)	0.07 (LO)	0.10 (WE)	0.20 (RI)	0.20 (ML)	0.20 (LO)	0.11 (MM)	0.40 (LO)	0.43 (ML)	0.09 (ML)	[0.03, 0.14]	0.12 (ML)	[0.02, 0.22]	
tri	8x	100	4	0.15 (WE)	0.23 (ML)	0.06 (WE)	0.06 (ML)	0.00 (RI)	0.02 (RI)	0.09 (WE)	0.30 (ML)	0.10 (ML)	0.20 (ML)	0.20 (LO)	0.20 (ML)	0.20 (RI)	0.47 (ML)	0.11 (ML)	[0.05, 0.17]	0.12 (MM)	[0.09, 0.15]	
tri	8x	100	5	0.31 (MM)	0.25 (ML)	0.10 (ML)	0.13 (ML)	0.00 (ML)	0.01 (MM)	0.09 (LO)	0.10 (WE)	0.20 (ML)	0.11 (MM)	0.30 (ML)	0.20 (WE)	0.20 (RI)	0.47 (ML)	0.10 (MM)	[0.08, 0.12]	0.17 (ML)	[0.05, 0.28]	
tri	8x	100	10	0.32 (MM)	0.29 (MM)	0.14 (MM)	0.14 (MM)	0.02 (MM)	0.01 (MM)	0.08 (WE)	0.03 (MM)	0.10 (ML)	0.30 (ML)	0.15 (MM)	0.31 (MM)	0.40 (ML)	0.59 (ML)	0.24 (ML)	[0.17, 0.30]	0.25 (MM)	[0.22, 0.28]	
tri	8x	100	15	0.28 (ML)	0.31 (MM)	0.13 (MM)	0.13 (MM)	0.06 (MM)	0.02 (MM)	0.07 (WE)	0.00 (MM)	0.02 (MM)	0.20 (ML)	0.10 (26)	0.23 (MM)	0.60 (WE)	0.65 (ML)	0.20 (MM)	[0.18, 0.22]	0.27 (MM)	[0.23, 0.30]	
tri	8x	100	20	0.32 (MM)	0.28 (ML)	0.15 (MM)	0.15 (MM)	0.04 (MM)	0.00 (ML)	0.08 (WE)	0.02 (MM)	0.10 (ML)	0.23 (MM)	0.23 (MM)	0.30 (LO)	0.40 (ML)	0.60 (ML)	0.22 (MM)	[0.21, 0.24]	0.28 (MM)	[0.25, 0.31]	
tri	8x	500	2	0.01 (VR)	0.00 (VR)	0.02 (RI)	0.70 (VR)	0.65 (VR)	0.75 (PD)	0.74 (VR)	0.74 (VR)	0.82 (VR)	0.90 (FA)	0.70 (VR)	[0.70, 0.71]	0.94 (VR)	[0.94, 0.95]					
tri	8x	500	3	0.35 (ML)	0.12 (ML)	0.03 (ML)	0.03 (LO)	0.00 (WE)	0.01 (LO)	0.07 (WE)	0.10 (ML)	0.30 (RI)	0.20 (ML)	0.30 (LO)	0.10 (LO)	0.40 (LO)	0.44 (ML)	0.08 (ML)	[0.03, 0.14]	0.11 (MM)	[0.08, 0.14]	
tri	8x	500	4	0.21 (WE)	0.23 (ML)	0.02 (WE)	0.11 (ML)	0.03 (LO)	0.02 (RI)	0.10 (WE)	0.20 (ML)	0.30 (ML)	0.20 (ML)	0.22 (MM)	0.30 (LO)	0.20 (ML)	0.47 (ML)	0.14 (ML)	[0.08, 0.20]	0.13 (MM)	[0.10, 0.16]	
tri	8x	500	5	0.30 (MM)	0.27 (ML)	0.09 (ML)	0.13 (MM)	0.01 (ML)	0.00 (MM)	0.09 (LO)	0.10 (ML)	0.11 (MM)	0.12 (MM)	0.20 (ML)	0.20 (LO)	0.30 (LO)	0.47 (ML)	0.10 (MM)	[0.09, 0.12]	0.16 (ML)	[0.04, 0.28]	
tri	8x	500	10	0.33 (MM)	0.29 (MM)	0.14 (MM)	0.15 (MM)	0.02 (MM)	0.01 (RI)	0.07 (WE)	0.00 (MM)	0.08 (MM)	0.10 (ML)	0.13 (MM)	0.34 (MM)	0.35 (MM)	0.60 (ML)	0.24 (ML)	[0.17, 0.30]	0.26 (MM)	[0.23, 0.29]	
tri	8x	500	15	0.29 (ML)	0.31 (MM)	0.12 (ML)	0.14 (MM)	0.05 (MM)	0.02 (MM)	0.07 (WE)	0.01 (MM)	0.02 (MM)	0.20 (ML)	0.23 (MM)	0.24 (MM)	0.50 (LO)	0.66 (ML)	0.20 (MM)	[0.18, 0.22]	0.27 (MM)	[0.24, 0.31]	
tri	8x	500	20	0.32 (MM)	0.29 (ML)	0.14 (MM)	0.15 (MM)	0.03 (MM)	0.00 (ML)	0.08 (WE)	0.01 (MM)	0.10 (ML)	0.27 (MM)	0.28 (MM)	0.30 (ML)	0.40 (ML)	0.62 (ML)	0.23 (MM)	[0.21, 0.25]	0.28 (MM)	[0.25, 0.32]	
tri	8x	1000	2	0.00 (VR)	0.03 (MM)	0.88 (VR)	0.89 (VR)	0.82 (VR)	0.84 (VR)	0.86 (VR)	0.85 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.72]	0.97 (VR)	[0.97, 0.97]						
tri	8x	1000	3	0.34 (ML)	0.16 (ML)	0.03 (ML)	0.02 (LO)	0.00 (WE)	0.01 (MM)	0.06 (WE)	0.10 (ML)	0.30 (RI)	0.10 (MM)	0.20 (ML)	0.11 (MM)	0.30 (RI)	0.45 (ML)	0.09 (ML)	[0.03, 0.14]	0.12 (MM)	[0.09, 0.15]	
tri	8x	1000	4	0.19 (WE)	0.21 (ML)	0.05 (WE)	0.10 (ML)	0.02 (LO)	0.02 (RI)	0.09 (WE)	0.10 (ML)	0.40 (ML)	0.20 (RI)	0.20 (WE)	0.30 (LO)	0.20 (RI)	0.47 (ML)	0.11 (ML)	[0.05, 0.18]	0.13 (MM)	[0.10, 0.16]	
tri	8x	1000	5	0.30 (ML)	0.27 (ML)	0.10 (ML)	0.13 (MM)	0.02 (ML)	0.00 (MM)	0.09 (LO)	0.10 (ML)	0.11 (MM)	0.20 (ML)	0.30 (ML)	0.30 (LO)	0.20 (LO)	0.46 (ML)	0.11 (MM)	[0.09, 0.12]	0.19 (ML)	[0.07, 0.30]	
tri	8x	1000	10	0.33 (MM)	0.29 (MM)	0.14 (MM)	0.15 (MM)	0.02 (MM)	0.00 (LO)	0.07 (WE)	0.00 (MM)	0.10 (ML)	0.12 (MM)	0.20 (WE)	0.38 (MM)	0.37 (MM)	0.61 (ML)	0.24 (ML)	[0.17, 0.30]	0.26 (MM)	[0.23, 0.30]	
tri	8x	1000	15	0.29 (ML)	0.31 (MM)	0.12 (ML)	0.14 (MM)	0.06 (MM)	0.02 (MM)	0.07 (WE)	0.01 (MM)	0.02 (MM)	0.19 (MM)	0.24 (MM)	0.25 (MM)	0.40 (LO)	0.67 (ML)	0.20 (MM)	[0.18, 0.22]	0.27 (MM)	[0.24, 0.31]	
tri	8x	1000	20	0.32 (MM)	0.29 (ML)	0.14 (MM)	0.15 (MM)	0.03 (MM)	0.00 (ML)	0.08 (WE)	0.02 (MM)	0.10 (ML)	0.29 (MM)	0.28 (MM)	0.30 (RI)	0.40 (ML)	0.63 (ML)	0.23 (MM)	[0.21, 0.25]	0.28 (MM)	[0.25, 0.32]	
tri	4x*	5	2	0.03 (VR)	0.01 (VR)	0.01 (VR)	0.08 (VR)	0.03 (WE)	0.00 (PD)	0.05 (MM)	0.16 (ML)	0.15 (ML)	0.16 (FA)	0.24 (PD)	0.23 (PD)	0.20 (ML)	0.44 (ML)	0.12 (PD)	[0.11, 0.14]	0.16 (VR)	[0.14, 0.18]	
tri	4x*	5	3	0.08 (ML)	0.14 (ML)	0.04 (WE)	0.00 (LO)	0.05 (MM)	0.02 (LO)	0.09 (LO)	0.13 (ML)	0.20 (WE)	0.30 (WE)	0.30 (WE)	0.13 (MM)	0.18 (ML)	0.45 (ML)	0.14 (ML)	[0.13, 0.16]	0.13 (ML)	[0.10, 0.16]	
tri	4x*	5	4	0.10 (ML)	0.09 (ML)	0.03 (MM)	0.01 (ML)	0.01 (RI)	0.01 (RI)	0.06 (RI)	0.40 (WE)	0.22 (ML)	0.21 (ML)	0.20 (WE)	0.13 (MM)	0.22 (ML)	0.49 (ML)	0.16 (ML)	[0.14, 0.18]	0.24 (ML)	[0.21, 0.27]	
tri	4x*	5	5	0.02 (RI)	0.14 (ML)	0.03 (MM)	0.01 (ML)	0.03 (LO)	0.02 (WE)	0.05 (WE)	0.40 (LO)	0.20 (WE)	0.23 (ML)	0.40 (LO)	0.20 (LO)	0.40 (RI)	0.49 (ML)	0.18 (ML)	[0.17, 0.20]	0.26 (RI)	[0.17, 0.34]	
tri	4x*	5	10	0.09 (ML)	0.14 (WE)	0.00 (WE)	0.01 (ML)	0.02 (LO)	0.00 (RI)	0.08 (WE)	0.37 (ML)	0.20 (RI)	0.30 (LO)	0.31 (ML)	0.20 (MM)	0.30 (RI)	0.53 (ML)	0.30 (ML)	[0.28, 0.32]	0.36 (ML)	[0.33, 0.40]	
tri	4x*	5	15	0.09 (LO)	0.18 (ML)	0.01 (ML)	0.02 (ML)	0.02 (MM)	0.03 (MM)	0.09 (WE)	0.20 (WE)	0.30 (WE)	0.37 (ML)	0.34 (ML)	0.40 (RI)	0.30 (WE)	0.55 (ML)	0.35 (ML)	[0.33, 0.37]	0.46 (LO)	[0.37, 0.55]	
tri	4x*	5	20	0.14 (ML)	0.18 (ML)	0.01 (LO)	0.05 (ML)	0.00 (RI)	0.01 (MM)	0.08 (WE)	0.20 (RI)	0.20 (RI)	0.44 (ML)	0.30 (ML)	0.40 (RI)	0.38 (ML)	0.58 (ML)	0.37 (ML)	[0.35, 0.39]	0.50 (ML)	[0.47, 0.53]	
tri	4x*	10	2	0.02 (VR)	0.08 (LO)	0.01 (MM)	0.00 (VR)	0.01 (RI)	0.01 (PD)	0.03 (RI)	0.15 (ML)	0.12 (VR)	0.20 (RI)	0.20 (LO)	0.22 (PD)	0.26 (FA)	0.47 (ML)	0.20 (VR)	[0.18, 0.21]	0.27 (VR)	[0.24, 0.29]	
tri	4x*	10	3	0.09 (ML)	0.14 (ML)	0.01 (WE)	0.00 (MM)	0.00 (LO)	0.08 (LO)	0.22 (ML)	0.19 (ML)	0.21 (ML)	0.23 (ML)	0.08 (MM)	0.25 (ML)	0.47 (ML)	0.20 (ML)	[0.18, 0.22]	0.22 (ML)	[0.18, 0.25]		
tri	4x*	10	4	0.11 (ML)	0.12 (ML)	0.03 (MM)	0.00 (LO)	0.00 (WE)	0.01 (MM)	0.08 (RI)	0.17 (ML)	0.20 (RI)	0.30 (LO)	0.20 (LO)	0.11 (MM)	0.27 (ML)	0.51 (ML)	0.24 (ML)	[0.22, 0.26]	0.31 (ML)	[0.27, 0.34]	
tri	4x*	10	5	0.04 (WE)	0.15 (ML)	0.01 (ML)	0.00 (WE)	0.00 (MM)	0.04 (MM)	0.03 (WE)	0.30 (LO)	0.20 (RI)	0.34 (ML)	0.20 (ML)	0.30 (LO)	0.25 (ML)	0.52 (ML)	0.26 (ML)	[0.24, 0.28]	0.34 (ML)	[0.31, 0.38]	
tri	4x*	10	10	0.11 (ML)	0.16 (RI)	0.00 (RI)	0.02 (ML)	0.01 (ML)	0.00 (RI)	0.08 (WE)	0.19 (ML)	0.30 (LO)	0.43 (ML)	0.40 (ML)	0.30 (MM)	0.33 (ML)	0.58 (ML)	0.35 (ML)	[0.33, 0.37]	0.48 (ML)	[0.45, 0.51]	
tri	4x*	10	15	0.10 (LO)	0.16 (RI)	0.00 (LO)	0.04 (ML)	0.01 (LO)	0.01 (MM)	0.09 (MM)	0.17 (ML)	0.20 (RI)	0.42 (ML)	0.40 (RI)	0.50 (RI)	0.50 (ML)	0.61 (ML)	0.41 (WE)	[0.35, 0.46]	0.52 (ML)	[0.49, 0.54]	
tri	4x*	10	20	0.12 (ML)	0.19 (ML)	0.01 (ML)	0.05 (ML)	0.01 (ML)	0.00 (MM)	0.07 (WE)	0.14 (ML)	0.10 (RI)	0.42 (ML)	0.39 (ML)	0.43 (ML)	0.37 (MM)	0.65 (ML)	0.43 (WE)	[0.38, 0.48]	0.57 (ML)	[0.54, 0.59]	

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
tri	4x*	15	2	0.03 (VR)	0.01 (LO)	0.02 (VR)	0.02 (VR)	0.01 (LO)	0.02 (PD)	0.01 (RI)	0.20 (ML)	0.20 (LO,WF0.17 (PD))	0.21 (VR)	0.17 (FA)	0.31 (FA)	0.47 (ML)	0.24 (VR)	[0.23,0.26]	0.37 (VR)	[0.35,0.39]		
tri	4x*	15	3	0.10 (ML)	0.15 (ML)	0.00 (MM)	0.01 (LO)	0.01 (MM)	0.01 (MM)	0.09 (WE)	0.20 (ML)	0.30 (WE)	0.21 (ML)	0.14 (MM)	0.20 (LO)	0.25 (ML)	0.50 (ML)	0.25 (ML)	[0.23,0.27]	0.24 (ML)	[0.20,0.27]	
tri	4x*	15	4	0.11 (ML)	0.12 (ML)	0.00 (LO)	0.04 (ML)	0.00 (LO)	0.01 (LO)	0.09 (LO)	0.20 (RI)	0.19 (ML)	0.33 (ML)	0.24 (ML)	0.20 (WE)	0.28 (ML)	0.54 (ML)	0.27 (ML)	[0.25,0.29]	0.36 (ML)	[0.33,0.39]	
tri	4x*	15	5	0.01 (WE)	0.16 (ML)	0.01 (WE)	0.01 (ML)	0.00 (MM)	0.01 (WE)	0.05 (WE)	0.18 (ML)	0.30 (WE)	0.40 (RI)	0.30 (ML,WF0.20 (MM,RI0.30 (RI))	0.55 (ML)	0.29 (ML)	0.27 (ML)	[0.27,0.31]	0.37 (ML)	[0.33,0.40]		
tri	4x*	15	10	0.10 (RI)	0.13 (WE)	0.01 (ML)	0.06 (ML)	0.01 (LO)	0.01 (LO)	0.08 (WE)	0.20 (RI)	0.20 (RI)	0.41 (ML)	0.20 (ML)	0.50 (RI)	0.50 (RI)	0.63 (ML)	0.40 (WE)	[0.34,0.45]	0.52 (ML)	[0.49,0.55]	
tri	4x*	15	15	0.13 (ML)	0.12 (RI)	0.00 (RI)	0.05 (ML)	0.00 (LO)	0.01 (ML)	0.08 (WE)	0.10 (ML,LF0.20 (RI,WF0.60 (LO))	0.30 (LO)	0.50 (RI)	0.52 (ML)	0.66 (ML)	0.39 (WE)	0.34 (0.44)	0.58 (ML)	[0.55,0.60]			
tri	4x*	15	20	0.12 (LO)	0.18 (ML)	0.00 (RI)	0.05 (RI)	0.01 (ML)	0.00 (WE)	0.07 (WE)	0.10 (RI,LF0.10 (RI,WF0.80 (RI))	0.40 (RI)	0.60 (RI,LF0.50 (LO))	0.71 (ML)	0.45 (WE)	0.39 (0.50)	0.61 (LO)	[0.53,0.68]				
tri	4x*	20	2	0.05 (ML)	0.02 (VR)	0.05 (VR)	0.01 (VR)	0.00 (MM)	0.00 (PD)	0.02 (WE)	0.30 (LO)	0.12 (VR)	0.19 (VR)	0.23 (VR)	0.31 (PD)	0.37 (PD)	0.49 (ML)	0.29 (VR)	[0.28,0.30]	0.40 (VR)	[0.37,0.42]	
tri	4x*	20	3	0.11 (ML)	0.18 (ML)	0.01 (RI)	0.01 (MM)	0.01 (RI)	0.02 (MM)	0.08 (WE)	0.12 (ML)	0.19 (ML)	0.20 (ML,LF0.11 (ML))	0.20 (WE)	0.21 (ML)	0.52 (ML)	0.28 (ML)	[0.26,0.30]	0.30 (ML)	[0.26,0.33]		
tri	4x*	20	4	0.12 (RI)	0.14 (ML)	0.00 (LO)	0.04 (ML)	0.00 (LO)	0.03 (MM)	0.08 (RI)	0.20 (RI)	0.12 (ML)	0.20 (ML)	0.19 (ML)	0.18 (ML)	0.35 (ML)	0.56 (ML)	0.28 (ML)	[0.26,0.30]	0.39 (ML)	[0.36,0.42]	
tri	4x*	20	5	0.08 (WE)	0.14 (ML)	0.01 (RI)	0.02 (ML)	0.02 (ML)	0.01 (LO)	0.05 (WE)	0.20 (RI)	0.30 (WE)	0.50 (RI)	0.30 (RI)	0.33 (ML)	0.30 (RI)	0.57 (ML)	0.30 (ML)	[0.28,0.32]	0.42 (ML)	[0.38,0.45]	
tri	4x*	20	10	0.11 (WE)	0.14 (LO)	0.00 (WE)	0.00 (WE)	0.01 (ML)	0.00 (WE)	0.08 (WE)	0.20 (LO)	0.30 (RI)	0.50 (ML,LF0.60 (RI,WF0.40 (RI))	0.50 (LO)	0.65 (ML)	0.37 (ML)	[0.35,0.38]	0.54 (ML)	[0.51,0.56]			
tri	4x*	20	15	0.07 (LO)	0.15 (WE)	0.00 (WE)	0.05 (ML)	0.00 (WE)	0.00 (MM)	0.09 (WE)	0.30 (LO)	0.10 (RI,LF0.56 (MM))	0.30 (LO)	0.51 (ML)	0.58 (ML)	0.69 (ML)	0.42 (WE)	[0.36,0.46]	0.58 (LO)	[0.49,0.65]		
tri	4x*	20	20	0.12 (LO)	0.19 (ML)	0.02 (ML)	0.05 (LO)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.20 (LO)	0.10 (LO)	0.50 (LO)	0.28 (ML)	0.45 (ML)	0.60 (RI)	0.73 (ML)	0.43 (WE)	[0.37,0.47]	0.57 (ML)	[0.55,0.59]	
tri	4x*	50	2	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.00 (ML)	0.00 (MM)	0.00 (PD)	0.01 (RI)	0.34 (VR)	0.33 (VR)	0.25 (VR)	0.28 (VR)	0.50 (PD)	0.59 (PD)	0.49 (FA)	0.46 (VR)	[0.45,0.47]	0.64 (VR)	[0.62,0.66]	
tri	4x*	50	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.01 (ML)	0.01 (MM)	0.00 (MM)	0.07 (RI)	0.10 (ML,LF0.16 (ML))	0.15 (ML)	0.11 (ML)	0.16 (ML)	0.30 (LO)	0.55 (ML)	0.30 (ML)	[0.28,0.32]	0.33 (ML)	[0.29,0.36]		
tri	4x*	50	4	0.10 (RI)	0.15 (ML)	0.01 (MM)	0.06 (ML)	0.01 (MM)	0.01 (MM)	0.09 (LO)	0.10 (RI,WF0.13 (ML))	0.30 (RI,LF0.20 (RI))	0.40 (RI)	0.37 (ML)	0.62 (ML)	0.31 (ML)	[0.30,0.33]	0.43 (ML)	[0.39,0.46]			
tri	4x*	50	5	0.01 (WE)	0.13 (LO)	0.00 (ML)	0.00 (LO)	0.01 (ML)	0.00 (RI)	0.04 (WE)	0.30 (WE)	0.20 (RI)	0.39 (ML)	0.20 (LO)	0.40 (LO)	0.51 (ML)	0.64 (ML)	0.31 (ML)	[0.29,0.33]	0.45 (ML)	[0.42,0.48]	
tri	4x*	50	10	0.10 (WE)	0.15 (LO)	0.00 (ML)	0.00 (WE)	0.00 (RI)	0.01 (MM)	0.08 (WE)	0.20 (RI)	0.10 (RI,WF0.60 (ML,LF0.30 (RI,WF0.70 (RI,WF0.61 (ML))	0.73 (ML)	0.42 (WE)	[0.37,0.46]	0.55 (ML)	[0.53,0.58]					
tri	4x*	50	15	0.12 (LO)	0.16 (WE)	0.00 (RI)	0.04 (RI)	0.00 (LO)	0.00 (WE)	0.08 (WE)	0.10 (LO)	0.20 (LO)	0.70 (ML,LF0.60 (RI))	0.70 (LO)	0.67 (ML)	0.79 (ML)	0.50 (WE)	[0.45,0.54]	0.61 (LO)	[0.53,0.67]		
tri	4x*	50	20	0.14 (LO)	0.19 (ML)	0.01 (ML)	0.04 (LO)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.01 (ML)	0.02 (ML)	0.73 (ML)	0.40 (LO)	0.72 (ML)	0.80 (LO)	0.82 (ML)	0.49 (WE)	[0.45,0.54]	0.59 (ML)	[0.57,0.61]	
tri	4x*	100	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (MM)	0.03 (RI)	0.33 (VR)	0.40 (VR)	0.41 (VR)	0.34 (VR)	0.57 (PD)	0.65 (PD)	0.63 (FA)	0.58 (VR)	[0.57,0.59]	0.79 (VR)	[0.77,0.80]	
tri	4x*	100	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.01 (ML)	0.01 (ML)	0.01 (RI)	0.08 (RI)	0.10 (LO,WF0.17 (ML))	0.20 (RI,WF0.20 (RI,WF0.20 (LO))	0.56 (ML)	0.31 (ML)	[0.29,0.33]	0.35 (ML)	[0.31,0.38]					
tri	4x*	100	4	0.12 (RI)	0.15 (ML)	0.01 (MM)	0.06 (ML)	0.02 (WE)	0.01 (LO)	0.09 (RI)	0.10 (WE)	0.20 (ML)	0.30 (RI)	0.20 (WE)	0.30 (WE)	0.34 (ML)	0.65 (ML)	0.30 (ML)	[0.28,0.32]	0.45 (RI)	[0.36,0.54]	
tri	4x*	100	5	0.07 (WE)	0.16 (ML)	0.01 (ML)	0.00 (RI)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.02 (MM,LF0.20 (LO))	0.40 (LO)	0.30 (RI,LF0.25 (ML))	0.43 (ML)	0.68 (ML)	0.30 (ML)	[0.28,0.32]	0.48 (RI)	[0.39,0.56]			
tri	4x*	100	10	0.12 (LO)	0.15 (RI)	0.00 (RI)	0.04 (WE)	0.01 (ML)	0.01 (ML)	0.08 (WE)	0.03 (MM,LF0.10 (RI,LF0.70 (LO))	0.30 (RI)	0.51 (ML)	0.61 (ML)	0.77 (ML)	0.46 (WE)	[0.41,0.51]	0.56 (ML)	[0.53,0.58]			
tri	4x*	100	15	0.11 (LO)	0.17 (WE)	0.01 (LO)	0.06 (ML)	0.01 (ML)	0.00 (WE)	0.08 (WE)	0.20 (RI)	0.10 (RI)	0.71 (ML)	0.30 (WE)	0.73 (ML)	0.73 (ML)	0.48 (WE)	[0.44,0.53]	0.62 (LO)	[0.55,0.69]		
tri	4x*	100	20	0.12 (LO)	0.19 (RI)	0.02 (LO)	0.04 (LO)	0.02 (ML)	0.00 (ML)	0.07 (WE)	0.10 (LO)	0.04 (ML)	0.80 (LO)	0.30 (LO)	0.90 (RI)	0.81 (ML)	0.84 (ML)	0.54 (WE)	[0.49,0.58]	0.61 (LO)	[0.53,0.67]	
tri	4x*	500	2	0.00 (VR)	0.00 (MM)	0.01 (RI)	0.75 (VR)	0.65 (VR)	0.73 (VR)	0.75 (VR)	0.72 (VR)	0.89 (PD)	0.88 (FA)	0.72 (VR)	[0.71,0.73]	0.94 (VR)	[0.94,0.95]					
tri	4x*	500	3	0.12 (ML)	0.19 (ML)	0.00 (ML)	0.01 (ML)	0.01 (LO)	0.00 (MM)	0.08 (RI)	0.10 (RI,LF0.20 (ML))	0.20 (WE)	0.10 (RI,WF0.20 (LO))	0.20 (RI)	0.55 (ML)	0.32 (ML)	[0.30,0.34]	0.36 (ML)	[0.33,0.39]			
tri	4x*	500	4	0.11 (RI)	0.16 (ML)	0.00 (MM)	0.05 (LO)	0.02 (MM)	0.01 (ML)	0.09 (RI)	0.10 (RI)	0.20 (ML)	0.20 (WE)	0.20 (WE)	0.40 (WE)	0.30 (WE)	0.65 (ML)	0.30 (ML)	[0.28,0.32]	0.49 (RI)	[0.40,0.57]	
tri	4x*	500	5	0.04 (WE)	0.15 (LO)	0.01 (ML)	0.01 (WE)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.10 (RI)	0.30 (RI)	0.50 (RI)	0.10 (RI,WF0.23 (ML))	0.34 (ML)	0.68 (ML)	0.30 (ML)	[0.28,0.32]	0.52 (RI)	[0.43,0.60]		
tri	4x*	500	10	0.12 (WE)	0.14 (RI)	0.01 (ML)	0.04 (WE)	0.00 (ML)	0.08 (ML)	0.10 (LO)	0.10 (RI,LF0.70 (RI))	0.20 (RI,WF0.80 (RI))	0.70 (ML,LF0.79 (ML))	0.46 (WE)	[0.41,0.50]	0.58 (RI)	[0.50,0.64]					
tri	4x*	500	15	0.11 (LO)	0.16 (WE)	0.00 (LO)	0.06 (ML)	0.01 (LO)	0.00 (ML)	0.08 (WE)	0.01 (MM)	0.10 (RI,LF0.80 (LO))	0.30 (RI,LF0.88 (ML))	0.84 (ML)	0.82 (ML)	0.49 (WE)	[0.44,0.54]	0.62 (LO)	[0.55,0.69]			
tri	4x*	500	20	0.13 (LO)	0.18 (RI)	0.02 (ML)	0.05 (LO)	0.02 (ML)	0.00 (ML)	0.07 (WE)	0.00 (MM,LF0.03 (MM,LF1.00 (LO))	0.30 (LO)	1.00 (RI)	0.90 (RI)	0.84 (RI)	0.55 (WE)	[0.51,0.59]	0.61 (LO)	[0.54,0.67]			

Population			RMSE								IC								CCC						
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC				
tri	4x*	1000	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.02 (RI)	0.90 (VR)	0.82 (VR)	0.88 (VR)	0.81 (VR)	0.83 (VR)	0.97 (PD)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]				
tri	4x*	1000	3	0.11 (ML)	0.19 (ML)	0.00 (ML)	0.01 (ML)	0.01 (ML)	0.00 (MM)	0.08 (RI)	0.10 (LO)	0.23 (ML)	0.10 (LO)	0.10 (RI)	0.17 (ML)	0.55 (ML)	0.32 (ML)	[0.30, 0.34]	0.36 (ML)	[0.33, 0.40]					
tri	4x*	1000	4	0.11 (RI)	0.15 (ML)	0.00 (MM)	0.07 (ML)	0.02 (WE)	0.01 (ML)	0.09 (RI)	0.10 (RI)	0.18 (ML)	0.30 (WE)	0.10 (WE)	0.50 (WE)	0.30 (WE)	0.65 (ML)	0.30 (ML)	[0.28, 0.31]	0.46 (RI)	[0.37, 0.54]				
tri	4x*	1000	5	0.04 (WE)	0.16 (LO)	0.01 (ML)	0.00 (WE)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.02 (ML)	0.30 (RI)	0.40 (RI)	0.01 (ML)	0.20 (RI)	0.25 (ML)	0.68 (ML)	0.30 (RI)	[0.25, 0.35]	0.53 (RI)	[0.44, 0.61]				
tri	4x*	1000	10	0.11 (WE)	0.15 (LO)	0.01 (ML)	0.04 (WE)	0.00 (WE)	0.00 (ML)	0.08 (WE)	0.01 (MM)	0.10 (RI)	0.10 (LO)	0.10 (RI)	0.20 (RI)	0.25 (ML)	0.68 (ML)	0.30 (RI)	[0.25, 0.35]	0.53 (RI)	[0.44, 0.61]				
tri	4x*	1000	15	0.11 (LO)	0.16 (RI)	0.00 (LO)	0.06 (ML)	0.00 (LO)	0.00 (ML)	0.08 (WE)	0.00 (MM)	0.10 (LO)	0.10 (RI)	0.84 (MM)	0.20 (RI)	0.80 (RI)	0.80 (RI)	0.79 (ML)	0.46 (WE)	[0.41, 0.51]	0.59 (RI)	[0.51, 0.65]			
tri	4x*	1000	20	0.13 (LO)	0.18 (RI)	0.02 (ML)	0.04 (LO)	0.02 (ML)	0.00 (ML)	0.07 (WE)	0.00 (MM)	0.03 (MM)	0.10 (LO)	0.30 (LO)	0.92 (MM)	0.90 (RI)	0.87 (ML)	0.82 (ML)	0.50 (WE)	[0.45, 0.54]	0.63 (LO)	[0.56, 0.69]			
tri	6x*	5	2	0.05 (VR)	0.01 (VR)	0.04 (VR)	0.03 (VR)	0.05 (PD)	0.03 (VR)	0.00 (WE)	0.20 (LO)	0.13 (ML)	0.30 (LO)	0.18 (PD)	0.23 (FA)	0.21 (MM)	0.58 (MM)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]				
tri	6x*	5	3	0.08 (ML)	0.14 (ML)	0.04 (LO)	0.01 (ML)	0.03 (MM)	0.00 (LO)	0.08 (WE)	0.20 (ML)	0.13 (ML)	0.20 (LO)	0.20 (LO)	0.14 (ML)	0.18 (ML)	0.45 (ML)	0.09 (ML)	[0.07, 0.10]	0.13 (ML)	[0.10, 0.16]				
tri	6x*	5	4	0.12 (ML)	0.13 (WE)	0.02 (ML)	0.02 (ML)	0.04 (MM)	0.02 (RI)	0.09 (MM)	0.19 (ML)	0.14 (ML)	0.20 (LO)	0.13 (ML)	0.13 (ML)	0.20 (ML)	0.47 (ML)	0.13 (ML)	[0.11, 0.15]	0.19 (ML)	[0.16, 0.23]				
tri	6x*	5	5	0.12 (ML)	0.09 (LO)	0.02 (LO)	0.00 (RI)	0.01 (MM)	0.02 (MM)	0.09 (RI)	0.24 (MM)	0.16 (ML)	0.10 (RI)	0.10 (LO)	0.20 (RI)	0.25 (ML)	0.48 (ML)	0.17 (ML)	[0.15, 0.19]	0.22 (ML)	[0.18, 0.25]				
tri	6x*	5	10	0.15 (ML)	0.15 (RI)	0.02 (LO)	0.06 (ML)	0.02 (RI)	0.00 (MM)	0.09 (LO)	0.25 (ML)	0.20 (RI)	0.20 (RI)	0.30 (LO)	0.50 (RI)	0.30 (ML)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.34 (ML)	[0.30, 0.37]				
tri	6x*	5	15	0.10 (RI)	0.19 (ML)	0.00 (ML)	0.01 (LO)	0.01 (WE)	0.04 (WE)	0.06 (WE)	0.40 (LO)	0.20 (RI)	0.30 (WE)	0.17 (MM)	0.30 (WE)	0.50 (RI)	0.56 (ML)	0.26 (ML)	[0.24, 0.28]	0.41 (RI)	[0.32, 0.49]				
tri	6x*	5	20	0.08 (LO)	0.17 (LO)	0.00 (WE)	0.06 (ML)	0.01 (LO)	0.00 (MM)	0.08 (WE)	0.40 (RI)	0.20 (LO)	0.20 (LO)	0.29 (MM)	0.40 (LO)	0.50 (RI)	0.60 (RI)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.40 (ML)	[0.36, 0.43]			
tri	6x*	10	2	0.05 (VR)	0.04 (VR)	0.01 (LO)	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.01 (WE)	0.15 (ML)	0.12 (VR)	0.31 (PD)	0.30 (PD)	0.31 (PD)	0.30 (PD)	0.47 (MM)	0.20 (VR)	[0.18, 0.21]	0.26 (VR)	[0.23, 0.28]				
tri	6x*	10	3	0.03 (LO)	0.12 (ML)	0.01 (MM)	0.03 (ML)	0.03 (MM)	0.01 (WE)	0.09 (MM)	0.21 (ML)	0.22 (ML)	0.10 (MM)	0.20 (LO)	0.10 (LO)	0.30 (LO)	0.17 (ML)	0.46 (ML)	0.16 (ML)	[0.15, 0.18]	0.18 (ML)	[0.15, 0.21]			
tri	6x*	10	4	0.14 (ML)	0.18 (WE)	0.02 (ML)	0.03 (ML)	0.01 (MM)	0.01 (WE)	0.09 (MM)	0.28 (ML)	0.18 (MM)	0.30 (LO)	0.15 (MM)	0.20 (RI)	0.20 (ML)	0.49 (ML)	0.17 (ML)	[0.15, 0.19]	0.23 (RI)	[0.14, 0.32]				
tri	6x*	10	5	0.15 (ML)	0.20 (ML)	0.00 (LO)	0.04 (ML)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.21 (MM)	0.20 (LO)	0.30 (LO)	0.20 (RI)	0.30 (LO)	0.30 (LO)	0.51 (ML)	0.21 (ML)	[0.19, 0.23]	0.36 (RI)	[0.28, 0.44]				
tri	6x*	10	10	0.15 (ML)	0.16 (LO)	0.00 (MM)	0.00 (LO)	0.01 (ML)	0.01 (MM)	0.08 (WE)	0.22 (ML)	0.20 (LO)	0.30 (LO)	0.40 (RI)	0.30 (LO)	0.40 (RI)	0.56 (ML)	0.25 (ML)	[0.23, 0.27]	0.39 (ML)	[0.36, 0.42]				
tri	6x*	10	15	0.16 (WE)	0.16 (LO)	0.01 (ML)	0.01 (LO)	0.00 (WE)	0.02 (MM)	0.08 (WE)	0.17 (ML)	0.16 (ML)	0.40 (WE)	0.30 (WE)	0.70 (RI)	0.40 (WE)	0.60 (ML)	0.28 (ML)	[0.26, 0.30]	0.42 (ML)	[0.39, 0.45]				
tri	6x*	10	20	0.08 (RI)	0.17 (LO)	0.00 (WE)	0.09 (ML)	0.00 (WE)	0.00 (RI)	0.07 (WE)	0.40 (LO)	0.10 (LO)	0.40 (LO)	0.40 (RI)	0.50 (RI)	0.46 (ML)	0.62 (ML)	0.30 (ML)	[0.28, 0.32]	0.42 (ML)	[0.39, 0.45]				
tri	6x*	15	2	0.02 (VR)	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.04 (MM)	0.15 (VR)	0.16 (ML)	0.32 (PD)	0.34 (PD)	0.49 (PD)	0.27 (VR)	0.46 (ML)	0.24 (VR)	[0.23, 0.26]	0.33 (VR)	[0.30, 0.36]				
tri	6x*	15	3	0.00 (LO)	0.13 (ML)	0.00 (MM)	0.03 (ML)	0.01 (MM)	0.01 (LO)	0.09 (MM)	0.22 (ML)	0.18 (ML)	0.20 (LO)	0.09 (ML)	0.10 (MM)	0.50 (LO)	0.48 (ML)	0.18 (ML)	[0.16, 0.20]	0.21 (ML)	[0.17, 0.24]				
tri	6x*	15	4	0.14 (ML)	0.05 (WE)	0.00 (ML)	0.01 (WE)	0.02 (MM)	0.02 (MM)	0.09 (RI)	0.21 (ML)	0.30 (RI)	0.20 (RI)	0.15 (MM)	0.30 (WE)	0.21 (ML)	0.50 (ML)	0.19 (ML)	[0.17, 0.21]	0.29 (ML)	[0.26, 0.33]				
tri	6x*	15	5	0.15 (ML)	0.20 (ML)	0.01 (ML)	0.07 (ML)	0.03 (RI)	0.00 (LO)	0.10 (MM)	0.21 (MM)	0.15 (ML)	0.50 (LO)	0.30 (WE)	0.60 (LO)	0.30 (RI)	0.53 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.29, 0.36]				
tri	6x*	15	10	0.15 (ML)	0.15 (RI)	0.00 (MM)	0.01 (WE)	0.00 (ML)	0.00 (WE)	0.09 (MM)	0.19 (MM)	0.20 (LO)	0.21 (ML)	0.30 (LO)	0.40 (RI)	0.40 (LO)	0.59 (ML)	0.27 (ML)	[0.25, 0.29]	0.40 (ML)	[0.36, 0.43]				
tri	6x*	15	15	0.13 (WE)	0.21 (ML)	0.00 (WE)	0.01 (LO)	0.01 (MM)	0.00 (WE)	0.09 (WE)	0.15 (MM)	0.10 (ML)	0.50 (RI)	0.30 (LO)	0.50 (LO)	0.44 (ML)	0.63 (ML)	0.30 (ML)	[0.28, 0.31]	0.44 (ML)	[0.41, 0.47]				
tri	6x*	15	20	0.08 (LO)	0.19 (LO)	0.00 (ML)	0.09 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.30 (LO)	0.10 (LO)	0.33 (ML)	0.30 (LO)	0.38 (ML)	0.51 (ML)	0.65 (ML)	0.30 (ML)	[0.28, 0.31]	0.44 (ML)	[0.41, 0.47]				
tri	6x*	20	2	0.03 (WE)	0.02 (VR)	0.01 (VR)	0.01 (ML)	0.01 (WE)	0.02 (VR)	0.04 (MM)	0.30 (WE)	0.24 (VR)	0.28 (PD)	0.25 (PD)	0.43 (PD)	0.26 (FA)	0.46 (ML)	0.28 (VR)	[0.26, 0.29]	0.42 (VR)	[0.39, 0.44]				
tri	6x*	20	3	0.01 (LO)	0.16 (ML)	0.00 (MM)	0.05 (LO)	0.04 (MM)	0.02 (MM)	0.09 (MM)	0.22 (ML)	0.19 (ML)	0.13 (MM)	0.15 (MM)	0.12 (ML)	0.23 (ML)	0.48 (ML)	0.19 (ML)	[0.17, 0.21]	0.23 (ML)	[0.19, 0.26]				
tri	6x*	20	4	0.13 (ML)	0.08 (WE)	0.00 (ML)	0.03 (ML)	0.03 (WE)	0.01 (MM)	0.09 (RI)	0.16 (MM)	0.10 (ML)	0.50 (RI)	0.18 (ML)	0.16 (ML)	0.20 (LO)	0.30 (LO)	0.50 (ML)	0.20 (ML)	[0.18, 0.22]	0.29 (RI)	[0.20, 0.38]			
tri	6x*	20	5	0.15 (ML)	0.19 (ML)	0.00 (ML)	0.06 (LO)	0.04 (MM)	0.03 (MM)	0.10 (LO)	0.22 (ML)	0.20 (LO)	0.50 (WE)	0.30 (RI)	0.30 (LO)	0.40 (LO)	0.53 (ML)	0.26 (ML)	[0.24, 0.28]	0.33 (ML)	[0.30, 0.37]				
tri	6x*	20	10	0.14 (ML)	0.18 (LO)	0.00 (MM)	0.02 (WE)	0.00 (ML)	0.02 (MM)	0.09 (MM)	0.27 (ML)	0.20 (RI)	0.40 (LO)	0.30 (LO)	0.40 (LO)	0.59 (ML)	0.27 (ML)	[0.25, 0.29]	0.42 (ML)	[0.38, 0.45]					
tri	6x*	20	15	0.16 (WE)	0.20 (LO)	0.00 (LO)	0.00 (WE)	0.01 (ML)	0.00 (RI)	0.07 (WE)	0.20 (WE)	0.10 (ML)	0.26 (MM)	0.20 (WE)	0.31 (ML)	0.47 (ML)	0.64 (ML)	0.29 (ML)	[0.27, 0.31]	0.45 (ML)	[0.42, 0.47]				
tri	6x*	20	20	0.08 (LO)	0.22 (ML)	0.00 (MM)	0.04 (LO)	0.00 (WE)	0.00 (RI)	0.07 (WE)	0.50 (LO)	0.20 (RI)	0.50 (LO)	0.50 (RI)	0.80 (LO)	0.55 (ML)	0.67 (ML)	0.29 (ML)	[0.27, 0.30]	0.47 (ML)	[0.45, 0.50]				

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
tri	6x*	50	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.35 (VR)	0.28 (VR)	0.28 (PD)	0.26 (VR)	0.57 (PD)	0.37 (FA)	0.60 (FA)	0.46 (VR)	[0.45, 0.47]	0.63 (VR)	[0.61, 0.65]	
tri	6x*	50	3	0.07 (RI)	0.14 (RI)	0.01 (RI)	0.03 (ML)	0.01 (MM)	0.00 (LO)	0.10 (WE)	0.20 (LO)	0.21 (ML)	0.30 (LO)	0.20 (RI), L(0.20 (RI), L(0.30 (LO)	0.49 (ML)	0.23 (ML)	[0.21, 0.25]	0.29 (ML)	[0.25, 0.32]			
tri	6x*	50	4	0.14 (ML)	0.10 (WE)	0.01 (ML)	0.02 (WE)	0.01 (MM)	0.01 (WE)	0.10 (MM)	0.20 (RI)	0.20 (RI)	0.20 (LO)	0.20 (MM), L(0.20 (ML), W(0.29 (ML)	0.52 (ML)	0.23 (ML)	[0.21, 0.25]	0.32 (ML)	[0.28, 0.35]			
tri	6x*	50	5	0.16 (ML)	0.23 (LO)	0.02 (LD)	0.09 (ML)	0.03 (MM)	0.02 (MM)	0.09 (WE)	0.20 (LO)	0.20 (RI)	0.30 (RI)	0.30 (WE)	0.20 (WE)	0.40 (RI)	0.56 (ML)	0.27 (ML)	[0.26, 0.29]	0.38 (ML)	[0.35, 0.41]	
tri	6x*	50	10	0.16 (ML)	0.13 (LO)	0.01 (MM)	0.04 (WE)	0.01 (ML)	0.00 (LO)	0.09 (MM)	0.26 (MM)	0.40 (RI)	0.12 (ML)	0.30 (RI), L(0.40 (WE)	0.34 (ML)	0.62 (ML)	0.28 (ML)	[0.26, 0.29]	0.43 (ML)	[0.40, 0.46]		
tri	6x*	50	15	0.14 (RI)	0.21 (LO)	0.01 (ML)	0.01 (LO)	0.01 (ML)	0.01 (WE)	0.08 (WE)	0.30 (WE)	0.07 (ML)	0.27 (ML)	0.20 (WE)	0.31 (ML)	0.52 (ML)	0.68 (ML)	0.29 (ML)	[0.27, 0.30]	0.47 (LO)	[0.38, 0.55]	
tri	6x*	50	20	0.08 (LO)	0.20 (LO)	0.00 (ML)	0.06 (LO)	0.00 (LO)	0.00 (LO)	0.08 (WE)	0.50 (LO)	0.10 (RI), W(0.32 (ML)	0.50 (LO)	0.43 (ML)	0.51 (ML)	0.70 (ML)	0.29 (WE)	[0.24, 0.34]	0.47 (ML)	[0.44, 0.49]		
tri	6x*	100	2	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (RI)	0.35 (VR)	0.24 (VR)	0.32 (VR)	0.32 (VR)	0.66 (PD)	0.45 (FA)	0.74 (FA)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.77, 0.79]		
tri	6x*	100	3	0.01 (RI)	0.07 (RI)	0.01 (MM)	0.06 (RI)	0.02 (MM)	0.00 (WE)	0.09 (WE)	0.20 (WE)	0.11 (MM), M(0.30 (LO)	0.20 (RI)	0.50 (LO)	0.27 (ML)	0.51 (ML)	0.25 (ML)	[0.23, 0.27]	0.31 (ML)	[0.28, 0.35]		
tri	6x*	100	4	0.13 (ML)	0.09 (WE)	0.01 (ML)	0.04 (WE)	0.01 (MM)	0.00 (WE)	0.10 (MM)	0.21 (ML)	0.10 (RI), L(0.30 (WE)	0.22 (MM)	0.30 (LO)	0.30 (ML), R(0.53 (ML)	0.24 (ML)	[0.22, 0.26]	0.34 (ML)	[0.31, 0.37]			
tri	6x*	100	5	0.16 (ML)	0.18 (LO)	0.01 (LO)	0.09 (ML)	0.02 (MM)	0.00 (RI)	0.10 (MM)	0.30 (RI)	0.10 (RI), L(0.60 (LO)	0.40 (LO)	0.20 (RI), L(0.40 (RI), L(0.57 (ML)	0.28 (ML)	[0.26, 0.30]	0.39 (ML)	[0.36, 0.42]				
tri	6x*	100	10	0.15 (ML)	0.13 (LO)	0.00 (MM)	0.00 (WE)	0.01 (RI)	0.02 (MM)	0.09 (WE)	0.26 (MM)	0.30 (LO)	0.30 (RI)	0.20 (LO)	0.20 (LO), W(0.32 (ML)	0.62 (ML)	0.27 (ML)	[0.25, 0.29]	0.44 (ML)	[0.42, 0.47]		
tri	6x*	100	15	0.13 (RI)	0.21 (LO)	0.00 (LO)	0.01 (LO)	0.00 (RI)	0.01 (ML)	0.08 (WE)	0.30 (LO)	0.10 (LO)	0.30 (RI), L(0.20 (RI), W(0.50 (WE)	0.38 (ML)	0.67 (ML)	0.31 (WE)	[0.25, 0.36]	0.48 (RI)	[0.39, 0.55]			
tri	6x*	100	20	0.08 (LO)	0.22 (LO)	0.01 (ML)	0.06 (LO)	0.01 (LO)	0.00 (ML)	0.07 (WE)	0.50 (LO)	0.04 (ML)	0.50 (RI), L(0.30 (RI), L(0.40 (LO)	0.70 (ML)	0.32 (WE)	[0.27, 0.37]	0.48 (LO)	[0.39, 0.56]				
tri	500	2	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.05 (MM)	0.65 (VR)	0.66 (VR)	0.72 (VR)	0.72 (VR)	0.79 (PD)	0.67 (VR)	0.90 (FA)	0.70 (VR)	[0.70, 0.71]	0.94 (VR)	[0.94, 0.95]		
tri	500	3	0.02 (WE)	0.18 (ML)	0.01 (MM)	0.06 (ML)	0.01 (MM)	0.01 (RI)	0.09 (WE)	0.11 (ML)	0.10 (RI), L(0.18 (MM)	0.20 (LO)	0.30 (RI)	0.37 (ML)	0.53 (ML)	0.27 (ML)	[0.25, 0.29]	0.33 (ML)	[0.29, 0.36]			
tri	500	4	0.14 (ML)	0.09 (WE)	0.02 (ML)	0.04 (WE)	0.00 (MM)	0.00 (MM)	0.10 (RI)	0.30 (LO)	0.10 (RI)	0.22 (MM)	0.23 (MM)	0.21 (MM)	0.30 (WE)	0.52 (ML)	0.25 (ML)	[0.23, 0.27]	0.34 (ML)	[0.31, 0.38]		
tri	500	5	0.16 (ML)	0.21 (LO)	0.01 (LO)	0.09 (ML)	0.03 (MM)	0.01 (LO)	0.09 (MM)	0.23 (ML)	0.20 (RI)	0.40 (LO)	0.30 (LO)	0.30 (RI)	0.40 (RI)	0.57 (ML)	0.29 (ML)	[0.27, 0.31]	0.39 (ML)	[0.35, 0.42]		
tri	500	10	0.16 (ML)	0.15 (LO)	0.00 (ML)	0.03 (WE)	0.01 (RI)	0.02 (MM)	0.09 (MM)	0.30 (WE)	0.20 (LO)	0.10 (RI), W(0.30 (LO)	0.20 (LO)	0.30 (RI), W(0.62 (ML)	0.27 (ML)	[0.25, 0.29]	0.44 (RI)	[0.35, 0.52]				
tri	500	15	0.14 (RI)	0.20 (LO)	0.01 (RI)	0.01 (LO)	0.00 (RI)	0.00 (WE)	0.08 (WE)	0.19 (MM)	0.10 (WE)	0.20 (RI), W(0.30 (LO)	0.60 (WE)	0.40 (ML)	0.66 (ML)	0.31 (WE)	[0.25, 0.36]	0.48 (LO)	[0.40, 0.56]			
tri	500	20	0.09 (LO)	0.21 (LO)	0.00 (RI)	0.08 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	0.50 (LO)	0.10 (RI), L(0.40 (LO)	0.30 (RI)	0.50 (LO)	0.60 (RI)	0.69 (ML)	0.31 (WE)	[0.26, 0.36]	0.49 (LO)	[0.41, 0.57]			
tri	1000	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.86 (VR)	0.83 (VR)	0.83 (VR)	0.86 (VR)	0.88 (VR)	0.89 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]			
tri	1000	3	0.01 (RI)	0.19 (ML)	0.01 (MM)	0.02 (RI)	0.01 (MM)	0.01 (WE)	0.09 (WE)	0.20 (LO)	0.10 (LO)	0.23 (MM)	0.30 (RI)	0.30 (LO)	0.34 (ML)	0.54 (ML)	0.26 (ML)	[0.24, 0.28]	0.32 (ML)	[0.29, 0.36]		
tri	1000	4	0.14 (ML)	0.08 (WE)	0.01 (RI)	0.03 (WE)	0.00 (MM)	0.00 (MM)	0.10 (MM)	0.20 (RI), L(0.04 (ML)	0.25 (MM)	0.30 (MM)	0.20 (WE)	0.24 (ML)	0.52 (ML)	0.25 (ML)	[0.23, 0.27]	0.34 (ML)	[0.31, 0.37]			
tri	1000	5	0.16 (ML)	0.21 (LO)	0.00 (LO)	0.10 (ML)	0.03 (MM)	0.00 (LO)	0.10 (MM)	0.20 (MM), R(0.20 (RI)	0.40 (RI), W(0.28 (MM)	0.30 (RI)	0.40 (RI)	0.57 (ML)	0.29 (ML)	[0.27, 0.31]	0.39 (ML)	[0.36, 0.42]				
tri	1000	10	0.15 (WE)	0.14 (LO)	0.00 (LO)	0.02 (WE)	0.01 (RI)	0.02 (MM)	0.09 (MM)	0.27 (MM)	0.20 (RI), L(0.10 (WE)	0.30 (LO)	0.20 (WE)	0.23 (ML)	0.62 (ML)	0.27 (ML)	[0.25, 0.28]	0.44 (RI)	[0.35, 0.52]			
tri	1000	15	0.14 (RI)	0.19 (LO)	0.01 (RI)	0.02 (LO)	0.00 (WE)	0.00 (ML)	0.08 (WE)	0.20 (WE)	0.10 (WE)	0.30 (RI), W(0.30 (RI)	0.30 (RI), W(0.33 (ML)	0.65 (ML)	0.30 (WE)	[0.25, 0.36]	0.48 (RI)	[0.39, 0.56]				
tri	1000	20	0.09 (LO)	0.21 (LO)	0.00 (RI)	0.07 (LO)	0.01 (RI)	0.00 (ML)	0.07 (WE)	0.50 (LO)	0.10 (RI), L(0.50 (LO)	0.30 (RI)	0.47 (ML)	0.70 (RI)	0.69 (ML)	0.32 (WE)	[0.27, 0.36]	0.49 (LO)	[0.40, 0.57]			
tri	8x*	5	2	0.02 (VR)	0.02 (VR)	0.04 (PD)	0.00 (WE)	0.09 (PD)	0.04 (VR)	0.01 (WE)	0.11 (VR)	0.08 (VR)	0.51 (PD)	0.41 (PD)	0.15 (PD)	0.21 (MM)	0.63 (MM)	0.10 (VR)	[0.09, 0.10]	0.15 (VR)	[0.13, 0.16]	
tri	8x*	5	3	0.06 (ML)	0.05 (ML)	0.02 (ML)	0.11 (ML)	0.02 (RI)	0.02 (MM)	0.07 (LO)	0.20 (WE)	0.20 (ML), R(0.20 (LO)	0.20 (LO)	0.20 (LO)	0.14 (MM)	0.43 (ML)	0.04 (ML)	[0.00, 0.08]	0.07 (LO)	[-0.02, 0.16]		
tri	8x*	5	4	0.20 (ML)	0.17 (ML)	0.16 (ML)	0.00 (ML)	0.01 (MM)	0.05 (WE)	0.02 (WE)	0.20 (ML), R(0.20 (ML)	0.11 (MM)	0.10 (LO)	0.07 (MM)	0.20 (RI), L(0.45 (ML)	0.05 (LO)	[0.01, 0.09]	0.10 (LO)	[0.02, 0.18]			
tri	8x*	5	5	0.17 (ML)	0.32 (MM)	0.11 (ML)	0.04 (ML)	0.01 (ML)	0.04 (ML)	0.08 (LO)	0.14 (MM)	0.10 (MM), R(0.20 (RI)	0.20 (ML), R(0.20 (RI), L(0.40 (LO)	0.45 (ML)	0.05 (MM)	0.04 (0.06)	0.12 (LO)	[0.03, 0.21]				
tri	8x*	5	10	0.28 (ML)	0.29 (MM)	0.13 (ML)	0.11 (MM)	0.04 (ML)	0.01 (ML)	0.06 (WE)	0.10 (WE)	0.10 (ML), R(0.20 (WE)	0.13 (MM)	0.40 (ML)	0.30 (RI)	0.47 (ML)	0.15 (ML)	[0.08, 0.21]	0.16 (MM)	[0.12, 0.19]		
tri	8x*	5	15	0.30 (ML)	0.31 (MM)	0.13 (MM)	0.15 (MM)	0.02 (ML)	0.01 (MM)	0.09 (WE)	0.10 (ML)	0.03 (MM)	0.20 (WE)	0.15 (MM)	0.50 (LO)	0.50 (LO)	0.48 (ML)	0.23 (ML)	[0.17, 0.29]	0.19 (MM)	[0.16, 0.23]	
tri	8x*	5	20	0.29 (ML)	0.31 (MM)	0.06 (ML)	0.13 (ML)	0.01 (RI)	0.00 (MM)	0.06 (WE)	0.10 (RI), W(0.03 (MM)	0.30 (LO)	0.30 (RI)	0.80 (ML)	0.30 (ML)	0.58 (ML)	0.18 (ML)	[0.11, 0.24]	0.21 (MM)	[0.18, 0.25]		

Population			RMSE						IC						CCC							
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC	
tri	8x*	10	2	0.01 (VR)	0.01 (VR)	0.03 (PD)	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.00 (WE)	0.16 (VR)	0.10 (ML,R10.51 (PD)	0.41 (PD)	0.20 (WE,P10.37 (FA)	0.56 (MM)	0.17 (VR)	[0.16,0.19]	0.25 (VR)	[0.23,0.27]			
tri	8x*	10	3	0.23 (ML)	0.12 (ML)	0.07 (LO)	0.13 (ML)	0.01 (RI)	0.04 (MM)	0.07 (LO)	0.20 (ML)	0.30 (ML)	0.20 (ML)	0.20 (LO)	0.11 (MM)	0.20 (LO)	0.43 (ML)	0.03 (LO)	[-0.01,0.08]	0.07 (LO)	[-0.02,0.15]	
tri	8x*	10	4	0.20 (ML)	0.24 (ML)	0.14 (ML)	0.08 (ML)	0.00 (ML)	0.01 (RI)	0.03 (WE)	0.11 (MM)	0.10 (ML)	0.20 (WE)	0.30 (RI)	0.10 (ML,L10.20 (LO)	0.46 (ML)	0.07 (LO)	[0.03,0.11]	0.15 (ML)	[0.04,0.26]		
tri	8x*	10	5	0.27 (ML)	0.29 (ML)	0.08 (ML)	0.05 (ML)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.30 (ML)	0.10 (RI)	0.20 (ML,L10.40 (LO)	0.30 (ML,R10.30 (ML)	0.48 (ML)	0.11 (ML)	[0.05,0.17]	0.20 (ML)	[0.08,0.31]			
tri	8x*	10	10	0.23 (ML)	0.26 (MM)	0.14 (MM)	0.01 (ML)	0.03 (ML)	0.01 (MM)	0.06 (WE)	0.20 (ML)	0.11 (MM)	0.20 (WE)	0.20 (ML)	0.21 (MM)	0.50 (ML,R10.51 (ML)	0.15 (ML)	[0.09,0.22]	0.22 (MM)	[0.19,0.26]		
tri	8x*	10	15	0.33 (MM)	0.31 (MM)	0.12 (MM)	0.01 (ML)	0.00 (RI)	0.10 (WE)	0.10 (RI,L10.03 (MM)	0.21 (MM)	0.20 (ML,R10.30 (ML)	0.60 (LO)	0.53 (ML)	0.18 (ML)	[0.12,0.25]	0.24 (RI)	[0.13,0.33]				
tri	8x*	10	20	0.32 (MM)	0.31 (MM)	0.05 (ML)	0.13 (MM)	0.05 (MM)	0.01 (MM)	0.06 (WE)	0.10 (ML,R10.03 (MM)	0.30 (WE)	0.21 (MM)	0.30 (ML)	0.50 (ML)	0.60 (ML)	0.20 (MM)	[0.18,0.21]	0.23 (MM)	[0.20,0.27]		
tri	8x*	15	2	0.04 (VR)	0.01 (VR)	0.00 (VR)	0.04 (VR)	0.02 (VR)	0.02 (VR)	0.00 (WE)	0.16 (VR)	0.11 (VR)	0.60 (PD)	0.45 (PD)	0.25 (PD)	0.32 (FA)	0.53 (MM)	0.25 (VR)	[0.23,0.26]	0.33 (VR)	[0.31,0.35]	
tri	8x*	15	3	0.25 (ML)	0.02 (ML)	0.05 (ML)	0.04 (ML)	0.03 (LO)	0.00 (MM)	0.07 (LO)	0.20 (WE)	0.40 (ML)	0.20 (LO)	0.10 (ML,R10.20 (LO)	0.20 (RI)	0.46 (ML)	0.04 (MM)	[0.03,0.06]	0.06 (MM)	[0.04,0.09]		
tri	8x*	15	4	0.19 (ML)	0.26 (ML)	0.13 (MM)	0.09 (ML)	0.04 (MM)	0.01 (WE)	0.05 (WE)	0.20 (ML)	0.20 (ML)	0.08 (MM)	0.10 (ML,W10.11 (MM)	0.20 (RI,W10.51 (ML)	0.05 (LO)	[0.01,0.10]	0.21 (ML)	[0.10,0.31]			
tri	8x*	15	5	0.28 (ML)	0.35 (ML)	0.11 (MM)	0.01 (ML)	0.02 (ML)	0.02 (MM)	0.08 (LO)	0.10 (ML)	0.05 (MM)	0.30 (ML)	0.20 (ML,R10.30 (RI)	0.40 (ML)	0.48 (ML)	0.11 (ML)	[0.05,0.17]	0.18 (LO)	[0.08,0.27]		
tri	8x*	15	10	0.19 (ML)	0.24 (ML)	0.12 (ML)	0.08 (ML)	0.03 (ML)	0.02 (ML)	0.06 (WE)	0.10 (ML,R10.10 (ML,L10.20 (LO,W10.22 (MM)	0.30 (ML,L10.24 (MM)	0.53 (ML)	0.18 (ML)	[0.12,0.24]	0.31 (ML)	[0.19,0.41]					
tri	8x*	15	15	0.34 (MM)	0.30 (MM)	0.12 (MM)	0.02 (ML)	0.01 (MM)	0.08 (WE)	0.10 (RI,L10.04 (MM)	0.15 (MM)	0.15 (MM)	0.50 (LO)	0.40 (RI,L10.54 (ML)	0.18 (MM)	[0.17,0.20]	0.23 (MM)	[0.20,0.27]				
tri	8x*	15	20	0.31 (MM)	0.30 (MM)	0.09 (ML)	0.14 (MM)	0.05 (MM)	0.01 (MM)	0.08 (WE)	0.10 (ML,W10.01 (MM)	0.30 (LO,W10.14 (MM)	0.21 (MM)	0.30 (ML)	0.59 (ML)	0.20 (MM)	[0.18,0.21]	0.25 (MM)	[0.22,0.29]			
tri	8x*	20	2	0.00 (ML)	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.05 (VR)	0.04 (VR)	0.04 (RI)	0.10 (VR)	0.10 (VR)	0.52 (PD)	0.52 (PD)	0.28 (PD)	0.40 (LO)	0.52 (MM)	0.32 (VR)	[0.31,0.33]	0.42 (VR)	[0.39,0.44]	
tri	8x*	20	3	0.15 (ML)	0.11 (ML)	0.01 (ML)	0.07 (ML)	0.00 (LO)	0.02 (ML)	0.08 (LO)	0.20 (ML)	0.20 (ML)	0.20 (ML,L10.09 (MM)	0.20 (LO)	0.20 (RI)	0.44 (ML)	0.05 (LO)	[0.01,0.10]	0.10 (LO)	[0.01,0.19]		
tri	8x*	20	4	0.19 (ML)	0.26 (ML)	0.13 (ML)	0.07 (ML)	0.03 (MM)	0.05 (RI)	0.08 (LO)	0.20 (ML)	0.15 (MM)	0.09 (MM)	0.30 (ML)	0.20 (LO)	0.48 (ML)	0.12 (ML)	[0.06,0.19]	0.16 (ML)	[0.05,0.27]		
tri	8x*	20	5	0.29 (ML)	0.31 (ML)	0.14 (MM)	0.01 (ML)	0.02 (ML)	0.01 (MM)	0.09 (LO)	0.20 (ML)	0.10 (LO)	0.12 (MM)	0.20 (ML,L10.30 (ML,L10.20 (ML,R10.47 (ML)	0.15 (ML)	[0.08,0.21]	0.15 (ML)	[0.04,0.27]				
tri	8x*	20	10	0.25 (ML)	0.27 (MM)	0.13 (ML)	0.10 (ML)	0.05 (ML)	0.00 (ML)	0.06 (WE)	0.10 (ML,W10.08 (MM)	0.22 (MM)	0.20 (RI)	0.30 (WE)	0.40 (ML)	0.56 (ML)	0.24 (ML)	[0.18,0.30]	0.24 (MM)	[0.20,0.27]		
tri	8x*	20	15	0.32 (ML)	0.30 (MM)	0.12 (MM)	0.02 (ML)	0.01 (LO)	0.08 (WE)	0.02 (MM)	0.06 (MM)	0.22 (MM)	0.13 (MM)	0.30 (ML,R10.30 (ML,R10.54 (ML)	0.21 (ML)	[0.15,0.26]	0.25 (ML)	[0.14,0.35]				
tri	8x*	20	20	0.30 (MM)	0.31 (MM)	0.09 (ML)	0.13 (MM)	0.04 (MM)	0.00 (ML)	0.08 (WE)	0.10 (RI)	0.02 (MM)	0.30 (LO)	0.20 (MM)	0.27 (MM)	0.50 (LO)	0.61 (ML)	0.20 (MM)	[0.18,0.22]	0.26 (MM)	[0.23,0.30]	
tri	8x*	50	2	0.01 (VR)	0.01 (ML)	0.02 (VR)	0.01 (VR)	0.00 (LO)	0.01 (VR)	0.03 (WE)	0.30 (ML)	0.25 (VR)	0.64 (PD)	0.54 (PD)	0.30 (LO)	0.38 (FA)	0.68 (FA)	0.47 (VR)	[0.45,0.48]	0.64 (VR)	[0.62,0.66]	
tri	8x*	50	3	0.24 (ML)	0.04 (ML)	0.05 (ML)	0.17 (ML)	0.01 (RI)	0.02 (MM)	0.08 (LO)	0.30 (ML)	0.40 (RI)	0.10 (ML,L10.20 (RI)	0.20 (LO)	0.40 (LO)	0.43 (ML)	0.05 (MM)	[0.04,0.07]	0.17 (LO)	[0.07,0.26]		
tri	8x*	50	4	0.24 (ML)	0.27 (ML)	0.15 (ML)	0.06 (ML)	0.00 (LO)	0.02 (WE)	0.07 (WE)	0.20 (ML)	0.20 (WE)	0.10 (WE)	0.20 (ML,R10.11 (MM)	0.20 (ML,R10.51 (ML)	0.10 (LO)	[0.05,0.14]	0.15 (ML)	[0.03,0.27]			
tri	8x*	50	5	0.26 (ML)	0.34 (ML)	0.14 (MM)	0.05 (ML)	0.05 (MM)	0.01 (MM)	0.09 (WE)	0.10 (MM,R10.08 (MM)	0.12 (MM)	0.30 (ML,R10.20 (LO,W10.40 (ML,R10.50 (ML)	0.15 (ML)	[0.08,0.21]	0.16 (MM)	[0.13,0.19]					
tri	8x*	50	10	0.29 (ML)	0.27 (MM)	0.14 (MM)	0.12 (ML)	0.03 (ML)	0.01 (MM)	0.06 (WE)	0.10 (LO,W10.10 (WE)	0.12 (MM)	0.20 (ML)	0.24 (MM)	0.50 (ML)	0.58 (ML)	0.20 (ML)	[0.14,0.26]	0.25 (MM)	[0.22,0.29]		
tri	8x*	50	15	0.33 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.00 (LO)	0.09 (WE)	0.10 (RI)	0.07 (MM)	0.22 (MM)	0.22 (MM)	0.30 (ML,L10.40 (WE)	0.56 (ML)	0.22 (ML)	[0.16,0.28]	0.26 (MM)	[0.23,0.29]		
tri	8x*	50	20	0.31 (MM)	0.30 (MM)	0.08 (ML)	0.13 (MM)	0.05 (MM)	0.01 (MM)	0.07 (WE)	0.10 (WE)	0.03 (MM)	0.30 (LO)	0.25 (MM)	0.21 (MM)	0.70 (ML)	0.63 (ML)	0.22 (MM)	[0.20,0.24]	0.28 (MM)	[0.24,0.31]	
tri	8x*	100	2	0.02 (VR)	0.02 (ML)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (RI)	0.37 (VR)	0.31 (VR)	0.65 (PD)	0.55 (PD)	0.34 (VR)	0.38 (VR)	0.81 (FA)	0.58 (VR)	[0.57,0.59]	0.79 (VR)	[0.78,0.80]	
tri	8x*	100	3	0.26 (ML)	0.03 (ML)	0.01 (ML)	0.07 (ML)	0.01 (LO)	0.04 (MM)	0.07 (LO)	0.20 (LO)	0.40 (ML)	0.14 (MM)	0.20 (RI)	0.30 (LO)	0.20 (RI)	0.46 (ML)	0.07 (LO)	[0.02,0.12]	0.13 (LO)	[0.04,0.22]	
tri	8x*	100	4	0.24 (ML)	0.26 (ML)	0.14 (ML)	0.12 (ML)	0.00 (RI)	0.01 (RI)	0.07 (WE)	0.30 (ML)	0.20 (WE)	0.10 (MM)	0.13 (MM)	0.40 (ML)	0.40 (LO)	0.49 (ML)	0.09 (MM)	[0.08,0.10]	0.20 (ML)	[0.08,0.31]	
tri	8x*	100	5	0.24 (ML)	0.34 (MM)	0.14 (MM)	0.03 (ML)	0.03 (ML)	0.00 (MM)	0.09 (WE)	0.20 (RI)	0.05 (MM)	0.20 (ML,W10.40 (LO)	0.20 (RI)	0.30 (ML)	0.50 (ML)	0.14 (ML)	[0.08,0.21]	0.18 (ML)	[0.07,0.30]		
tri	8x*	100	10	0.28 (ML)	0.27 (MM)	0.14 (ML)	0.13 (MM)	0.05 (ML)	0.01 (ML)	0.06 (WE)	0.05 (MM)	0.05 (MM)	0.20 (ML,R10.14 (MM)	0.23 (MM)	0.50 (ML)	0.60 (ML)	0.20 (ML)	[0.14,0.26]	0.27 (MM)	[0.23,0.30]		
tri	8x*	100	15	0.34 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.04 (MM)	0.01 (RI)	0.09 (WE)	0.10 (RI)	0.09 (MM)	0.19 (MM)	0.20 (ML)	0.50 (RI)	0.60 (RI)	0.57 (ML)	0.22 (MM)	[0.20,0.23]	0.27 (MM)	[0.24,0.30]	
tri	8x*	100	20	0.31 (MM)	0.31 (MM)	0.11 (ML)	0.14 (MM)	0.05 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML,W10.03 (MM)	0.19 (MM)	0.23 (MM)	0.20 (ML)	0.40 (RI,L0.63 (ML)	0.22 (MM)	0.27 (MM)	[0.20,0.24]	0.27 (MM)	[0.24,0.31]		

Population			RMSE								IC								CCC							
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGH	UR	PO	FS	HS	GPGO	UN	GUGH	UR	Farthing	IC	IAC	IC					
tri	8x*	500	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (RI)	0.68 (VR)	0.58 (VR)	0.75 (VR)	0.71 (VR)	0.65 (VR)	0.74 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]					
tri	8x*	500	3	0.26 (ML)	0.01 (ML)	0.06 (ML)	0.12 (ML)	0.00 (LO)	0.02 (MM)	0.08 (LO)	0.20 (ML), R10.50 (ML)	0.12 (MM)	0.12 (MM)	0.30 (LO)	0.21 (MM)	0.45 (ML)	0.07 (MM)	[0.06, 0.08]	0.18 (LO)	[0.09, 0.27]						
tri	8x*	500	4	0.24 (ML)	0.28 (ML)	0.15 (ML)	0.07 (ML)	0.01 (ML)	0.03 (LO)	0.07 (WE)	0.20 (ML), L10.10 (ML), R10.20 (WE)	0.20 (MM)	0.20 (MM)	0.40 (ML)	0.40 (LO)	0.51 (ML)	0.10 (MM)	[0.08, 0.11]	0.19 (ML)	[0.07, 0.30]						
tri	8x*	500	5	0.26 (ML)	0.34 (MM)	0.14 (MM)	0.02 (ML)	0.05 (ML)	0.01 (MM)	0.09 (LO)	0.10 (RI)	0.05 (MM)	0.20 (ML)	0.30 (RI)	0.20 (RI)	0.40 (RI)	0.50 (ML)	0.14 (ML)	[0.08, 0.21]	0.18 (MM)	[0.14, 0.21]					
tri	8x*	500	10	0.28 (ML)	0.26 (MM)	0.14 (MM)	0.14 (MM)	0.05 (ML)	0.01 (MM)	0.06 (WE)	0.04 (MM)	0.08 (MM)	0.20 (ML), W10.10 (ML), R10.29 (MM)	0.32 (MM)	0.60 (ML)	0.20 (ML)	[0.14, 0.25]	0.27 (MM)	[0.24, 0.30]							
tri	8x*	500	15	0.33 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.04 (MM)	0.00 (RI)	0.09 (WE)	0.03 (MM)	0.04 (MM)	0.17 (MM)	0.20 (ML)	0.40 (ML), W10.60 (RI)	0.57 (ML)	0.22 (MM)	[0.20, 0.24]	0.27 (MM)	[0.24, 0.31]						
tri	8x*	500	20	0.31 (MM)	0.31 (MM)	0.09 (ML)	0.13 (MM)	0.04 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML), R10.02 (MM)	0.30 (WE)	0.23 (MM)	0.20 (ML)	0.40 (ML), R10.64 (ML)	0.23 (MM)	[0.21, 0.25]	0.29 (MM)	[0.25, 0.32]							
tri	8x*	1000	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.02 (RI)	0.84 (VR)	0.74 (VR)	0.88 (VR)	0.88 (VR)	0.89 (VR)	0.81 (VR)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]					
tri	8x*	1000	3	0.25 (ML)	0.05 (ML)	0.03 (ML)	0.10 (ML)	0.00 (LO)	0.04 (MM)	0.08 (LO)	0.30 (ML)	0.50 (ML)	0.11 (MM)	0.12 (MM)	0.20 (RI), L10.30 (LO)	0.46 (ML)	0.07 (LO)	[0.02, 0.12]	0.17 (LO)	[0.08, 0.26]						
tri	8x*	1000	4	0.27 (ML)	0.27 (ML)	0.15 (ML)	0.09 (ML)	0.02 (RI)	0.03 (LO)	0.07 (WE)	0.20 (LO), W10.10 (ML), R10.07 (MM)	0.21 (MM)	0.50 (ML), R10.30 (ML)	0.51 (ML)	0.10 (MM)	[0.09, 0.12]	0.20 (ML)	[0.08, 0.31]								
tri	8x*	1000	5	0.25 (ML)	0.34 (MM)	0.14 (MM)	0.03 (ML)	0.04 (ML)	0.01 (MM)	0.09 (LO)	0.20 (ML)	0.03 (MM)	0.16 (MM)	0.40 (RI)	0.20 (RI)	0.30 (RI)	0.49 (ML)	0.15 (ML)	[0.09, 0.22]	0.19 (ML)	[0.07, 0.30]					
tri	8x*	1000	10	0.28 (ML)	0.26 (MM)	0.15 (MM)	0.13 (MM)	0.05 (ML)	0.01 (MM)	0.06 (WE)	0.04 (MM)	0.10 (MM)	0.20 (ML), W10.10 (RI), L10.32 (MM)	0.32 (MM)	0.61 (ML)	0.20 (ML)	[0.14, 0.26]	0.27 (MM)	[0.24, 0.31]							
tri	8x*	1000	15	0.33 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (ML)	0.01 (RI)	0.09 (WE)	0.03 (MM)	0.05 (MM)	0.14 (MM)	0.20 (ML)	0.50 (ML)	0.50 (WE)	0.57 (ML)	0.22 (MM)	[0.20, 0.24]	0.27 (MM)	[0.24, 0.31]					
tri	8x*	1000	20	0.31 (MM)	0.31 (MM)	0.10 (ML)	0.13 (MM)	0.04 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML), W10.03 (MM)	0.30 (LO), W10.25 (MM)	0.17 (MM)	0.40 (ML), L10.65 (ML)	0.23 (MM)	[0.21, 0.25]	0.29 (MM)	[0.25, 0.32]								
t1:3	2x	5	2	0.00 (RI)	0.03 (ML)	0.05 (PD)	0.03 (MM)	0.02 (PD)	0.01 (MM)	0.05 (RI)	0.20 (ML), L10.24 (ML)	0.11 (PD)	0.20 (LO)	0.10 (ML), R10.21 (ML)	0.47 (ML)	0.13 (ML)	[0.11, 0.14]	0.18 (LO)	[0.12, 0.24]							
t1:3	2x	10	2	0.01 (ML)	0.00 (ML)	0.01 (MM)	0.01 (RI)	0.01 (MM)	0.00 (VR)	0.01 (WE)	0.37 (ML)	0.15 (ML)	0.30 (LO)	0.20 (LO)	0.17 (PD)	0.26 (ML)	0.50 (ML)	0.24 (ML)	[0.22, 0.26]	0.33 (LO)	[0.26, 0.40]					
t1:3	2x	15	2	0.01 (ML)	0.00 (VR)	0.01 (WE)	0.00 (PD)	0.02 (PD)	0.00 (PD)	0.06 (RI)	0.39 (ML)	0.30 (RI)	0.17 (ML), P10.30 (LO)	0.20 (LO), P10.29 (ML)	0.52 (ML)	0.33 (ML)	[0.32, 0.35]	0.38 (ML)	[0.35, 0.40]							
t1:3	2x	20	2	0.00 (VR)	0.00 (MM)	0.00 (VR)	0.00 (RI)	0.01 (PD)	0.01 (MM)	0.03 (WE)	0.50 (RI)	0.28 (ML)	0.30 (WE)	0.20 (RI), L10.20 (LO)	0.40 (RI), L10.52 (ML)	0.41 (ML)	[0.39, 0.42]	0.48 (ML)	[0.45, 0.50]							
t1:3	2x	50	2	0.00 (PD)	0.00 (PD)	0.01 (MM)	0.02 (LO)	0.00 (MM)	0.01 (VR)	0.04 (WE)	0.59 (ML)	0.60 (LO)	0.40 (LO)	0.30 (WE)	0.30 (LO), W10.46 (ML)	0.58 (ML)	0.63 (ML)	[0.62, 0.64]	0.73 (ML)	[0.71, 0.74]						
t1:3	2x	100	2	0.00 (PD)	0.00 (ML)	0.00 (WE)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.80 (ML)	0.50 (RI)	0.80 (WE)	0.50 (RI)	0.50 (RI)	0.60 (LO)	0.63 (ML)	0.72 (ML)	[0.71, 0.73]	0.84 (ML)	[0.83, 0.85]					
t1:3	2x	500	2	0.00 (MM)	0.00 (LO)	0.01 (VR)	0.00 (MM)	0.00 (VR)	0.00 (PD)	0.05 (RI)	0.99 (ML)	0.85 (ML)	0.90 (LO)	0.90 (RI)	0.90 (LO)	0.81 (ML)	0.79 (ML)	0.90 (RI)	[0.89, 0.91]	0.96 (ML)	[0.96, 0.96]					
t1:3	2x	1000	2	0.00 (VR)	0.00 (ML)	0.00 (PD)	0.01 (ML)	0.00 (VR)	0.00 (VR)	0.06 (RI)	1.00 (LO)	0.91 (ML)	1.00 (LO)	0.88 (ML)	0.89 (VR)	0.90 (LO), W10.85 (ML)	0.94 (RI)	[0.93, 0.95]	0.97 (ML)	[0.97, 0.98]						
t1:3	4x	5	2	0.03 (WE)	0.01 (VR)	0.01 (MM)	0.01 (PD)	0.02 (PD)	0.03 (PD)	0.04 (MM)	0.14 (ML)	0.12 (ML)	0.20 (LO)	0.15 (VR)	0.11 (PD), F10.24 (ML)	0.45 (ML)	0.12 (VR)	[0.11, 0.13]	0.15 (VR)	[0.14, 0.17]						
t1:3	4x	10	2	0.01 (VR)	0.00 (VR)	0.01 (MM)	0.01 (PD)	0.00 (MM)	0.02 (LO)	0.03 (WE)	0.20 (LO)	0.18 (ML)	0.17 (PD)	0.30 (LO)	0.16 (PD)	0.23 (ML), F10.46 (ML)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.27]						
t1:3	4x	15	2	0.04 (VR)	0.01 (VR)	0.01 (VR)	0.03 (ML)	0.01 (VR)	0.00 (MM)	0.01 (WE)	0.13 (ML)	0.15 (ML), W10.22 (PD)	0.20 (PD)	0.21 (PD)	0.20 (ML), L10.48 (ML)	0.25 (VR)	[0.24, 0.26]	0.38 (VR)	[0.35, 0.40]							
t1:3	4x	20	2	0.04 (VR)	0.04 (VR)	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.02 (VR)	0.03 (WE)	0.22 (VR)	0.22 (VR)	0.22 (PD)	0.22 (PD)	0.23 (VR)	0.32 (PD)	0.49 (ML)	0.30 (VR)	[0.29, 0.32]	0.43 (VR)	[0.41, 0.45]					
t1:3	4x	50	2	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (WE)	0.29 (VR)	0.25 (ML)	0.35 (PD)	0.38 (PD)	0.41 (PD)	0.45 (FA)	0.50 (FA)	0.48 (VR)	[0.46, 0.49]	0.64 (VR)	[0.62, 0.66]						
t1:3	4x	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.00 (VR)	0.00 (VR)	0.01 (WE)	0.41 (VR)	0.34 (VR)	0.44 (PD)	0.53 (PD)	0.47 (PD)	0.41 (FA)	0.65 (FA)	0.58 (VR)	[0.57, 0.59]	0.77 (VR)	[0.75, 0.78]					
t1:3	4x	500	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.02 (WE)	0.71 (VR)	0.70 (VR)	0.77 (VR)	0.78 (VR)	0.73 (VR), P10.66 (VR)	0.88 (FA)	0.72 (VR)	[0.71, 0.73]	0.94 (VR)	[0.94, 0.95]						
t1:3	4x	1000	2	0.00 (VR)	0.03 (WE)	0.87 (ML)	0.87 (VR)	0.85 (VR)	0.80 (VR)	0.90 (VR)	0.88 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]										
t1:3	6x	5	2	0.00 (LO)	0.01 (RI)	0.00 (VR)	0.03 (VR)	0.07 (VR)	0.00 (FA)	0.03 (MM)	0.16 (PD)	0.20 (LO)	0.14 (VR)	0.15 (VR)	0.13 (FA)	0.30 (FA)	0.43 (ML)	0.10 (VR)	[0.09, 0.11]	0.13 (FA)	[0.10, 0.16]					
t1:3	6x	10	2	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.01 (ML)	0.01 (LO)	0.02 (WE)	0.02 (RI)	0.28 (PD)	0.30 (RI)	0.20 (LO)	0.17 (VR)	0.30 (LO)	0.23 (FA)	0.44 (ML)	0.18 (VR)	[0.17, 0.19]	0.28 (VR)	[0.26, 0.30]					
t1:3	6x	15	2	0.00 (VR)	0.03 (VR)	0.00 (MM)	0.01 (ML)	0.00 (VR)	0.01 (VR)	0.05 (MM)	0.25 (PD)	0.50 (LO)	0.20 (RI), L10.19 (VR)	0.20 (FA)	0.30 (FA)	0.46 (ML)	0.28 (VR)	[0.26, 0.29]	0.41 (VR)	[0.38, 0.43]						
t1:3	6x	20	2	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.04 (MM)	0.35 (PD)	0.40 (RI), L10.26 (VR)	0.28 (VR)	0.34 (VR)	0.36 (FA)	0.62 (FA)	0.46 (VR)	[0.44, 0.47]	0.62 (VR)	[0.60, 0.65]						

Population			RMSE								IC								CCC			
dist	2n	loci	a1	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
t1:3	6x	100	2	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.03 (RI)	0.38 (VR)	0.38 (VR)	0.34 (VR)	0.36 (VR)	0.37 (VR)	0.48 (FA)	0.75 (FA)	0.57 (VR)	[0.56, 0.58]	0.78 (VR)	[0.77, 0.80]	
t1:3	6x	500	2	0.00 (VR)	0.01 (VR)	0.04 (RI)	0.65 (VR)	0.71 (VR)	0.73 (VR)	0.70 (VR)	0.79 (VR)	0.75 (VR)	0.90 (FA)	0.70 (VR)	[0.69, 0.71]	0.94 (VR)	[0.94, 0.95]					
t1:3	6x	1000	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.88 (VR)	0.89 (VR)	0.88 (VR)	0.85 (VR)	0.83 (VR)	0.90 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.73]	0.97 (VR)	[0.97, 0.97]	
t1:3	8x	5	2	0.00 (PD)	0.00 (VR)	0.05 (VR)	0.01 (LD)	0.00 (VR)	0.01 (LD)	0.03 (MM)	0.10 (ML)	0.11 (PD)	0.30 (LD)	0.20 (LD)	0.20 (FA)	0.24 (FA)	0.47 (MM)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]	
t1:3	8x	10	2	0.00 (VR)	0.01 (PD)	0.02 (VR)	0.04 (VR)	0.04 (VR)	0.01 (WE)	0.03 (MM)	0.20 (PD)	0.20 (PD)	0.17 (VR)	0.17 (VR)	0.19 (FA)	0.29 (FA)	0.40 (FA)	0.18 (VR)	[0.16, 0.19]	0.26 (VR)	[0.24, 0.29]	
t1:3	8x	15	2	0.01 (ML)	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.04 (MM)	0.20 (WE)	0.32 (PD)	0.10 (VR)	0.14 (VR)	0.15 (FA)	0.37 (FA)	0.46 (FA)	0.23 (VR)	[0.22, 0.25]	0.35 (VR)	[0.33, 0.37]	
t1:3	8x	20	2	0.00 (PD)	0.02 (VR)	0.02 (RI)	0.01 (WE)	0.01 (VR)	0.00 (VR)	0.04 (MM)	0.34 (PD)	0.34 (PD)	0.14 (VR)	0.20 (VR)	0.30 (LO)	0.37 (FA)	0.51 (FA)	0.29 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]	
t1:3	8x	50	2	0.02 (PD)	0.00 (PD)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (LD)	0.05 (MM)	0.45 (PD)	0.58 (PD)	0.30 (LO)	0.32 (VR)	0.25 (VR)	0.34 (VR)	0.70 (FA)	0.44 (VR)	[0.43, 0.46]	0.64 (VR)	[0.62, 0.66]	
t1:3	8x	100	2	0.01 (PD)	0.00 (PD)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.02 (RI)	0.70 (PD)	0.75 (PD)	0.39 (VR)	0.37 (VR)	0.25 (VR)	0.39 (VR)	0.82 (FA)	0.56 (VR)	[0.55, 0.57]	0.78 (VR)	[0.76, 0.79]	
t1:3	8x	500	2	0.00 (PD)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.04 (RI)	1.00 (PD)	0.92 (PD)	0.76 (VR)	0.69 (VR)	0.76 (VR)	0.79 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.71]	0.95 (VR)	[0.94, 0.95]	
t1:3	8x	1000	2	0.00 (PD)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.02 (RI)	1.00 (PD)	0.95 (PD)	0.86 (VR)	0.83 (VR)	0.93 (VR)	0.89 (VR)	0.90 (FA)	0.72 (VR)	[0.72, 0.73]	0.97 (VR)	[0.97, 0.97]	
t1:3	4x*	5	2	0.02 (ML)	0.02 (VR)	0.02 (VR)	0.01 (PD)	0.00 (VR)	0.01 (PD)	0.01 (WE)	0.10 (VR)	0.18 (PD)	0.15 (ML)	0.30 (LO)	0.30 (LO)	0.20 (LO)	0.42 (ML)	0.11 (VR)	[0.10, 0.12]	0.16 (FA)	[0.13, 0.19]	
t1:3	4x*	10	2	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (PD)	0.06 (MM)	0.14 (ML)	0.21 (ML)	0.13 (ML)	0.40 (LO)	0.20 (FA)	0.29 (FA)	0.45 (ML)	0.20 (VR)	[0.18, 0.21]	0.23 (VR)	[0.21, 0.26]	
t1:3	4x*	15	2	0.02 (VR)	0.01 (VR)	0.04 (VR)	0.01 (LO)	0.06 (PD)	0.01 (MM)	0.08 (MM)	0.19 (VR)	0.16 (VR)	0.30 (LO)	0.15 (PD)	0.25 (FA)	0.31 (FA)	0.47 (ML)	0.26 (VR)	[0.25, 0.27]	0.39 (VR)	[0.37, 0.42]	
t1:3	4x*	20	2	0.01 (VR)	0.01 (VR)	0.04 (VR)	0.02 (ML)	0.01 (VR)	0.00 (MM)	0.07 (MM)	0.40 (LO)	0.20 (PD)	0.30 (LO)	0.30 (LO)	0.28 (PD)	0.24 (FA)	0.48 (ML)	0.29 (VR)	[0.27, 0.30]	0.41 (VR)	[0.39, 0.43]	
t1:3	4x*	50	2	0.01 (VR)	0.00 (MM)	0.08 (MM)	0.20 (VR)	0.25 (VR)	0.29 (VR)	0.27 (PD)	0.48 (PD)	0.39 (FA)	0.50 (FA)	0.47 (VR)	[0.46, 0.49]	0.64 (VR)	[0.62, 0.66]					
t1:3	4x*	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.08 (MM)	0.41 (VR)	0.31 (ML)	0.44 (PD)	0.41 (PD)	0.49 (PD)	0.51 (PD)	0.65 (FA)	0.57 (VR)	[0.56, 0.58]	0.79 (VR)	[0.77, 0.80]	
t1:3	4x*	500	2	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.09 (MM)	0.69 (VR)	0.72 (VR)	0.74 (VR)	0.73 (VR)	0.71 (PD)	0.62 (VR)	0.88 (FA)	0.71 (VR)	[0.71, 0.72]	0.95 (VR)	[0.94, 0.95]	
t1:3	4x*	1000	2	0.00 (VR)	0.09 (MM)	0.74 (VR)	0.84 (VR)	0.87 (VR)	0.86 (VR)	0.86 (PD)	0.81 (VR)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]						
t1:3	6x*	5	2	0.06 (ML)	0.01 (VR)	0.03 (VR)	0.06 (ML)	0.04 (VR)	0.00 (MM)	0.01 (WE)	0.14 (PD)	0.20 (LO)	0.10 (FA)	0.13 (FA)	0.16 (PD)	0.26 (FA)	0.43 (ML)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.14, 0.17]	
t1:3	6x*	10	2	0.04 (VR)	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.00 (LO)	0.02 (RI)	0.03 (RI)	0.17 (ML)	0.27 (PD)	0.30 (LO)	0.13 (VR)	0.21 (FA)	0.35 (FA)	0.46 (ML)	0.18 (VR)	[0.17, 0.19]	0.27 (VR)	[0.24, 0.29]	
t1:3	6x*	15	2	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.03 (ML)	0.01 (VR)	0.00 (MM)	0.03 (RI)	0.21 (PD)	0.22 (PD)	0.22 (PD)	0.19 (PD)	0.40 (RI)	0.36 (FA)	0.46 (ML)	0.24 (VR)	[0.22, 0.25]	0.33 (VR)	[0.30, 0.35]	
t1:3	6x*	20	2	0.01 (WE)	0.04 (VR)	0.01 (VR)	0.00 (ML)	0.04 (VR)	0.03 (LO)	0.03 (WE)	0.30 (LO)	0.24 (PD)	0.20 (RI)	0.26 (PD)	0.17 (VR)	0.34 (FA)	0.46 (ML)	0.29 (VR)	[0.27, 0.30]	0.41 (VR)	[0.39, 0.44]	
t1:3	6x*	50	2	0.01 (VR)	0.01 (VR)	0.03 (VR)	0.01 (ML)	0.01 (VR)	0.01 (VR)	0.04 (RI)	0.27 (VR)	0.25 (VR)	0.28 (VR)	0.24 (VR)	0.23 (VR)	0.38 (FA)	0.61 (FA)	0.47 (VR)	[0.45, 0.48]	0.63 (VR)	[0.61, 0.65]	
t1:3	6x*	100	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.04 (RI)	0.34 (VR)	0.34 (VR)	0.36 (VR)	0.39 (VR)	0.37 (VR)	0.45 (VR)	0.76 (FA)	0.56 (VR)	[0.55, 0.57]	0.75 (VR)	[0.74, 0.77]	
t1:3	6x*	500	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.70 (VR)	0.66 (VR)	0.68 (VR)	0.76 (VR)	0.69 (VR)	0.79 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]	
t1:3	6x*	1000	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.82 (VR)	0.86 (VR)	0.96 (VR)	0.87 (VR)	0.93 (VR)	0.83 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.96, 0.97]	
t1:3	8x*	5	2	0.01 (PD)	0.02 (PD)	0.03 (ML)	0.01 (ML)	0.01 (VR)	0.07 (FA)	0.04 (MM)	0.11 (PD)	0.14 (PD)	0.30 (ML)	0.14 (VR)	0.20 (FA)	0.23 (FA)	0.45 (MM)	0.12 (VR)	[0.11, 0.13]	0.13 (VR)	[0.11, 0.15]	
t1:3	8x*	10	2	0.00 (PD)	0.00 (PD)	0.01 (VR)	0.01 (ML)	0.01 (ML)	0.02 (VR)	0.04 (MM)	0.22 (PD)	0.29 (PD)	0.21 (VR)	0.12 (VR)	0.17 (VR)	0.30 (FA)	0.41 (FA)	0.18 (VR)	[0.17, 0.19]	0.26 (VR)	[0.24, 0.29]	
t1:3	8x*	15	2	0.01 (VR)	0.01 (PD)	0.02 (LO)	0.00 (VR)	0.04 (VR)	0.05 (MM)	0.26 (PD)	0.25 (PD)	0.10 (VR)	0.15 (VR)	0.18 (VR)	0.32 (FA)	0.47 (FA)	0.24 (VR)	[0.23, 0.26]	0.34 (VR)	[0.31, 0.36]		
t1:3	8x*	20	2	0.01 (ML)	0.01 (PD)	0.01 (WE)	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.05 (MM)	0.41 (PD)	0.33 (PD)	0.16 (VR)	0.14 (VR)	0.18 (VR)	0.31 (FA)	0.51 (FA)	0.28 (VR)	[0.27, 0.29]	0.43 (VR)	[0.41, 0.45]	
t1:3	8x*	50	2	0.00 (PD)	0.01 (PD)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.02 (VR)	0.05 (MM)	0.54 (PD)	0.48 (PD)	0.17 (VR)	0.36 (VR)	0.32 (VR)	0.38 (FA)	0.71 (FA)	0.45 (VR)	[0.43, 0.46]	0.64 (VR)	[0.62, 0.66]	
t1:3	8x*	100	2	0.00 (VR)	0.01 (PD)	0.01 (WE)	0.02 (VR)	0.00 (VR)	0.02 (VR)	0.01 (RI)	0.67 (PD)	0.60 (PD)	0.34 (VR)	0.38 (VR)	0.34 (VR)	0.40 (VR)	0.82 (FA)	0.59 (VR)	[0.58, 0.60]	0.77 (VR)	[0.76, 0.78]	
t1:3	8x*	500	2	0.00 (VR)	0.00 (PD)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.02 (RI)	0.91 (PD)	0.90 (PD)	0.69 (VR)	0.66 (VR)	0.70 (VR)	0.69 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.72]	0.94 (VR)	[0.94, 0.95]		
t1:3	8x*	1000	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (RI)	0.02 (RI)	1.00 (PD)	0.94 (PD)	0.78 (VR)	0.87 (VR)	0.90 (VR)	0.86 (VR)	0.90 (FA)	0.73 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]	

Population			RMSE								IC								CCC			
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
t1:4	2x	5	2	0.02 (ML)	0.01 (ML)	0.01 (LO)	0.00 (WE)	0.03 (MM)	0.00 (MM)	0.07 (RI)	0.50 (RI)	0.40 (RI)	0.10 (RI,LO)	0.10 (LO,WE)	0.20 (LO)	0.24 (ML)	0.49 (ML)	0.12 (ML)	[0.11, 0.14]	0.17 (ML)	[0.14, 0.19]	
t1:4	2x	10	2	0.00 (WE)	0.02 (ML)	0.04 (MM)	0.00 (WE)	0.01 (PD)	0.01 (VR)	0.04 (RI)	0.27 (ML)	0.30 (RI)	0.14 (VR)	0.14 (PD)	0.30 (WE)	0.28 (ML)	0.53 (ML)	0.25 (ML)	[0.24, 0.27]	0.32 (ML)	[0.29, 0.35]	
t1:4	2x	15	2	0.00 (VR)	0.01 (PD)	0.03 (ML)	0.01 (ML)	0.03 (WE)	0.00 (RI)	0.07 (WE)	0.39 (ML)	0.30 (RI,LO)	0.21 (VR)	0.20 (LO,WE)	0.20 (RI,PD)	0.32 (ML)	0.52 (ML)	0.32 (ML)	[0.30, 0.33]	0.41 (ML)	[0.38, 0.43]	
t1:4	2x	20	2	0.00 (ML)	0.00 (ML)	0.01 (WE)	0.00 (RI)	0.01 (VR)	0.00 (VR)	0.05 (WE)	0.48 (ML)	0.23 (ML)	0.20 (LO)	0.17 (PD)	0.26 (VR)	0.41 (ML)	0.54 (ML)	0.39 (ML)	[0.38, 0.41]	0.47 (ML)	[0.45, 0.50]	
t1:4	2x	50	2	0.01 (WE)	0.00 (LO)	0.00 (ML)	0.00 (PD)	0.00 (LO)	0.01 (PD)	0.04 (WE)	0.60 (ML)	0.30 (RI)	0.31 (MM)	0.33 (PD)	0.30 (RI)	0.50 (LO)	0.59 (ML)	0.63 (ML)	[0.62, 0.64]	0.72 (ML)	[0.70, 0.74]	
t1:4	2x	100	2	0.00 (MM)	0.01 (MM)	0.00 (MM)	0.00 (VR)	0.01 (MM)	0.00 (PD)	0.04 (WE)	0.73 (ML)	0.49 (ML)	0.50 (LO)	0.36 (ML)	0.50 (LO)	0.46 (ML)	0.62 (ML)	0.72 (ML)	[0.71, 0.73]	0.86 (ML)	[0.85, 0.87]	
t1:4	2x	500	2	0.00 (RI)	0.00 (ML)	0.00 (VR)	0.00 (ML)	0.00 (ML)	0.00 (PD)	0.06 (WE)	0.95 (ML)	0.78 (ML)	0.80 (LO)	0.76 (ML)	0.80 (LO)	0.90 (LO)	0.79 (ML)	0.90 (RI)	[0.88, 0.91]	0.96 (ML)	[0.95, 0.96]	
t1:4	2x	1000	2	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (PD)	0.00 (VR)	0.06 (RI)	0.99 (ML)	0.94 (ML)	0.90 (LO)	0.93 (ML)	0.90 (LO)	0.91 (ML)	0.85 (ML)	0.95 (RI)	[0.94, 0.96]	0.97 (ML)	[0.97, 0.98]		
t1:4	4x	5	2	0.01 (PD)	0.02 (LO)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.07 (WE)	0.20 (LO)	0.13 (PD)	0.20 (LO)	0.12 (VR,PD)	0.14 (FA)	0.16 (FA)	0.44 (ML)	0.12 (FA)	[0.10, 0.13]	0.20 (FA)	[0.17, 0.23]	
t1:4	4x	10	2	0.04 (LO)	0.00 (VR)	0.01 (PD)	0.00 (PD)	0.04 (VR)	0.04 (MM)	0.07 (WE)	0.18 (PD)	0.20 (VR)	0.15 (ML)	0.12 (ML)	0.19 (VR,PD)	0.25 (FA)	0.45 (ML)	0.17 (VR)	[0.16, 0.19]	0.27 (VR)	[0.25, 0.29]	
t1:4	4x	15	2	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.00 (PD)	0.05 (VR)	0.03 (VR)	0.04 (WE)	0.21 (PD)	0.17 (VR)	0.17 (PD)	0.18 (PD)	0.22 (FA)	0.25 (FA)	0.46 (ML)	0.25 (VR)	[0.23, 0.26]	0.34 (VR)	[0.32, 0.37]	
t1:4	4x	20	2	0.00 (VR)	0.02 (LO)	0.01 (PD)	0.00 (PD)	0.02 (VR)	0.01 (LO)	0.06 (WE)	0.21 (PD)	0.20 (ML)	0.21 (VR)	0.17 (PD)	0.18 (VR)	0.29 (FA)	0.46 (ML)	0.28 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]	
t1:4	4x	50	2	0.01 (VR)	0.01 (LO)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.09 (VR)	0.50 (LO)	0.26 (ML)	0.34 (VR)	0.26 (PD)	0.31 (VR)	0.40 (FA)	0.52 (FA)	0.47 (VR)	[0.46, 0.48]	0.63 (VR)	[0.61, 0.65]	
t1:4	4x	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.10 (VR)	0.43 (VR)	0.36 (PD)	0.35 (PD)	0.44 (PD)	0.38 (VR)	0.38 (FA)	0.66 (FA)	0.58 (VR)	[0.56, 0.59]	0.76 (VR)	[0.75, 0.78]	
t1:4	4x	500	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (MM)	0.10 (VR)	0.69 (VR)	0.67 (VR)	0.74 (VR)	0.68 (VR)	0.71 (VR)	0.76 (VR)	0.88 (FA)	0.74 (PD)	[0.74, 0.75]	0.94 (VR)	[0.94, 0.95]	
t1:4	4x	1000	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.09 (WE)	0.83 (VR)	0.84 (VR)	0.84 (VR)	0.86 (VR)	0.87 (VR)	0.87 (VR)	0.90 (FA)	0.77 (PD)	[0.76, 0.77]	0.97 (VR)	[0.97, 0.97]	
t1:4	6x	5	2	0.04 (VR)	0.04 (VR)	0.05 (VR)	0.02 (VR)	0.01 (VR)	0.03 (VR)	0.04 (WE)	0.13 (PD)	0.10 (LO)	0.10 (WE)	0.12 (FA)	0.14 (FA)	0.30 (LO)	0.27 (FA)	0.42 (ML)	0.11 (FA)	[0.09, 0.12]	0.15 (VR)	[0.13, 0.17]
t1:4	6x	10	2	0.03 (VR)	0.03 (VR)	0.01 (VR)	0.01 (LO)	0.00 (LO)	0.04 (VR)	0.00 (WE)	0.12 (PD)	0.20 (LO)	0.15 (VR)	0.20 (LO)	0.28 (FA)	0.30 (LO)	0.45 (ML)	0.18 (VR)	[0.17, 0.20]	0.24 (VR)	[0.22, 0.27]	
t1:4	6x	15	2	0.02 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.06 (MM)	0.16 (VR)	0.18 (PD)	0.30 (LO)	0.11 (PD)	0.30 (LO)	0.32 (FA)	0.47 (ML)	0.24 (VR)	[0.23, 0.26]	0.33 (VR)	[0.31, 0.36]	
t1:4	6x	20	2	0.06 (VR)	0.01 (VR)	0.02 (LO)	0.01 (VR)	0.02 (VR)	0.03 (LO)	0.03 (WE)	0.19 (VR)	0.20 (LO)	0.23 (VR)	0.20 (LO)	0.24 (FA)	0.33 (FA)	0.46 (ML)	0.28 (VR)	[0.27, 0.30]	0.40 (VR)	[0.37, 0.42]	
t1:4	6x	50	2	0.01 (VR)	0.03 (RI)	0.00 (WE)	0.00 (LO)	0.01 (LO)	0.01 (VR)	0.06 (RI)	0.27 (VR)	0.22 (PD)	0.27 (VR)	0.30 (VR)	0.30 (VR)	0.31 (FA)	0.62 (FA)	0.46 (VR)	[0.45, 0.47]	0.64 (VR)	[0.62, 0.66]	
t1:4	6x	100	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.04 (WE)	0.33 (VR)	0.31 (VR)	0.41 (VR)	0.35 (VR)	0.39 (VR)	0.40 (FA)	0.77 (FA)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.76, 0.79]	
t1:4	6x	500	2	0.00 (VR)	0.00 (VR)	0.00 (RI)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.02 (RI)	0.68 (VR)	0.61 (VR)	0.79 (VR)	0.77 (VR)	0.86 (VR)	0.79 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.94]	
t1:4	6x	1000	2	0.01 (VR)	0.00 (VR)	0.03 (RI)	0.83 (VR)	0.81 (VR)	0.84 (VR)	0.81 (VR)	0.87 (VR)	0.86 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.96, 0.97]					
t1:4	8x	5	2	0.03 (VR)	0.01 (VR)	0.08 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.04 (MM)	0.20 (LO)	0.13 (VR)	0.20 (RI)	0.20 (LO)	0.20 (FA)	0.27 (FA)	0.35 (ML)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]	
t1:4	8x	10	2	0.03 (ML)	0.01 (VR)	0.03 (VR)	0.05 (VR)	0.00 (RI)	0.03 (VR)	0.03 (RI)	0.07 (PD)	0.20 (LO)	0.20 (RI)	0.12 (VR)	0.15 (FA)	0.36 (FA)	0.38 (FA)	0.17 (VR)	[0.16, 0.19]	0.28 (VR)	[0.26, 0.30]	
t1:4	8x	15	2	0.03 (VR)	0.00 (ML)	0.03 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.03 (RI)	0.20 (ML)	0.20 (RI)	0.17 (VR)	0.20 (LO)	0.31 (FA)	0.47 (FA)	0.23 (VR)	[0.22, 0.25]	0.36 (VR)	[0.33, 0.38]		
t1:4	8x	20	2	0.01 (ML)	0.01 (VR)	0.02 (VR)	0.01 (RI)	0.03 (VR)	0.01 (RI)	0.03 (RI)	0.21 (VR)	0.20 (VR)	0.18 (VR)	0.20 (LO)	0.19 (VR)	0.22 (FA)	0.52 (FA)	0.27 (VR)	[0.26, 0.29]	0.41 (VR)	[0.39, 0.43]	
t1:4	8x	50	2	0.02 (VR)	0.00 (VR)	0.03 (VR)	0.02 (VR)	0.01 (VR)	0.01 (LO)	0.02 (RI)	0.25 (VR)	0.29 (VR)	0.27 (VR)	0.24 (VR)	0.29 (VR)	0.32 (FA)	0.72 (FA)	0.45 (VR)	[0.44, 0.47]	0.65 (VR)	[0.63, 0.67]	
t1:4	8x	100	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (RI)	0.40 (LO)	0.31 (VR)	0.38 (VR)	0.37 (VR)	0.33 (VR)	0.35 (FA)	0.83 (FA)	0.57 (VR)	[0.56, 0.58]	0.77 (VR)	[0.76, 0.79]	
t1:4	8x	500	2	0.00 (VR)	0.02 (RI)	0.69 (VR)	0.67 (VR)	0.60 (VR)	0.74 (VR)	0.67 (VR)	0.78 (VR)	0.90 (FA)	0.70 (VR)	[0.69, 0.71]	0.94 (VR)	[0.94, 0.95]						
t1:4	8x	1000	2	0.00 (VR)	0.02 (RI)	0.87 (VR)	0.84 (VR)	0.94 (VR)	0.89 (VR)	0.90 (VR)	0.86 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.73]	0.97 (VR)	[0.97, 0.97]						
t1:4	4x*	5	2	0.01 (VR)	0.04 (VR)	0.00 (MM)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.07 (MM)	0.20 (LO)	0.12 (PD)	0.10 (ML)	0.16 (ML)	0.20 (LO)	0.16 (FA)	0.45 (ML)	0.09 (FA)	[0.08, 0.11]	0.18 (FA)	[0.15, 0.21]	
t1:4	4x*	10	2	0.01 (LO)	0.07 (VR)	0.01 (PD)	0.00 (PD)	0.02 (VR)	0.00 (VR)	0.05 (MM)	0.18 (ML)	0.20 (LO)	0.15 (PD)	0.15 (ML)	0.18 (FA)	0.32 (FA)	0.47 (ML)	0.18 (VR)	[0.17, 0.19]	0.26 (VR)	[0.23, 0.28]	
t1:4	4x*	15	2	0.02 (RI)	0.09 (PD)	0.01 (MM)	0.00 (PD)	0.00 (RI)	0.01 (VR)	0.04 (MM)	0.25 (ML)	0.19 (PD)	0.20 (LO)	0.16 (LO)	0.33 (FA)	0.49 (ML)	0.23 (VR)	[0.22, 0.24]	0.33 (VR)	[0.31, 0.36]		

Population			RMSE						IC						CCC							
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
t1:4	4x*	20	2	0.01 (VR)	0.02 (PD)	0.01 (MM)	0.00 (PD)	0.03 (LO)	0.00 (MM)	0.06 (MM)	0.18 (PD)	0.18 (PD)	0.30 (LO)	0.19 (PD)	0.29 (FA)	0.31 (FA)	0.49 (ML)	0.30 (VR)	[0.28, 0.31]	0.43 (VR)	[0.40, 0.45]	
t1:4	4x*	50	2	0.01 (VR)	0.01 (VR)	0.01 (MM)	0.01 (ML)	0.02 (VR)	0.01 (VR)	0.07 (MM)	0.26 (VR)	0.30 (ML)	0.40 (PD)	0.60 (LO)	0.30 (PD)	0.37 (FA)	0.52 (FA)	0.45 (VR)	[0.43, 0.46]	0.62 (VR)	[0.60, 0.65]	
t1:4	4x*	100	2	0.01 (VR)	0.00 (WE)	0.00 (PD)	0.00 (VR)	0.01 (VR)	0.01 (MM)	0.07 (MM)	0.31 (VR)	0.43 (PD)	0.42 (PD)	0.39 (PD)	0.37 (VR)	0.38 (VR)	0.65 (FA)	0.56 (VR)	[0.55, 0.57]	0.77 (VR)	[0.76, 0.79]	
t1:4	4x*	500	2	0.00 (VR)	0.00 (WE)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.08 (MM)	0.60 (VR)	0.59 (VR)	0.77 (PD)	0.66 (VR)	0.63 (VR)	0.69 (VR)	0.88 (FA)	0.73 (PD)	[0.72, 0.73]	0.94 (VR)	[0.94, 0.95]	
t1:4	4x*	1000	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.06 (RI)	0.85 (VR)	0.80 (VR)	0.93 (PD)	0.87 (PD)	0.84 (VR)	0.85 (VR)	0.90 (FA)	0.74 (PD)	[0.73, 0.75]	0.97 (VR)	[0.96, 0.97]	
t1:4	6x*	5	2	0.01 (VR)	0.02 (WE)	0.01 (VR)	0.03 (VR)	0.01 (VR)	0.02 (VR)	0.07 (LO)	0.19 (ML)	0.18 (PD)	0.15 (VR)	0.11 (VR)	0.19 (FA)	0.28 (FA)	0.42 (ML)	0.11 (FA)	[0.10, 0.13]	0.17 (VR)	[0.15, 0.19]	
t1:4	6x*	10	2	0.04 (PD)	0.04 (VR)	0.03 (VR)	0.00 (VR)	0.00 (LO)	0.06 (VR)	0.05 (RI)	0.20 (LO)	0.14 (ML)	0.12 (VR)	0.20 (LO)	0.23 (FA)	0.28 (FA)	0.45 (ML)	0.18 (VR)	[0.17, 0.19]	0.25 (VR)	[0.23, 0.27]	
t1:4	6x*	15	2	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.03 (VR)	0.04 (FA)	0.07 (MM)	0.17 (PD)	0.13 (VR)	0.17 (VR)	0.20 (LO)	0.16 (FA)	0.38 (FA)	0.45 (ML)	0.24 (VR)	[0.23, 0.26]	0.32 (VR)	[0.29, 0.34]	
t1:4	6x*	20	2	0.01 (VR)	0.04 (VR)	0.02 (LO)	0.03 (ML)	0.02 (VR)	0.03 (VR)	0.07 (MM)	0.30 (LO)	0.19 (PD)	0.22 (VR)	0.17 (VR)	0.18 (FA)	0.34 (FA)	0.46 (ML)	0.29 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]	
t1:4	6x*	50	2	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.02 (VR)	0.03 (RI)	0.27 (PD)	0.32 (PD)	0.26 (VR)	0.30 (LO)	0.21 (VR)	0.40 (FA)	0.63 (FA)	0.46 (VR)	[0.45, 0.48]	0.65 (VR)	[0.63, 0.67]	
t1:4	6x*	100	2	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.07 (MM)	0.42 (VR)	0.40 (LO)	0.31 (VR)	0.34 (VR)	0.49 (VR)	0.76 (FA)	0.57 (VR)	[0.56, 0.58]	0.77 (VR)	[0.75, 0.78]		
t1:4	6x*	500	2	0.00 (VR)	0.00 (VR)	0.01 (LO)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.07 (MM)	0.75 (VR)	0.64 (VR)	0.71 (VR)	0.80 (VR)	0.73 (VR)	0.74 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]	
t1:4	6x*	1000	2	0.00 (VR)	0.07 (MM)	0.83 (VR)	0.83 (VR)	0.89 (VR)	0.85 (VR)	0.87 (VR)	0.89 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.96, 0.97]						
t1:4	8x*	5	2	0.01 (ML)	0.08 (RI)	0.08 (VR)	0.07 (VR)	0.02 (VR)	0.01 (VR)	0.03 (RI)	0.20 (ML)	0.10 (WE)	0.10 (WE)	0.12 (PD)	0.20 (FA)	0.20 (RI)	0.33 (MM)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]	
t1:4	8x*	10	2	0.04 (ML)	0.04 (VR)	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.04 (VR)	0.02 (RI)	0.20 (LO)	0.10 (PD)	0.10 (LO)	0.10 (WE)	0.10 (ML)	0.20 (LO)	0.34 (FA)	0.40 (FA)	0.19 (VR)	[0.18, 0.20]	0.26 (VR)	[0.23, 0.28]
t1:4	8x*	15	2	0.05 (ML)	0.02 (ML)	0.00 (VR)	0.04 (VR)	0.03 (RI)	0.00 (VR)	0.05 (MM)	0.20 (RI)	0.10 (LO)	0.10 (VR)	0.15 (VR)	0.11 (VR)	0.21 (FA)	0.27 (FA)	0.46 (FA)	0.24 (VR)	[0.22, 0.25]	0.35 (VR)	[0.32, 0.37]
t1:4	8x*	20	2	0.02 (VR)	0.03 (ML)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.02 (VR)	0.01 (RI)	0.16 (VR)	0.23 (VR)	0.20 (LO)	0.19 (VR)	0.23 (VR)	0.34 (FA)	0.52 (FA)	0.29 (VR)	[0.27, 0.30]	0.41 (VR)	[0.38, 0.43]	
t1:4	8x*	50	2	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.06 (MM)	0.30 (LO)	0.40 (ML)	0.30 (VR)	0.27 (VR)	0.26 (VR)	0.40 (FA)	0.73 (FA)	0.47 (VR)	[0.46, 0.49]	0.63 (VR)	[0.61, 0.65]	
t1:4	8x*	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.06 (MM)	0.31 (VR)	0.35 (VR)	0.38 (VR)	0.36 (VR)	0.39 (VR)	0.38 (VR)	0.83 (FA)	0.56 (VR)	[0.55, 0.57]	0.78 (VR)	[0.77, 0.79]	
t1:4	8x*	500	2	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.05 (MM)	0.76 (VR)	0.62 (VR)	0.75 (VR)	0.72 (VR)	0.63 (VR)	0.69 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.72]	0.94 (VR)	[0.94, 0.95]	
t1:4	8x*	1000	2	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.06 (MM)	0.77 (VR)	0.81 (VR)	0.85 (VR)	0.81 (VR)	0.88 (VR)	0.89 (VR)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.96, 0.97]	
t1:9	2x	5	2	0.00 (MM)	0.04 (RI)	0.06 (WE)	0.04 (MM)	0.04 (PD)	0.02 (VR)	0.01 (RI)	0.17 (ML)	0.11 (ML)	0.10 (LO)	0.20 (LO)	0.10 (RI)	0.30 (ML)	0.53 (ML)	0.10 (LO)	[0.07, 0.13]	0.13 (LO)	[0.07, 0.20]	
t1:9	2x	10	2	0.05 (PD)	0.00 (ML)	0.01 (LO)	0.01 (VR)	0.02 (PD)	0.00 (VR)	0.03 (WE)	0.27 (ML)	0.20 (LO)	0.11 (VR)	0.20 (RI)	0.10 (LO)	0.30 (ML)	0.56 (ML)	0.17 (PD)	[0.16, 0.18]	0.23 (VR)	[0.21, 0.25]	
t1:9	2x	15	2	0.01 (VR)	0.03 (VR)	0.00 (VR)	0.02 (ML)	0.00 (PD)	0.00 (PD)	0.09 (PD)	0.27 (ML)	0.20 (RI)	0.30 (LO)	0.10 (RI)	0.16 (VR)	0.32 (ML)	0.56 (ML)	0.26 (ML)	[0.25, 0.28]	0.37 (ML)	[0.34, 0.39]	
t1:9	2x	20	2	0.02 (MM)	0.01 (PD)	0.01 (MM)	0.01 (RI)	0.01 (VR)	0.00 (VR)	0.06 (RI)	0.35 (ML)	0.20 (LO)	0.16 (MM)	0.20 (LO)	0.30 (LO)	0.27 (ML)	0.58 (ML)	0.30 (ML)	[0.29, 0.32]	0.40 (ML)	[0.37, 0.43]	
t1:9	2x	50	2	0.02 (ML)	0.00 (LO)	0.01 (ML)	0.00 (ML)	0.00 (LO)	0.00 (MM)	0.02 (WE)	0.27 (ML)	0.25 (ML)	0.30 (RI)	0.30 (LO)	0.30 (LO)	0.37 (ML)	0.60 (ML)	0.57 (ML)	[0.56, 0.59]	0.66 (ML)	[0.64, 0.68]	
t1:9	2x	100	2	0.00 (ML)	0.00 (MM)	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.00 (MM)	0.03 (RI)	0.60 (LO)	0.40 (ML)	0.40 (RI)	0.36 (ML)	0.70 (LO)	0.47 (ML)	0.65 (ML)	0.70 (ML)	[0.69, 0.71]	0.82 (ML)	[0.81, 0.83]	
t1:9	2x	500	2	0.00 (MM)	0.00 (MM)	0.00 (PD)	0.00 (WE)	0.00 (VR)	0.00 (ML)	0.03 (RI)	0.87 (ML)	0.70 (LO)	0.80 (LO)	0.65 (ML)	0.68 (ML)	0.75 (ML)	0.80 (ML)	0.86 (RI)	[0.84, 0.87]	0.95 (ML)	[0.94, 0.95]	
t1:9	2x	1000	2	0.00 (MM)	0.00 (ML)	0.00 (VR)	0.00 (ML)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.96 (ML)	0.87 (ML)	0.85 (ML)	0.87 (ML)	0.87 (VR)	0.91 (ML)	0.86 (ML)	0.92 (RI)	[0.91, 0.93]	0.97 (ML)	[0.97, 0.97]	
t1:9	4x	5	2	0.01 (ML)	0.00 (VR)	0.03 (MM)	0.02 (VR)	0.02 (MM)	0.02 (MM)	0.06 (LO)	0.20 (LO)	0.10 (ML)	0.10 (LO)	0.16 (FA)	0.40 (RI)	0.22 (FA)	0.47 (ML)	0.11 (FA)	[0.09, 0.12]	0.19 (FA)	[0.16, 0.22]	
t1:9	4x	10	2	0.01 (RI)	0.00 (VR)	0.02 (RI)	0.00 (RI)	0.03 (MM)	0.02 (VR)	0.01 (WE)	0.13 (ML)	0.14 (ML)	0.30 (LO)	0.20 (LO)	0.21 (FA)	0.28 (FA)	0.47 (ML)	0.18 (FA)	[0.17, 0.20]	0.29 (FA)	[0.26, 0.32]	
t1:9	4x	15	2	0.01 (RI)	0.05 (VR)	0.02 (RI)	0.04 (ML)	0.03 (LO)	0.03 (VR)	0.02 (RI)	0.16 (ML)	0.13 (ML)	0.20 (LO)	0.20 (LO)	0.19 (VR)	0.33 (FA)	0.48 (ML)	0.21 (VR)	[0.20, 0.22]	0.34 (VR)	[0.31, 0.36]	
t1:9	4x	20	2	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.07 (RI)	0.40 (RI)	0.26 (ML)	0.26 (VR)	0.21 (VR)	0.27 (VR)	0.39 (FA)	0.52 (FA)	0.43 (VR)	[0.42, 0.44]	0.59 (VR)	[0.56, 0.61]	
t1:9	4x	50	2	0.01 (ML)	0.01 (VR)	0.02 (MM)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.07 (RI)	0.42 (VR)	0.32 (MM)	0.30 (LO)	0.40 (LO)	0.45 (FA)	0.66 (FA)	0.56 (PD)	[0.55, 0.58]	0.75 (VR)	[0.73, 0.77]		

Population			RMSE								IC								CCC					
dist	2n	loci	al	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC			
t1:9	4x	500	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.00 (VR)	0.02 (WE)	0.60 (RI)	0.70 (RI)	0.58 (VR)	0.65 (VR)	0.70 (LO,VI0.78 (VR)	0.89 (FA)	0.84 (PD)	[0.84,0.85]	0.94 (VR)	[0.93,0.94]				
t1:9	4x	1000	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (WE)	0.83 (VR)	0.72 (VR)	0.76 (VR)	0.86 (VR)	0.82 (VR)	0.87 (VR)	0.90 (FA)	0.89 (PD)	[0.88,0.89]	0.96 (VR)	[0.96,0.97]			
t1:9	6x	5	2	0.01 (ML)	0.04 (VR)	0.08 (VR)	0.02 (LO)	0.01 (VR)	0.01 (VR)	0.01 (RI)	0.10 (ML,VI0.20 (RI)	0.20 (LO)	0.20 (LO)	0.17 (FA)	0.23 (FA)	0.45 (ML)	0.10 (FA)	[0.09,0.12]	0.18 (FA)	[0.15,0.22]				
t1:9	6x	10	2	0.01 (VR)	0.02 (VR)	0.01 (RI)	0.01 (VR)	0.01 (LO)	0.01 (VR)	0.05 (RI)	0.17 (ML)	0.20 (LO)	0.30 (LO)	0.10 (LO)	0.20 (RI)	0.30 (LO)	0.47 (ML)	0.16 (VR)	[0.15,0.17]	0.26 (FA)	[0.23,0.29]			
t1:9	6x	15	2	0.02 (VR)	0.04 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.05 (RI)	0.15 (ML)	0.15 (VR)	0.16 (VR)	0.15 (VR)	0.20 (LO,F0.34 (FA)	0.47 (ML)	0.22 (VR)	[0.21,0.23]	0.31 (VR)	[0.29,0.34]				
t1:9	6x	20	2	0.02 (VR)	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.05 (MM)	0.30 (RI)	0.20 (LO)	0.25 (VR)	0.20 (RI,LI0.23 (FA)	0.39 (FA)	0.48 (ML)	0.27 (VR)	[0.26,0.28]	0.39 (VR)	[0.37,0.42]				
t1:9	6x	50	2	0.02 (VR)	0.04 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.04 (WE)	0.30 (LO)	0.30 (ML)	0.30 (LO)	0.30 (LO)	0.15 (VR)	0.45 (FA)	0.66 (FA)	0.41 (VR)	[0.39,0.42]	0.63 (VR)	[0.61,0.65]			
t1:9	6x	100	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.05 (RI)	0.30 (VR)	0.41 (ML)	0.29 (VR)	0.31 (VR)	0.44 (VR)	0.53 (FA)	0.79 (FA)	0.57 (VR)	[0.55,0.58]	0.76 (VR)	[0.75,0.78]			
t1:9	6x	500	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.04 (RI)	0.54 (VR)	0.63 (VR)	0.72 (VR)	0.71 (VR)	0.77 (VR)	0.78 (VR)	0.90 (FA)	0.69 (VR)	[0.68,0.70]	0.94 (VR)	[0.93,0.94]			
t1:9	6x	1000	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.83 (VR)	0.71 (VR)	0.81 (VR)	0.89 (VR)	0.89 (VR)	0.92 (VR)	0.90 (FA)	0.72 (VR)	[0.71,0.73]	0.97 (VR)	[0.96,0.97]			
t1:9	8x	5	2	0.00 (ML)	0.00 (VR)	0.03 (VR)	0.03 (VR)	0.02 (VR)	0.00 (VR)	0.07 (RI)	0.20 (LO)	0.09 (VR)	0.20 (LO)	0.20 (RI)	0.29 (FA)	0.42 (ML)	0.09 (VR)	[0.08,0.10]	0.17 (FA)	[0.14,0.20]				
t1:9	8x	10	2	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.00 (LO)	0.04 (RI)	0.09 (VR)	0.17 (VR)	0.13 (VR)	0.15 (VR)	0.17 (FA)	0.32 (FA)	0.43 (FA)	0.17 (VR)	[0.16,0.19]	0.26 (VR)	[0.24,0.29]			
t1:9	8x	15	2	0.01 (VR)	0.04 (VR)	0.03 (WE)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.04 (MM)	0.10 (ML,RI0.15 (VR)	0.12 (VR)	0.20 (LO)	0.20 (FA)	0.34 (FA)	0.51 (FA)	0.21 (VR)	[0.20,0.23]	0.33 (VR)	[0.31,0.35]				
t1:9	8x	20	2	0.01 (VR)	0.02 (ML)	0.01 (ML)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.04 (MM)	0.10 (VR)	0.20 (ML)	0.19 (VR)	0.30 (RI)	0.17 (VR)	0.35 (FA)	0.57 (FA)	0.27 (VR)	[0.26,0.28]	0.40 (VR)	[0.38,0.43]			
t1:9	8x	50	2	0.03 (ML)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.03 (WE)	0.18 (VR)	0.24 (VR)	0.40 (LO)	0.27 (VR)	0.32 (VR)	0.42 (FA)	0.75 (FA)	0.44 (VR)	[0.42,0.45]	0.62 (VR)	[0.60,0.64]			
t1:9	8x	100	2	0.01 (ML)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.24 (VR)	0.26 (VR)	0.35 (VR)	0.33 (VR)	0.33 (VR)	0.39 (FA)	0.85 (FA)	0.58 (VR)	[0.56,0.59]	0.78 (VR)	[0.77,0.79]			
t1:9	8x	500	2	0.00 (VR)	0.06 (MM)	0.66 (VR)	0.66 (VR)	0.67 (VR)	0.71 (VR)	0.76 (VR)	0.70 (VR)	0.90 (FA)	0.70 (VR)	[0.70,0.71]	0.94 (VR)	[0.94,0.95]								
t1:9	8x	1000	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.06 (WE)	0.78 (VR)	0.77 (VR)	0.87 (VR)	0.82 (VR)	0.76 (VR)	0.89 (VR)	0.90 (FA)	0.73 (VR)	[0.72,0.73]	0.97 (VR)	[0.96,0.97]			
t1:9	4x*	5	2	0.01 (VR)	0.07 (VR)	0.07 (ML)	0.01 (VR)	0.04 (VR)	0.04 (VR)	0.09 (LO)	0.20 (LO)	0.20 (RI,LI0.30 (LO)	0.12 (VR)	0.21 (FA)	0.19 (ML)	0.47 (ML)	0.12 (FA)	[0.11,0.14]	0.18 (FA)	[0.15,0.21]				
t1:9	4x*	10	2	0.01 (RI)	0.09 (LO)	0.00 (LO)	0.01 (RI)	0.01 (VR)	0.01 (VR)	0.08 (MM)	0.15 (ML)	0.20 (RI,LI0.20 (LO)	0.18 (VR)	0.25 (FA)	0.22 (ML)	0.47 (ML)	0.18 (FA)	[0.17,0.20]	0.28 (FA)	[0.25,0.31]				
t1:9	4x*	15	2	0.04 (LO)	0.07 (VR)	0.03 (RI)	0.01 (RI)	0.01 (WE)	0.01 (LO)	0.08 (MM)	0.14 (VR)	0.19 (ML)	0.13 (ML,VI0.20 (LO)	0.20 (RI,LI0.30 (RI)	0.49 (ML)	0.22 (VR)	[0.20,0.23]	0.30 (VR)	[0.28,0.33]					
t1:9	4x*	20	2	0.03 (LO)	0.02 (VR)	0.03 (VR)	0.03 (LO)	0.00 (RI)	0.02 (FA)	0.08 (MM)	0.20 (LO)	0.20 (RI)	0.30 (LO)	0.22 (PD)	0.30 (LO)	0.37 (FA)	0.50 (ML)	0.27 (VR)	[0.26,0.28]	0.37 (VR)	[0.35,0.39]			
t1:9	4x*	50	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.01 (LO)	0.08 (MM)	0.30 (RI)	0.30 (RI)	0.30 (LO)	0.26 (VR)	0.30 (RI)	0.41 (FA)	0.53 (FA)	0.44 (PD)	[0.43,0.46]	0.62 (VR)	[0.60,0.64]			
t1:9	4x*	100	2	0.01 (VR)	0.02 (VR)	0.00 (LO)	0.01 (VR)	0.01 (LO)	0.00 (VR)	0.08 (MM)	0.32 (VR)	0.40 (RI)	0.33 (VR)	0.30 (VR)	0.37 (VR)	0.52 (FA)	0.66 (FA)	0.59 (PD)	[0.58,0.61]	0.73 (VR)	[0.72,0.75]			
t1:9	4x*	500	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (ML)	0.00 (VR)	0.00 (VR)	0.08 (MM)	0.53 (VR)	0.56 (VR)	0.70 (LO)	0.65 (VR)	0.71 (VR)	0.64 (VR)	0.88 (FA)	0.84 (PD)	[0.83,0.84]	0.93 (VR)	[0.93,0.94]			
t1:9	4x*	1000	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.08 (MM)	0.70 (VR)	0.70 (VR)	0.76 (VR)	0.82 (VR)	0.84 (VR)	0.90 (FA)	0.89 (PD)	[0.88,0.89]	0.96 (VR)	[0.96,0.97]				
t1:9	6x*	5	2	0.06 (ML)	0.00 (VR)	0.08 (ML)	0.03 (VR)	0.03 (RI)	0.05 (FA)	0.06 (MM)	0.05 (MM,VI0.09 (VR)	0.08 (FA)	0.10 (RI)	0.21 (FA)	0.28 (FA)	0.45 (ML)	0.12 (FA)	[0.10,0.13]	0.16 (FA)	[0.13,0.19]				
t1:9	6x*	10	2	0.00 (VR)	0.03 (VR)	0.00 (LO)	0.01 (ML)	0.01 (VR)	0.00 (MM)	0.06 (MM)	0.12 (ML)	0.14 (VR)	0.20 (LO)	0.09 (VR,F0.22 (FA)	0.25 (FA)	0.46 (ML)	0.17 (VR)	[0.16,0.18]	0.23 (VR)	[0.21,0.25]				
t1:9	6x*	15	2	0.04 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.03 (RI)	0.00 (MM)	0.06 (RI)	0.20 (RI,LI0.16 (VR)	0.11 (VR)	0.13 (VR)	0.30 (LO)	0.37 (FA)	0.48 (ML)	0.24 (VR)	[0.22,0.25]	0.31 (VR)	[0.28,0.33]				
t1:9	6x*	20	2	0.02 (VR)	0.03 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (MM)	0.06 (RI)	0.14 (ML)	0.40 (LO)	0.24 (VR)	0.20 (VR)	0.19 (FA)	0.39 (FA)	0.48 (FA)	0.26 (VR)	[0.25,0.28]	0.37 (VR)	[0.34,0.39]			
t1:9	6x*	50	2	0.02 (VR)	0.03 (VR)	0.02 (LO)	0.01 (ML)	0.01 (VR)	0.01 (MM)	0.01 (RI)	0.19 (VR)	0.21 (ML)	0.22 (VR)	0.18 (VR)	0.49 (FA)	0.66 (FA)	0.45 (VR)	[0.43,0.46]	0.61 (VR)	[0.59,0.63]				
t1:9	6x*	100	2	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.07 (MM)	0.27 (VR)	0.30 (VR)	0.23 (VR)	0.27 (VR)	0.37 (VR)	0.45 (FA)	0.79 (FA)	0.54 (VR)	[0.53,0.55]	0.75 (VR)	[0.73,0.76]			
t1:9	6x*	500	2	0.00 (VR)	0.07 (MM)	0.61 (VR)	0.62 (VR)	0.63 (VR)	0.56 (VR)	0.65 (VR)	0.59 (VR)	0.90 (FA)	0.70 (VR)	[0.69,0.71]	0.94 (VR)	[0.93,0.94]								
t1:9	6x*	1000	2	0.01 (LO)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.07 (RI)	0.80 (VR)	0.75 (VR)	0.78 (VR)	0.84 (VR)	0.87 (VR)	0.92 (VR)	0.90 (FA)	0.73 (VR)	[0.72,0.74]	0.97 (VR)	[0.96,0.97]				
t1:9	8x*	5	2	0.02 (VR)	0.03 (ML)	0.03 (VR)	0.01 (VR)	0.04 (VR)	0.03 (VR)	0.00 (RI)	0.13 (VR)	0.10 (RI)	0.14 (VR)	0.08 (PD)	0.21 (FA)	0.28 (FA)	0.36 (ML)	0.10 (VR)	[0.09,0.11]	0.14 (VR)	[0.12,0.16]			

Population			RMSE								IC								CCC			
dist	2n	loci	a1	PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
t1:9	8x*	10	2	0.03 (VR)	0.00 (WE)	0.00 (VR)	0.00 (VR)	0.04 (VR)	0.00 (VR)	0.03 (MM)	0.10 (RI,LF0.30 (LO)	0.15 (VR)	0.30 (LO)	0.16 (FA)	0.19 (FA)	0.44 (FA)	0.18 (VR)	[0.17,0.19]	0.24 (VR)	[0.22,0.26]		
t1:9	8x*	15	2	0.01 (LO)	0.00 (VR)	0.02 (VR)	0.06 (VR)	0.00 (VR)	0.01 (VR)	0.03 (MM)	0.11 (MM)	0.15 (VR)	0.20 (LO)	0.15 (VR)	0.20 (ML,RL0.33 (FA)	0.51 (FA)	0.23 (VR)	[0.22,0.24]	0.31 (VR)	[0.29,0.34]		
t1:9	8x*	20	2	0.00 (VR)	0.03 (VR)	0.02 (VR)	0.04 (VR)	0.00 (VR)	0.02 (VR)	0.04 (MM)	0.17 (VR)	0.22 (VR)	0.14 (VR)	0.18 (VR)	0.20 (VR)	0.38 (FA)	0.57 (FA)	0.28 (VR)	[0.27,0.29]	0.38 (VR)	[0.36,0.41]	
t1:9	8x*	50	2	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.03 (MM)	0.22 (VR)	0.27 (VR)	0.29 (VR)	0.30 (VR)	0.35 (VR)	0.46 (FA)	0.76 (FA)	0.43 (VR)	[0.42,0.44]	0.61 (VR)	[0.59,0.63]	
t1:9	8x*	100	2	0.01 (ML)	0.01 (VR)	0.03 (VR)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.03 (MM)	0.30 (VR)	0.30 (VR)	0.30 (VR)	0.40 (VR)	0.38 (VR)	0.42 (FA)	0.85 (FA)	0.57 (VR)	[0.56,0.58]	0.76 (VR)	[0.74,0.77]	
t1:9	8x*	500	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.04 (MM)	0.62 (VR)	0.60 (VR)	0.68 (VR)	0.63 (VR)	0.69 (VR)	0.65 (VR)	0.90 (FA)	0.70 (VR)	[0.69,0.71]	0.94 (VR)	[0.93,0.94]	
t1:9	8x*	1000	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.04 (MM)	0.76 (VR)	0.80 (VR)	0.85 (VR)	0.80 (VR)	0.81 (VR)	0.85 (VR)	0.90 (FA)	0.73 (VR)	[0.72,0.73]	0.97 (VR)	[0.96,0.97]	

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	2x	5	2	0.01 (PD)	0.00 (VR)	0.02 (MM)	0.01 (PD)	0.01 (MM)	0.00 (VR)	0.02 (RI)	0.35 (ML)	0.19 (ML)	0.10 (VR,PI0.13 (PD))	0.10 (LO)	0.25 (ML)	0.45 (ML)	0.13 (ML)	[0.12, 0.15]	0.17 (MM)	[0.15, 0.19]	
uni	2x	5	3	0.01 (MM)	0.00 (RI)	0.02 (WE)	0.02 (WE)	0.00 (RI)	0.00 (RI)	0.06 (WE)	0.63 (ML)	0.20 (ML,RI0.16 (MM))	0.30 (WE)	0.20 (RI,LI0.30 (WE))	0.50 (ML)	0.25 (LO)	[0.21, 0.28]	0.27 (LO)	[0.19, 0.35]		
uni	2x	5	4	0.01 (MM)	0.01 (LO)	0.00 (MM)	0.01 (WE)	0.00 (MM)	0.01 (LO)	0.07 (WE)	0.55 (ML)	0.30 (RI,LI0.30 (WE))	0.20 (RI,LI0.20 (RI))	0.32 (ML)	0.52 (ML)	0.32 (ML)	[0.31, 0.34]	0.41 (ML)	[0.38, 0.43]		
uni	2x	5	5	0.00 (MM)	0.00 (WE)	0.01 (MM)	0.00 (MM)	0.00 (MM)	0.01 (RI)	0.09 (MM)	0.70 (ML)	0.22 (ML)	0.30 (RI,LI0.20 (RI,LI0.20 (RI,LI0.20 (RI,WE0.35 (ML)))	0.53 (ML)	0.38 (ML)	[0.36, 0.39]	0.51 (ML)	[0.48, 0.53]			
uni	2x	5	10	0.00 (MM)	0.02 (ML)	0.01 (MM)	0.01 (RI)	0.02 (ML)	0.00 (MM)	0.06 (WE)	0.77 (ML)	0.30 (RI)	0.30 (RI)	0.30 (LO,WE0.60 (LO))	0.40 (ML)	0.60 (ML)	0.54 (ML)	[0.53, 0.56]	0.70 (ML)	[0.68, 0.71]	
uni	2x	5	15	0.01 (MM)	0.01 (MM)	0.02 (MM)	0.00 (MM)	0.00 (ML)	0.02 (ML)	0.07 (WE)	0.88 (MM)	0.60 (LO)	0.26 (MM,MI0.40 (LO))	0.23 (MM)	0.48 (ML)	0.63 (ML)	0.59 (ML)	[0.58, 0.60]	0.75 (ML)	[0.73, 0.76]	
uni	2x	5	20	0.00 (LO)	0.00 (MM)	0.00 (ML)	0.02 (MM)	0.01 (MM)	0.01 (LO)	0.07 (WE)	0.84 (MM)	0.50 (RI,LI0.40 (WE))	0.22 (ML)	0.30 (RI,LI0.50 (RI))	0.66 (ML)	0.63 (ML)	[0.62, 0.64]	0.80 (ML)	[0.78, 0.81]		
uni	2x	10	2	0.02 (MM)	0.00 (LO)	0.00 (MM)	0.02 (MM)	0.01 (MM)	0.01 (MM)	0.05 (WE)	0.60 (ML)	0.27 (ML)	0.20 (WE)	0.16 (VR,PI0.20 (LO))	0.25 (ML)	0.49 (ML)	0.23 (LO)	[0.19, 0.27]	0.28 (PD)	[0.26, 0.30]	
uni	2x	10	3	0.00 (MM)	0.00 (RI)	0.00 (MM)	0.00 (MM)	0.01 (MM)	0.00 (MM)	0.06 (WE)	0.79 (ML)	0.23 (ML)	0.20 (LO)	0.21 (ML)	0.16 (ML)	0.30 (WE)	0.53 (ML)	0.41 (ML)	[0.39, 0.42]	0.45 (ML)	[0.43, 0.48]
uni	2x	10	4	0.00 (RI)	0.00 (ML)	0.00 (LO)	0.01 (ML)	0.00 (MM)	0.02 (MM)	0.06 (WE)	0.75 (ML)	0.30 (RI)	0.26 (MM)	0.50 (WE)	0.18 (ML)	0.40 (LO)	0.54 (ML)	0.50 (ML)	[0.49, 0.52]	0.62 (ML)	[0.60, 0.65]
uni	2x	10	5	0.00 (MM)	0.01 (LO)	0.00 (ML)	0.00 (MM)	0.01 (ML)	0.00 (MM)	0.06 (WE)	0.74 (ML)	0.30 (RI,LI0.30 (RI))	0.33 (ML)	0.40 (LO)	0.40 (RI)	0.56 (ML)	0.56 (ML)	[0.54, 0.57]	0.70 (ML)	[0.68, 0.72]	
uni	2x	10	10	0.01 (MM)	0.01 (MM)	0.01 (LO)	0.00 (MM)	0.00 (MM)	0.01 (WE)	0.07 (WE)	0.83 (ML)	0.50 (RI)	0.34 (MM,MI0.40 (RI))	0.36 (ML)	0.40 (RI,WE0.63 (ML))	0.69 (ML)	[0.68, 0.70]	0.81 (ML)	[0.79, 0.82]		
uni	2x	10	15	0.00 (MM)	0.01 (LO)	0.00 (ML)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.07 (WE)	0.85 (ML)	0.50 (RI)	0.37 (ML)	0.36 (MM,MI0.35 (MM))	0.48 (ML)	0.68 (ML)	0.70 (ML)	[0.68, 0.71]	0.86 (ML)	[0.85, 0.87]	
uni	2x	10	20	0.00 (MM)	0.00 (MM)	0.00 (LO)	0.00 (ML)	0.01 (LO)	0.01 (ML)	0.07 (WE)	0.89 (MM,MI0.30 (WE))	0.40 (LO,WE0.50 (LO))	0.40 (RI,LI0.58 (ML))	0.71 (ML)	0.73 (ML)	[0.72, 0.74]	0.88 (ML)	[0.87, 0.89]			
uni	2x	15	2	0.02 (MM)	0.00 (ML)	0.02 (MM)	0.00 (PD)	0.01 (VR)	0.01 (MM)	0.06 (WE)	0.71 (ML)	0.15 (ML)	0.20 (MM,MI0.12 (PD))	0.40 (LO)	0.30 (LO)	0.50 (ML)	0.33 (ML)	[0.31, 0.34]	0.44 (LO)	[0.36, 0.51]	
uni	2x	15	3	0.00 (MM)	0.02 (MM)	0.01 (MM)	0.01 (MM)	0.02 (MM)	0.03 (MM)	0.06 (WE)	0.66 (ML)	0.30 (LO)	0.17 (ML)	0.40 (WE)	0.30 (WE)	0.27 (ML)	0.54 (ML)	0.51 (ML)	[0.49, 0.52]	0.60 (ML)	[0.58, 0.62]
uni	2x	15	4	0.02 (MM)	0.01 (ML)	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.01 (WE)	0.05 (WE)	0.81 (ML)	0.30 (RI)	0.40 (RI,LI0.32 (ML))	0.30 (WE)	0.39 (ML)	0.57 (ML)	0.60 (ML)	[0.59, 0.61]	0.70 (ML)	[0.68, 0.72]	
uni	2x	15	5	0.00 (MM)	0.00 (WE)	0.01 (ML)	0.01 (MM)	0.00 (RI)	0.00 (MM)	0.07 (WE)	0.80 (ML)	0.34 (ML)	0.50 (RI)	0.40 (RI)	0.27 (MM)	0.40 (ML,RI0.59 (ML))	0.65 (ML)	[0.64, 0.67]	0.77 (ML)	[0.75, 0.78]	
uni	2x	15	10	0.00 (MM)	0.00 (ML)	0.01 (MM)	0.00 (ML)	0.00 (MM)	0.00 (MM)	0.07 (WE)	0.85 (ML)	0.60 (RI)	0.60 (WE)	0.41 (ML)	0.50 (RI,LI0.53 (ML))	0.66 (ML)	0.74 (ML)	[0.73, 0.75]	0.86 (ML)	[0.85, 0.87]	
uni	2x	15	15	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.06 (WE)	0.90 (ML)	0.41 (ML)	0.44 (MM)	0.52 (ML)	0.41 (MM,MI0.50 (WE))	0.73 (ML)	0.75 (ML)	[0.74, 0.76]	0.90 (ML)	[0.89, 0.90]	
uni	2x	15	20	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.01 (WE)	0.01 (ML)	0.07 (WE)	0.96 (ML)	0.42 (ML)	0.60 (LO)	0.52 (MM)	0.70 (LO)	0.63 (ML)	0.75 (ML)	0.76 (WE)	[0.73, 0.78]	0.90 (ML)	[0.89, 0.90]
uni	2x	20	2	0.01 (WE)	0.00 (WE)	0.00 (VR)	0.00 (WE)	0.00 (WE)	0.00 (WE)	0.07 (WE)	0.74 (ML)	0.30 (LO)	0.20 (WE)	0.30 (WE)	0.24 (ML)	0.39 (ML)	0.53 (ML)	0.40 (ML)	[0.38, 0.42]	0.49 (ML)	[0.47, 0.52]
uni	2x	20	3	0.00 (LO)	0.00 (MM)	0.00 (MM)	0.00 (MM)	0.01 (MM)	0.02 (MM)	0.06 (WE)	0.77 (ML)	0.40 (LO,WE0.30 (WE))	0.40 (RI)	0.20 (ML,RI0.50 (RI))	0.55 (ML)	0.60 (ML)	[0.59, 0.61]	0.70 (ML)	[0.68, 0.71]		
uni	2x	20	4	0.01 (RI)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.77 (ML)	0.40 (RI)	0.40 (LO)	0.34 (ML)	0.50 (RI,WE0.44 (ML))	0.59 (ML)	0.67 (ML)	[0.66, 0.68]	0.77 (ML)	[0.75, 0.78]	
uni	2x	20	5	0.00 (MM)	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.01 (MM)	0.00 (MM)	0.06 (WE)	0.85 (ML)	0.39 (ML)	0.27 (MM)	0.38 (ML)	0.38 (MM,MI0.46 (ML))	0.61 (ML)	0.70 (ML)	[0.69, 0.71]	0.81 (ML)	[0.80, 0.83]	
uni	2x	20	10	0.00 (LO)	0.00 (ML)	0.06 (WE)	0.93 (ML)	0.40 (LO,WE0.45 (MM,MI0.44 (MM)))	0.44 (MM)	0.60 (WE)	0.69 (ML)	0.75 (ML)	[0.74, 0.76]	0.89 (ML)	[0.88, 0.90]						
uni	2x	20	15	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.06 (WE)	0.93 (ML)	0.52 (ML)	0.70 (RI)	0.53 (MM)	0.60 (RI)	0.64 (ML)	0.74 (ML)	[0.79, 0.83]	0.92 (ML)	[0.91, 0.92]	
uni	2x	20	20	0.00 (MM)	0.01 (ML)	0.00 (LO)	0.02 (ML)	0.02 (ML)	0.02 (ML)	0.06 (WE)	0.97 (ML)	0.62 (ML)	0.54 (MM)	0.60 (LO)	0.70 (RI,LI0.67 (ML))	0.79 (ML)	0.82 (WE)	[0.80, 0.84]	0.93 (ML)	[0.92, 0.93]	
uni	2x	50	2	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.01 (MM)	0.00 (PD)	0.00 (VR)	0.06 (WE)	0.79 (ML)	0.49 (ML)	0.32 (MM)	0.50 (WE)	0.50 (WE)	0.38 (ML)	0.57 (ML)	0.64 (ML)	[0.63, 0.66]	0.74 (ML)	[0.73, 0.76]
uni	2x	50	3	0.01 (MM)	0.00 (MM)	0.00 (MM)	0.01 (ML)	0.00 (MM)	0.01 (RI)	0.06 (WE)	0.89 (ML)	0.60 (RI)	0.50 (RI,LI0.70 (LO))	0.60 (WE)	0.60 (LO)	0.62 (ML)	0.72 (ML)	[0.71, 0.73]	0.85 (ML)	[0.84, 0.86]	
uni	2x	50	4	0.00 (MM)	0.01 (ML)	0.00 (MM)	0.00 (MM)	0.00 (MM)	0.00 (LO)	0.07 (WE)	0.91 (ML)	0.70 (RI)	0.50 (WE)	0.51 (ML)	0.80 (WE)	0.70 (RI,LI0.66 (ML))	0.75 (ML)	[0.74, 0.76]	0.89 (ML)	[0.89, 0.90]	
uni	2x	50	5	0.01 (LO)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (MM)	0.07 (WE)	0.93 (ML)	0.50 (RI,LI0.54 (MM))	0.60 (RI)	0.60 (WE)	0.70 (WE)	0.69 (ML)	0.80 (WE)	[0.78, 0.83]	0.92 (ML)	[0.91, 0.92]	
uni	2x	50	10	0.00 (MM)	0.00 (WE)	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.07 (WE)	0.99 (ML)	0.70 (RI)	0.70 (RI,WE0.72 (ML))	0.65 (MM)	0.76 (ML)	0.78 (ML)	0.85 (WE)	[0.83, 0.87]	0.95 (ML)	[0.94, 0.95]	
uni	2x	50	15	0.00 (MM)	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.06 (WE)	1.00 (MM,MI0.70 (RI,LI0.69 (ML))	0.90 (LO)	0.70 (RI)	0.76 (ML)	0.83 (ML)	0.89 (WE)	[0.88, 0.91]	0.96 (ML)	[0.96, 0.96]		
uni	2x	50	20	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.01 (ML)	0.00 (RI)	0.01 (RI)	0.07 (WE)	0.98 (MM,MI0.70 (LO))	0.90 (RI)	0.80 (RI)	0.90 (WE)	0.90 (LO,WE0.86 (ML))	0.90 (WE)	[0.89, 0.91]	0.96 (ML)	[0.96, 0.96]		

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	2x	100	2	0.00 (MM)	0.00 (MM)	0.00 (MM)	0.00 (PD)	0.00 (MM)	0.00 (MM)	0.06 (WE)	0.83 (ML)	0.53 (MM,MI) 0.40 (LO)	0.50 (LO)	0.44 (MM)	0.48 (ML)	0.62 (ML)	0.74 (ML)	[0.73, 0.75]	0.86 (ML)	[0.85, 0.87]	
uni	2x	100	3	0.00 (MM)	0.01 (MM)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.00 (MM)	0.06 (WE)	0.97 (ML)	0.80 (LO)	0.52 (ML)	0.58 (ML)	0.70 (LO)	0.60 (ML)	0.69 (ML)	0.84 (WE)	[0.83, 0.86]	0.92 (ML)	[0.92, 0.93]
uni	2x	100	4	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.00 (MM)	0.06 (WE)	0.95 (ML)	0.90 (LO)	0.80 (RI)	0.70 (RI)	0.61 (ML)	0.64 (ML)	0.74 (ML)	0.86 (WE)	[0.84, 0.87]	0.94 (ML)	[0.93, 0.94]
uni	2x	100	5	0.00 (MM)	0.00 (LO)	0.00 (LD)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.06 (WE)	0.98 (ML)	0.74 (ML)	0.90 (RI)	0.72 (ML)	0.70 (RI)	0.80 (LO)	0.76 (ML)	0.86 (WE)	[0.85, 0.88]	0.95 (ML)	[0.95, 0.96]
uni	2x	100	10	0.00 (ML)	0.01 (MM)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.06 (WE)	1.00 (MM,MI) 0.80 (MM,MI) 0.75 (MM,MI)	1.00 (LO)	0.90 (RI)	0.90 (RI)	1.00 (LO)	0.86 (ML)	0.93 (WE)	[0.92, 0.93]	0.97 (ML)	[0.96, 0.97]	
uni	2x	100	15	0.00 (LO)	0.00 (RI)	0.01 (RI)	0.01 (LO)	0.00 (LO)	0.01 (RI)	0.06 (WE)	1.00 (MM,MI) 0.80 (MM)	1.00 (RI)	0.90 (RI)	1.00 (RI,LI)	1.00 (RI,LI)	0.94 (ML)	0.88 (ML)	0.93 (WE)	[0.92, 0.94]	0.98 (LO)	[0.97, 0.98]
uni	2x	100	20	0.00 (MM)	0.01 (ML)	0.01 (ML)	0.01 (LO)	0.01 (LO)	0.01 (RI)	0.06 (WE)	1.00 (MM,MI) 0.90 (WE)	0.82 (ML)	0.92 (ML)	0.90 (RI)	0.90 (RI,LI)	0.89 (ML)	0.95 (WE)	[0.94, 0.95]	0.98 (LO)	[0.97, 0.98]	
uni	2x	500	2	0.01 (ML)	0.00 (VR)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (PD)	0.06 (WE)	1.00 (ML)	0.80 (WE)	0.82 (PD)	0.82 (ML)	0.80 (ML)	0.78 (VR)	0.78 (ML)	0.91 (WE)	[0.90, 0.92]	0.96 (ML)	[0.96, 0.96]
uni	2x	500	3	0.00 (LO)	0.00 (LO)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.07 (WE)	1.00 (ML,LI)	1.00 (LO)	0.94 (ML)	0.90 (RI,LI)	1.00 (LO)	0.85 (ML)	0.94 (WE)	[0.93, 0.94]	0.97 (ML)	[0.97, 0.98]	
uni	2x	500	4	0.00 (MM)	0.00 (RI)	0.01 (LO)	0.00 (ML)	0.00 (LO)	0.00 (RI)	0.06 (WE)	1.00 (MM,MI) 0.99 (ML)	1.00 (LO)	1.00 (RI)	1.00 (RI)	1.00 (RI,LI)	0.87 (ML)	0.95 (WE)	[0.94, 0.96]	0.98 (LO)	[0.97, 0.98]	
uni	2x	500	5	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM,MI) 1.00 (RI)	1.00 (RI,LI)	1.00 (RI,LI)	1.00 (RI,LI)	1.00 (RI,LI)	0.89 (ML)	0.96 (WE)	[0.95, 0.96]	0.98 (LO)	[0.98, 0.99]	
uni	2x	500	10	0.00 (MM)	0.00 (RI)	0.00 (LO)	0.00 (RI)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM,MI) 1.00 (RI,LI)	1.00 (MM,MI) 1.00 (RI)	1.00 (RI,LI)	1.00 (MM,MI) 0.90 (ML)	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]			
uni	2x	500	15	0.00 (ML)	0.00 (LO)	0.00 (RI)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.07 (WE)	1.00 (MM,MI) 1.00 (ML,RI)	1.00 (MM,MI) 1.00 (ML)	1.00 (MM,MI) 1.00 (LO)	1.00 (MM,MI) 0.90 (ML)	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]			
uni	2x	500	20	0.00 (ML)	0.01 (LO)	0.01 (LO)	0.00 (LO)	0.01 (LO)	0.01 (LO)	0.07 (WE)	1.00 (MM,MI) 1.00 (RI,LI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (ML,RI)	1.00 (MM,RI) 0.90 (ML)	1.00 (RI,LO) 0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]			
uni	2x	1000	2	0.00 (LO)	0.00 (MM)	0.00 (MM)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.06 (WE)	1.00 (ML)	1.00 (WE)	0.92 (MM,MI) 0.95 (MM,MI)	1.00 (LO)	0.89 (ML)	0.85 (ML)	0.94 (WE)	[0.93, 0.95]	0.97 (ML)	[0.97, 0.98]	
uni	2x	1000	3	0.00 (MM)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (LO)	0.07 (WE)	1.00 (MM,MI) 1.00 (ML,RI) 0.98 (MM)	1.00 (LO)	0.99 (ML)	0.98 (ML)	0.88 (ML)	0.96 (WE)	[0.95, 0.96]	0.98 (LO)	[0.98, 0.99]		
uni	2x	1000	4	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.06 (WE)	1.00 (MM,MI) 1.00 (ML,RI)	1.00 (LO)	1.00 (LO)	1.00 (RI,LI)	1.00 (MM,MI) 0.90 (ML)	0.97 (WE)	[0.96, 0.97]	0.99 (LO)	[0.98, 0.99]		
uni	2x	1000	5	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (ML,RI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (ML,RI)	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]			
uni	2x	1000	10	0.00 (ML)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.00 (LO)	0.00 (RI)	0.07 (WE)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 0.90 (ML)	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 1.00]			
uni	2x	1000	15	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 0.90 (ML)	1.00 (RI,LO) 0.97 (WE)	[0.97, 0.98]	0.99 (LO)	[0.99, 0.99]			
uni	2x	1000	20	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 1.00 (MM,MI)	1.00 (MM,MI) 0.90 (ML)	1.00 (RI,LO) 0.97 (WE)	[0.97, 0.97]	1.00 (LO)	[0.99, 1.00]		
uni	4x	5	2	0.00 (ML)	0.04 (ML)	0.04 (VR)	0.03 (WE)	0.01 (WE)	0.03 (FA)	0.03 (PD)	0.10 (ML,LI) 0.04 (ML,FI) 0.23 (MM)	0.17 (MM)	0.14 (FA)	0.46 (PD)	0.72 (PD)	0.11 (VR)	[0.10, 0.12]	0.15 (VR)	[0.13, 0.17]		
uni	4x	5	3	0.05 (ML)	0.09 (ML)	0.04 (MM)	0.05 (ML)	0.02 (MM)	0.01 (RI)	0.07 (RI)	0.28 (ML)	0.30 (LO)	0.20 (ML)	0.20 (LO,WF) 0.20 (LO,WF)	0.21 (ML)	0.47 (ML)	0.09 (ML)	[0.08, 0.11]	0.18 (LO)	[0.10, 0.26]	
uni	4x	5	4	0.07 (WE)	0.12 (ML)	0.04 (MM)	0.04 (MM)	0.01 (MM)	0.02 (MM)	0.08 (WE)	0.30 (ML)	0.20 (ML,RI) 0.20 (ML,RI)	0.24 (ML)	0.23 (ML)	0.30 (LO)	0.30 (WE)	0.47 (ML)	0.16 (ML)	[0.14, 0.17]	0.20 (LO)	[0.10, 0.30]
uni	4x	5	5	0.09 (ML)	0.16 (ML)	0.03 (MM)	0.01 (ML)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.27 (ML)	0.21 (ML)	0.32 (ML)	0.21 (ML)	0.30 (RI)	0.30 (RI)	0.48 (ML)	0.19 (WE)	[0.15, 0.23]	0.23 (ML)	[0.19, 0.26]
uni	4x	5	10	0.11 (ML)	0.13 (ML)	0.00 (RI)	0.01 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.30 (RI)	0.13 (MM,MI) 0.35 (ML)	0.37 (ML)	0.30 (RI,LI)	0.31 (ML)	0.53 (ML)	0.32 (WE)	[0.27, 0.37]	0.40 (ML)	[0.36, 0.43]	
uni	4x	5	15	0.11 (ML)	0.16 (LO)	0.00 (LO)	0.02 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.23 (ML)	0.12 (ML)	0.49 (ML)	0.31 (ML)	0.40 (RI,LI)	0.37 (ML)	0.56 (ML)	0.37 (ML)	[0.35, 0.39]	0.44 (ML)	[0.41, 0.47]
uni	4x	5	20	0.12 (LO)	0.18 (ML)	0.01 (LO)	0.04 (ML)	0.01 (ML)	0.01 (WE)	0.08 (WE)	0.20 (LO)	0.14 (ML)	0.70 (RI,WE)	0.40 (LO,WF)	0.50 (WE)	0.37 (ML)	0.58 (ML)	0.40 (WE)	[0.34, 0.45]	0.55 (ML)	[0.53, 0.58]
uni	4x	10	2	0.00 (VR)	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.01 (LO)	0.00 (MM)	0.03 (PD)	0.20 (WE)	0.15 (ML)	0.21 (MM)	0.18 (MM)	0.18 (VR)	0.35 (PD)	0.71 (PD)	0.19 (VR)	[0.18, 0.20]	0.27 (VR)	[0.24, 0.29]
uni	4x	10	3	0.10 (ML)	0.06 (RI)	0.02 (MM)	0.01 (ML)	0.00 (MM)	0.02 (MM)	0.09 (WE)	0.20 (RI,LI)	0.30 (RI)	0.18 (ML)	0.20 (ML,LI)	0.20 (LO,WF)	0.20 (LO,WF)	0.48 (ML)	0.19 (ML)	[0.17, 0.20]	0.20 (ML)	[0.17, 0.23]
uni	4x	10	4	0.08 (LO)	0.06 (RI)	0.01 (MM)	0.01 (WE)	0.04 (ML)	0.01 (MM)	0.07 (WE)	0.20 (LO,WF)	0.20 (LO,WF)	0.20 (LO)	0.30 (LO)	0.30 (WE)	0.32 (ML)	0.51 (ML)	0.21 (ML)	[0.19, 0.23]	0.29 (ML)	[0.26, 0.32]
uni	4x	10	5	0.07 (RI)	0.20 (ML)	0.02 (MM)	0.02 (ML)	0.01 (MM)	0.04 (MM)	0.08 (WE)	0.30 (RI)	0.10 (ML,RI)	0.28 (ML)	0.29 (ML)	0.20 (RI)	0.50 (LO)	0.52 (ML)	0.26 (ML)	[0.24, 0.28]	0.34 (ML)	[0.30, 0.37]
uni	4x	10	10	0.12 (ML)	0.17 (ML)	0.00 (WE)	0.05 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.15 (ML)	0.10 (ML,RI)	0.44 (ML)	0.32 (ML)	0.40 (LO)	0.40 (ML)	0.59 (ML)	0.35 (ML)	[0.33, 0.36]	0.50 (ML)	[0.47, 0.53]
uni	4x	10	15	0.14 (ML)	0.14 (LO)	0.00 (WE)	0.06 (ML)	0.00 (MM)	0.01 (MM)	0.07 (WE)	0.20 (LO,WF)	0.10 (RI,LI)	0.50 (ML)	0.28 (ML)	0.40 (RI,LI)	0.60 (WE)	0.63 (ML)	0.40 (ML)	[0.38, 0.41]	0.55 (ML)	[0.52, 0.58]
uni	4x	10	20	0.14 (ML)	0.19 (ML)	0.01 (ML)	0.06 (ML)	0.00 (ML)	0.01 (LO)	0.08 (WE)	0.04 (ML)	0.05 (ML)	0.50 (LO)	0.36 (ML)	0.50 (LO,WF)	0.55 (ML)	0.66 (ML)	0.43 (WE)	[0.39, 0.47]	0.59 (ML)	[0.56, 0.61]

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	4x	15	2	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.02 (MM)	0.03 (PD)	0.17 (ML,VI)	0.17 (ML)	0.22 (VR)	0.12 (MM)	0.17 (VR)	0.37 (PD)	0.71 (PD)	0.26 (VR)	[0.25, 0.27]	0.35 (VR)	[0.33, 0.37]
uni	4x	15	3	0.07 (ML)	0.17 (ML)	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.01 (WE)	0.09 (WE)	0.14 (ML)	0.15 (ML)	0.24 (ML)	0.16 (ML)	0.20 (RI)	0.22 (ML)	0.52 (ML)	0.20 (ML)	[0.18, 0.21]	0.24 (ML)	[0.20, 0.27]
uni	4x	15	4	0.08 (RI)	0.11 (RI)	0.00 (WE)	0.01 (ML)	0.01 (ML)	0.00 (MM)	0.09 (WE)	0.21 (ML)	0.15 (ML)	0.20 (LO,VI)	0.50 (RI)	0.30 (RI)	0.40 (RI)	0.53 (ML)	0.26 (ML)	[0.24, 0.28]	0.31 (ML)	[0.27, 0.34]
uni	4x	15	5	0.07 (ML)	0.19 (ML)	0.00 (MM)	0.01 (ML)	0.02 (MM)	0.01 (MM)	0.09 (WE)	0.50 (RI)	0.10 (RI)	0.41 (ML)	0.31 (ML)	0.24 (ML)	0.29 (ML)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.37 (ML)	[0.34, 0.40]
uni	4x	15	10	0.12 (LO)	0.17 (ML)	0.01 (ML)	0.03 (LO)	0.01 (ML)	0.02 (ML)	0.08 (WE)	0.20 (WE)	0.30 (LO)	0.60 (RI)	0.40 (LO)	0.80 (RI)	0.50 (LO)	0.63 (ML)	0.40 (WE)	[0.35, 0.45]	0.54 (LO)	[0.45, 0.61]
uni	4x	15	15	0.12 (LO)	0.17 (RI)	0.00 (LO)	0.06 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.10 (RI)	0.10 (LO)	0.60 (RI,LO)	0.40 (LO)	0.60 (WE)	0.50 (WE)	0.68 (ML)	0.40 (WE)	[0.35, 0.45]	0.58 (ML)	[0.55, 0.60]
uni	4x	15	20	0.14 (ML)	0.17 (LO)	0.01 (ML)	0.03 (LO)	0.00 (ML)	0.01 (MM)	0.08 (WE)	0.10 (LO)	0.20 (LO)	0.65 (ML)	0.40 (LO,VI)	0.52 (MM)	0.58 (ML)	0.72 (ML)	0.49 (WE)	[0.44, 0.53]	0.59 (ML)	[0.57, 0.61]
uni	4x	20	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (RI)	0.04 (VR)	0.02 (MM)	0.03 (RI)	0.20 (WE)	0.25 (VR)	0.22 (VR)	0.23 (VR)	0.20 (WE)	0.42 (PD)	0.65 (PD)	0.29 (VR)	[0.28, 0.31]	0.43 (VR)	[0.41, 0.46]
uni	4x	20	3	0.11 (ML)	0.13 (LO)	0.00 (RI)	0.02 (ML)	0.02 (MM)	0.01 (LO)	0.08 (WE)	0.40 (WE)	0.15 (ML)	0.40 (LO)	0.15 (MM)	0.11 (MM)	0.23 (ML)	0.53 (ML)	0.25 (WE)	[0.20, 0.29]	0.26 (ML)	[0.22, 0.29]
uni	4x	20	4	0.05 (RI)	0.11 (LO)	0.00 (RI)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.08 (WE)	0.15 (ML)	0.12 (ML)	0.22 (ML)	0.20 (RI,LO)	0.27 (MM)	0.31 (ML)	0.56 (ML)	0.26 (ML)	[0.24, 0.28]	0.34 (ML)	[0.30, 0.37]
uni	4x	20	5	0.08 (ML)	0.20 (ML)	0.01 (MM)	0.03 (ML)	0.02 (ML)	0.00 (MM)	0.09 (WE)	0.20 (RI,LI)	0.10 (MM,VI)	0.50 (LO)	0.20 (ML,LI)	0.30 (RI,LI)	0.31 (ML)	0.58 (ML)	0.31 (ML)	[0.29, 0.33]	0.41 (ML)	[0.37, 0.44]
uni	4x	20	10	0.12 (ML)	0.16 (LO)	0.00 (RI)	0.05 (ML)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.10 (RI)	0.20 (RI,LO)	0.63 (ML)	0.36 (ML)	0.70 (LO)	0.42 (ML)	0.66 (ML)	0.42 (WE)	[0.37, 0.46]	0.54 (ML)	[0.51, 0.56]
uni	4x	20	15	0.13 (ML)	0.09 (LO)	0.01 (RI)	0.05 (ML)	0.00 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM,VI)	0.20 (LO,VI)	0.65 (ML)	0.33 (ML)	0.53 (ML)	0.59 (ML)	0.71 (ML)	0.42 (WE)	[0.37, 0.46]	0.59 (ML)	[0.56, 0.61]
uni	4x	20	20	0.13 (ML)	0.18 (LO)	0.01 (ML)	0.06 (ML)	0.01 (ML)	0.01 (MM)	0.08 (WE)	0.07 (ML)	0.02 (ML)	0.71 (ML)	0.32 (ML)	0.63 (MM)	0.68 (ML)	0.75 (ML)	0.55 (WE)	[0.51, 0.59]	0.62 (ML)	[0.60, 0.64]
uni	4x	50	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (MM)	0.03 (PD)	0.27 (VR)	0.28 (VR)	0.26 (VR)	0.22 (VR)	0.27 (VR,FI)	0.47 (PD)	0.76 (PD)	0.46 (VR)	[0.45, 0.48]	0.66 (VR)	[0.64, 0.68]
uni	4x	50	3	0.11 (ML)	0.18 (ML)	0.00 (ML)	0.04 (ML)	0.03 (MM)	0.01 (MM)	0.09 (WE)	0.10 (LO)	0.12 (MM)	0.21 (ML)	0.10 (RI)	0.15 (MM,VI)	0.24 (ML)	0.58 (ML)	0.26 (WE)	[0.21, 0.30]	0.30 (ML)	[0.26, 0.33]
uni	4x	50	4	0.11 (ML)	0.05 (RI)	0.01 (MM)	0.02 (ML)	0.01 (WE)	0.00 (WE)	0.08 (WE)	0.20 (RI,LI)	0.30 (WE)	0.32 (ML)	0.20 (RI,LI)	0.40 (RI)	0.39 (ML)	0.63 (ML)	0.29 (WE)	[0.24, 0.34]	0.40 (ML)	[0.37, 0.43]
uni	4x	50	5	0.09 (RI)	0.21 (ML)	0.00 (MM)	0.05 (ML)	0.01 (ML)	0.02 (WE)	0.08 (WE)	0.01 (MM,VI)	0.08 (ML)	0.50 (RI)	0.20 (RI)	0.60 (RI,LI)	0.41 (ML)	0.67 (ML)	0.32 (WE)	[0.27, 0.37]	0.42 (WE)	[0.33, 0.51]
uni	4x	50	10	0.13 (LO)	0.15 (LO)	0.00 (ML)	0.06 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.01 (MM,VI)	0.05 (MM,VI)	0.70 (LO)	0.21 (ML)	0.56 (ML)	0.63 (ML)	0.76 (ML)	0.48 (WE)	[0.43, 0.52]	0.58 (ML)	[0.56, 0.61]
uni	4x	50	15	0.14 (ML)	0.15 (LO)	0.02 (ML)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.01 (ML)	0.10 (LO,VI)	0.73 (ML)	0.14 (ML)	0.58 (ML)	0.69 (ML)	0.81 (ML)	0.51 (WE)	[0.47, 0.55]	0.61 (ML)	[0.58, 0.63]
uni	4x	50	20	0.14 (ML)	0.20 (ML)	0.01 (ML)	0.06 (LO)	0.01 (ML)	0.00 (RI)	0.08 (WE)	0.02 (MM,VI)	0.00 (MM,VI)	0.83 (MM)	0.18 (ML)	0.75 (ML)	0.80 (LO)	0.83 (ML)	0.53 (WE)	[0.49, 0.57]	0.63 (ML)	[0.61, 0.65]
uni	4x	100	2	0.01 (VR)	0.01 (VR)	0.01 (MM)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.03 (PD)	0.36 (VR)	0.34 (VR)	0.29 (VR)	0.42 (VR)	0.45 (VR)	0.54 (PD)	0.84 (PD)	0.58 (VR)	[0.57, 0.59]	0.79 (VR)	[0.77, 0.80]
uni	4x	100	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.01 (RI)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.10 (WE)	0.12 (MM,VI)	0.20 (RI,LO)	0.20 (RI)	0.20 (RI)	0.25 (ML)	0.60 (ML)	0.29 (WE)	[0.24, 0.34]	0.31 (ML)	[0.28, 0.35]
uni	4x	100	4	0.11 (RI)	0.11 (LO)	0.00 (LO)	0.02 (ML)	0.00 (LO)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.20 (RI,VI)	0.27 (ML)	0.07 (ML)	0.30 (MM)	0.39 (ML)	0.67 (ML)	0.36 (WE)	[0.31, 0.41]	0.41 (ML)	[0.37, 0.44]
uni	4x	100	5	0.10 (LO)	0.20 (ML)	0.01 (MM)	0.05 (ML)	0.00 (ML)	0.00 (LO)	0.09 (WE)	0.02 (ML)	0.10 (ML)	0.39 (ML)	0.11 (ML)	0.40 (LO)	0.43 (ML)	0.71 (ML)	0.38 (WE)	[0.33, 0.43]	0.46 (LO)	[0.37, 0.55]
uni	4x	100	10	0.12 (RI)	0.16 (LO)	0.00 (ML)	0.06 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.00 (MM,VI)	0.10 (RI,LO)	0.73 (ML)	0.20 (RI,LO)	0.80 (LO)	0.72 (ML)	0.80 (ML)	0.51 (WE)	[0.47, 0.56]	0.58 (ML)	[0.56, 0.60]
uni	4x	100	15	0.14 (LO)	0.16 (LO)	0.00 (LO)	0.07 (LO)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.02 (ML)	0.20 (RI)	0.83 (MM)	0.40 (LO)	0.80 (RI,LO)	0.75 (ML)	0.83 (ML)	0.49 (WE)	[0.45, 0.53]	0.61 (ML)	[0.59, 0.63]
uni	4x	100	20	0.14 (LO)	0.20 (ML)	0.01 (ML)	0.04 (LO)	0.01 (LO)	0.00 (ML)	0.08 (WE)	0.00 (MM,VI)	0.00 (MM,VI)	0.91 (MM)	0.50 (LO)	0.90 (LO,VI)	0.91 (ML)	0.85 (ML)	0.58 (WE)	[0.54, 0.61]	0.64 (ML)	[0.62, 0.66]
uni	4x	500	2	0.00 (VR)	0.03 (PD)	0.75 (VR)	0.74 (VR)	0.73 (VR)	0.73 (VR)	0.76 (VR)	0.72 (VR)	0.90 (PD)	0.71 (VR)	[0.70, 0.71]	0.95 (VR)	[0.94, 0.95]					
uni	4x	500	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.06 (ML)	0.01 (MM)	0.00 (MM)	0.09 (WE)	0.00 (MM,VI)	0.14 (MM)	0.00 (MM,VI)	0.00 (MM,VI)	0.00 (MM,VI)	0.19 (ML)	0.61 (ML)	0.29 (WE)	[0.24, 0.34]	0.32 (MM)	[0.29, 0.35]
uni	4x	500	4	0.11 (RI)	0.12 (RI)	0.00 (WE)	0.02 (RI)	0.00 (WE)	0.00 (MM)	0.08 (WE)	0.10 (LO)	0.30 (WE)	0.20 (RI)	0.20 (RI)	0.50 (RI)	0.40 (RI)	0.67 (ML)	0.34 (WE)	[0.28, 0.38]	0.41 (MM)	[0.38, 0.44]
uni	4x	500	5	0.10 (LO)	0.21 (ML)	0.00 (MM)	0.06 (ML)	0.00 (ML)	0.00 (RI)	0.08 (WE)	0.00 (MM,VI)	0.06 (MM,VI)	0.23 (ML)	0.02 (ML)	0.20 (ML,VI)	0.40 (LO)	0.72 (ML)	0.39 (WE)	[0.34, 0.44]	0.45 (LO)	[0.35, 0.54]
uni	4x	500	10	0.13 (LO)	0.15 (LO)	0.01 (LO)	0.06 (LO)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.00 (MM,VI)	0.04 (MM,VI)	0.80 (ML)	0.04 (ML)	1.00 (LO)	0.80 (ML)	0.81 (ML)	0.52 (WE)	[0.48, 0.56]	0.59 (ML)	[0.56, 0.61]
uni	4x	500	15	0.14 (ML)	0.15 (LO)	0.01 (RI)	0.07 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.01 (ML)	0.10 (WE)	0.94 (ML)	0.10 (LO)	1.00 (LO)	0.90 (LO)	0.84 (ML)	0.51 (WE)	[0.47, 0.55]	0.61 (ML)	[0.59, 0.63]
uni	4x	500	20	0.14 (ML)	0.20 (LO)	0.01 (MM)	0.06 (LO)	0.01 (MM)	0.00 (RI)	0.08 (WE)	0.01 (ML)	0.00 (MM,VI)	1.00 (RI,LO)	0.05 (MM,VI)	1.00 (RI,LO)	0.93 (MM,VI)	0.85 (ML)	0.58 (WE)	[0.54, 0.61]	0.64 (ML)	[0.62, 0.66]

dist	2n	loci	al	RMSE						IC						CCC						
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
uni	4x	1000	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.03 (PD)	0.90 (VR)	0.90 (VR)	0.87 (VR)	0.89 (VR)	0.84 (VR)	0.87 (VR)	0.90 (PD)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]	
uni	4x	1000	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.06 (ML)	0.01 (MM)	0.01 (MM)	0.09 (WE)	0.00 (MM), 0.11 (MM)	0.10 (LO)	0.00 (MM), 0.10 (MM)	0.00 (MM), 0.19 (ML)	0.61 (ML)	0.29 (WE)	[0.24, 0.34]	0.33 (MM)	[0.30, 0.36]			
uni	4x	1000	4	0.11 (RI)	0.09 (RI)	0.01 (WE)	0.03 (ML)	0.01 (WE)	0.00 (MM)	0.08 (WE)	0.00 (MM), 0.10 (WE)	0.30 (RI)	0.10 (RI)	0.20 (LO)	0.30 (ML)	0.67 (ML)	0.35 (WE)	[0.30, 0.40]	0.42 (MM)	[0.39, 0.45]		
uni	4x	1000	5	0.10 (RI)	0.21 (ML)	0.00 (MM)	0.06 (ML)	0.00 (ML)	0.00 (RI)	0.08 (WE)	0.00 (MM), 0.10 (MM)	0.10 (RI), 0.00 (MM), 0.10 (LO)	0.30 (LO)	0.30 (ML)	0.72 (ML)	0.40 (WE)	[0.35, 0.45]	0.46 (LO)	[0.36, 0.55]			
uni	4x	1000	10	0.13 (LO)	0.16 (LO)	0.01 (LO)	0.07 (LO)	0.01 (ML)	0.01 (ML)	0.08 (WE)	0.00 (MM), 0.10 (WE)	0.88 (ML)	0.10 (LO)	1.00 (LO)	0.78 (ML)	0.81 (ML)	0.51 (WE)	[0.47, 0.56]	0.59 (ML)	[0.56, 0.61]		
uni	4x	1000	15	0.14 (ML)	0.15 (LO)	0.00 (LO)	0.07 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.00 (MM), 0.10 (WE)	0.97 (MM), 0.20 (LO)	1.00 (RI), 0.10 (LO)	0.84 (ML)	0.51 (WE)	[0.47, 0.55]	0.61 (ML)	[0.59, 0.63]				
uni	4x	1000	20	0.14 (ML)	0.20 (MM)	0.01 (MM)	0.05 (LO)	0.01 (LO)	0.00 (RI)	0.08 (WE)	0.01 (ML)	0.00 (MM), 0.10 (MM)	1.00 (RI), 0.02 (MM), 0.10 (RI), 0.02 (MM), 0.10 (LO)	0.84 (ML)	0.58 (WE)	[0.55, 0.61]	0.64 (ML)	[0.62, 0.66]				
uni	6x	5	2	0.01 (VR)	0.07 (VR)	0.01 (VR)	0.05 (VR)	0.01 (VR)	0.02 (VR)	0.01 (MM)	0.30 (WE)	0.14 (ML)	0.20 (LO)	0.20 (WE)	0.30 (RI)	0.51 (PD)	0.94 (PD)	0.11 (VR)	[0.10, 0.12]	0.16 (VR)	[0.14, 0.18]	
uni	6x	5	3	0.06 (RI)	0.10 (LO)	0.04 (WE)	0.06 (ML)	0.00 (MM)	0.02 (WE)	0.06 (MM)	0.32 (ML)	0.17 (ML)	0.30 (LO)	0.17 (MM)	0.17 (MM)	0.18 (ML)	0.45 (ML)	0.10 (WE)	[0.07, 0.14]	0.15 (ML)	[0.12, 0.18]	
uni	6x	5	4	0.07 (LO)	0.17 (ML)	0.01 (MM)	0.01 (ML)	0.06 (MM)	0.07 (MM)	0.08 (WE)	0.20 (LO), 0.10 (LO)	0.20 (RI), 0.10 (LO)	0.11 (ML)	0.30 (LO)	0.16 (ML)	0.46 (ML)	0.13 (WE)	[0.09, 0.17]	0.15 (ML)	[0.12, 0.18]		
uni	6x	5	5	0.11 (ML)	0.04 (RI)	0.02 (MM)	0.00 (ML)	0.02 (MM)	0.02 (MM)	0.06 (WE)	0.19 (MM)	0.28 (ML)	0.20 (LO), 0.10 (MM)	0.20 (LO), 0.10 (ML)	0.47 (ML)	0.11 (ML)	[0.09, 0.13]	0.19 (ML)	[0.16, 0.23]			
uni	6x	5	10	0.13 (LO)	0.20 (ML)	0.00 (MM)	0.05 (ML)	0.01 (MM)	0.02 (MM)	0.09 (WE)	0.26 (ML)	0.30 (LO)	0.10 (LO), 0.50 (RI)	0.40 (LO), 0.10 (MM)	0.30 (RI), 0.10 (ML)	0.21 (ML)	[0.19, 0.23]	0.32 (LO)	[0.22, 0.41]			
uni	6x	5	15	0.12 (LO)	0.18 (ML)	0.01 (MM)	0.04 (ML)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.20 (RI), 0.10 (LO)	0.30 (RI)	0.19 (MM)	0.21 (MM)	0.40 (WE)	0.40 (WE)	0.53 (ML)	0.29 (WE)	[0.23, 0.34]	0.32 (ML)	[0.29, 0.36]	
uni	6x	5	20	0.14 (ML)	0.20 (ML)	0.00 (MM)	0.05 (ML)	0.00 (LO)	0.00 (MM)	0.09 (WE)	0.20 (LO)	0.10 (RI)	0.10 (LO), 0.35 (MM)	0.20 (RI)	0.40 (RI)	0.40 (RI), 0.10 (MM)	0.32 (WE)	[0.27, 0.37]	0.40 (ML)	[0.37, 0.44]		
uni	6x	10	2	0.04 (VR)	0.08 (VR)	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.01 (LO)	0.01 (PD)	0.20 (LO), 0.10 (ML)	0.20 (LO)	0.30 (LO), 0.10 (FA)	0.52 (PD)	0.95 (PD)	0.19 (VR)	[0.17, 0.20]	0.28 (VR)	[0.25, 0.30]			
uni	6x	10	3	0.02 (RI)	0.15 (ML)	0.00 (MM)	0.00 (LO)	0.01 (MM)	0.00 (MM)	0.09 (MM)	0.24 (ML)	0.20 (RI)	0.20 (LO)	0.20 (WE)	0.20 (LO)	0.21 (ML)	0.46 (ML)	0.15 (ML)	[0.13, 0.16]	0.18 (ML)	[0.15, 0.21]	
uni	6x	10	4	0.14 (RI)	0.18 (ML)	0.01 (ML)	0.02 (ML)	0.05 (ML)	0.06 (MM)	0.08 (WE)	0.22 (ML)	0.19 (ML)	0.16 (MM)	0.20 (RI)	0.20 (LO)	0.20 (LO)	0.48 (ML)	0.19 (ML)	[0.17, 0.21]	0.24 (ML)	[0.21, 0.28]	
uni	6x	10	5	0.11 (ML)	0.05 (RI)	0.01 (MM)	0.04 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.40 (RI)	0.22 (ML)	0.20 (MM)	0.30 (RI)	0.20 (RI), 0.10 (ML)	0.49 (ML)	0.18 (ML)	[0.16, 0.20]	0.27 (ML)	[0.24, 0.30]		
uni	6x	10	10	0.14 (ML)	0.20 (ML)	0.01 (MM)	0.07 (ML)	0.01 (MM)	0.00 (WE)	0.08 (WE)	0.22 (ML)	0.20 (RI), 0.10 (LO)	0.40 (RI), 0.10 (LO)	0.40 (LO)	0.55 (ML)	0.26 (WE)	[0.21, 0.31]	0.37 (ML)	[0.33, 0.40]			
uni	6x	10	15	0.15 (LO)	0.19 (RI)	0.00 (MM)	0.06 (ML)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.12 (MM)	0.20 (RI)	0.50 (RI), 0.17 (MM), 0.10 (MM)	0.36 (ML)	0.59 (ML)	0.34 (WE)	[0.29, 0.39]	0.40 (ML)	[0.36, 0.43]			
uni	6x	10	20	0.14 (LO)	0.21 (ML)	0.00 (MM)	0.07 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.11 (MM), 0.10 (LO)	0.10 (LO), 0.40 (RI)	0.30 (WE)	0.40 (RI)	0.50 (RI)	0.61 (ML)	0.42 (WE)	[0.37, 0.47]	0.45 (ML)	[0.42, 0.48]		
uni	6x	15	2	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.05 (MM)	0.01 (PD)	0.14 (VR)	0.14 (ML)	0.17 (VR)	0.18 (VR)	0.19 (FA)	0.51 (PD)	0.95 (PD)	0.25 (VR)	[0.24, 0.26]	0.34 (VR)	[0.32, 0.37]	
uni	6x	15	3	0.02 (RI)	0.00 (LO)	0.00 (LO)	0.01 (LO)	0.01 (ML)	0.01 (WE)	0.09 (WE)	0.20 (LO)	0.30 (LO)	0.13 (MM)	0.20 (RI), 0.10 (LO)	0.24 (ML)	0.46 (ML)	0.17 (ML)	[0.15, 0.19]	0.20 (ML)	[0.16, 0.23]		
uni	6x	15	4	0.03 (RI)	0.20 (ML)	0.01 (ML)	0.05 (ML)	0.02 (MM)	0.03 (MM)	0.08 (WE)	0.40 (WE)	0.19 (ML)	0.16 (MM)	0.20 (LO)	0.20 (ML), 0.10 (RI)	0.49 (ML)	0.20 (ML)	[0.18, 0.22]	0.27 (ML)	[0.23, 0.30]		
uni	6x	15	5	0.11 (ML)	0.10 (LO)	0.00 (MM)	0.06 (ML)	0.00 (RI)	0.00 (MM)	0.06 (WE)	0.26 (ML)	0.30 (RI)	0.19 (MM)	0.12 (MM), 0.10 (MM)	0.30 (LO), 0.10 (ML)	0.20 (ML)	0.20 (ML)	[0.18, 0.23]	0.31 (ML)	[0.28, 0.34]		
uni	6x	15	10	0.14 (RI)	0.21 (ML)	0.01 (MM)	0.07 (ML)	0.00 (LO)	0.00 (MM)	0.08 (WE)	0.20 (LO), 0.10 (MM)	0.10 (LO), 0.60 (LO)	0.20 (RI), 0.10 (LO)	0.40 (WE)	0.57 (ML)	0.27 (ML)	[0.25, 0.29]	0.40 (LO)	[0.31, 0.49]			
uni	6x	15	15	0.17 (ML)	0.20 (ML)	0.00 (ML)	0.07 (ML)	0.01 (MM)	0.00 (MM)	0.09 (WE)	0.30 (LO)	0.10 (RI), 0.50 (LO)	0.10 (LO), 0.20 (RI)	0.60 (LO)	0.46 (ML)	0.61 (ML)	0.34 (WE)	[0.29, 0.39]	0.42 (ML)	[0.39, 0.45]		
uni	6x	15	20	0.14 (LO)	0.22 (ML)	0.01 (MM)	0.06 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.10 (RI), 0.04 (ML)	0.43 (MM)	0.17 (MM), 0.10 (MM)	0.45 (ML)	0.66 (ML)	0.41 (WE)	[0.36, 0.45]	0.46 (RI)	[0.38, 0.54]			
uni	6x	20	2	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.00 (LO)	0.02 (VR)	0.00 (LO)	0.01 (PD)	0.20 (LO), 0.10 (VR)	0.30 (LO)	0.21 (VR)	0.24 (FA)	0.49 (PD)	0.93 (PD)	0.29 (VR)	[0.27, 0.30]	0.44 (VR)	[0.42, 0.46]		
uni	6x	20	3	0.11 (ML)	0.11 (WE)	0.02 (RI)	0.02 (ML)	0.00 (WE)	0.00 (LO)	0.09 (MM)	0.26 (ML)	0.15 (ML)	0.30 (RI)	0.30 (LO), 0.11 (ML)	0.30 (WE)	0.47 (ML)	0.18 (ML)	[0.16, 0.20]	0.22 (ML)	[0.18, 0.25]		
uni	6x	20	4	0.15 (RI)	0.21 (ML)	0.01 (ML)	0.05 (ML)	0.01 (RI)	0.00 (MM)	0.07 (WE)	0.30 (WE)	0.17 (ML)	0.40 (WE)	0.20 (MM), 0.10 (RI)	0.51 (ML)	0.22 (ML)	[0.20, 0.24]	0.28 (ML)	[0.24, 0.31]			
uni	6x	20	5	0.11 (RI)	0.16 (LO)	0.01 (ML)	0.06 (ML)	0.00 (LO)	0.00 (MM)	0.07 (WE)	0.26 (ML)	0.30 (RI)	0.30 (WE)	0.20 (LO), 0.10 (RI)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.32 (ML)	[0.29, 0.35]			
uni	6x	20	10	0.15 (ML)	0.22 (ML)	0.00 (LO)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.30 (RI)	0.11 (ML)	0.30 (RI), 0.14 (ML)	0.30 (RI), 0.27 (ML)	0.59 (ML)	0.29 (WE)	[0.24, 0.34]	0.40 (ML)	[0.37, 0.43]			
uni	6x	20	15	0.16 (ML)	0.17 (RI)	0.00 (ML)	0.06 (ML)	0.01 (MM)	0.01 (LO)	0.09 (WE)	0.30 (RI), 0.10 (RI)	0.14 (ML)	0.30 (WE)	0.43 (ML)	0.64 (ML)	0.37 (WE)	[0.32, 0.42]	0.41 (ML)	[0.38, 0.44]			
uni	6x	20	20	0.15 (LO)	0.22 (ML)	0.00 (MM)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.10 (LO), 0.10 (RI)	0.60 (RI)	0.22 (ML)	0.43 (ML)	0.50 (RI), 0.68 (ML)	0.40 (WE)	[0.36, 0.45]	0.45 (ML)	[0.42, 0.48]			

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	6x	50	2	0.00 (VR)	0.03 (VR)	0.01 (VR)	0.00 (ML)	0.00 (LO)	0.01 (VR)	0.01 (PD)	0.20 (LO,WE) 0.26 (VR)	0.30 (LO,WE) 0.22 (VR)	0.24 (VR)	0.47 (PD)	0.95 (PD)	0.45 (VR)	[0.44, 0.46]	0.65 (VR)	[0.63, 0.67]		
uni	6x	50	3	0.12 (LO)	0.08 (RI)	0.02 (MM)	0.03 (ML)	0.01 (MM)	0.01 (LO)	0.09 (MM)	0.17 (ML)	0.30 (RI)	0.17 (ML)	0.20 (RI)	0.30 (LO)	0.21 (ML)	0.47 (ML)	0.22 (ML)	[0.20, 0.24]	0.27 (ML)	[0.24, 0.31]
uni	6x	50	4	0.16 (LO)	0.21 (ML)	0.00 (ML)	0.06 (ML)	0.01 (LO)	0.02 (MM)	0.08 (WE)	0.22 (ML)	0.11 (ML)	0.30 (LO,WE) 0.21 (MM)	0.18 (ML)	0.40 (WE)	0.52 (ML)	0.26 (ML)	[0.24, 0.28]	0.32 (ML)	[0.29, 0.36]	
uni	6x	50	5	0.12 (ML)	0.14 (LO)	0.01 (ML)	0.06 (ML)	0.00 (RI)	0.00 (MM)	0.07 (WE)	0.27 (ML)	0.20 (WE)	0.30 (LO)	0.22 (MM)	0.40 (WE)	0.40 (LO)	0.52 (ML)	0.25 (ML)	[0.23, 0.27]	0.35 (ML)	[0.32, 0.39]
uni	6x	50	10	0.13 (LO)	0.22 (ML)	0.00 (ML)	0.08 (ML)	0.00 (WE)	0.01 (MM)	0.08 (WE)	0.40 (RI)	0.12 (MM)	0.20 (RI,LO) 0.20 (LO,WE) 0.20 (LO)	0.36 (ML)	0.60 (ML)	0.29 (WE)	[0.24, 0.34]	0.40 (ML)	[0.37, 0.43]		
uni	6x	50	15	0.17 (ML)	0.19 (LO)	0.01 (ML)	0.08 (ML)	0.01 (LO)	0.00 (MM)	0.09 (WE)	0.15 (MM)	0.11 (MM)	0.40 (RI,LO) 0.20 (RI,LO) 0.40 (RI)	0.51 (ML)	0.67 (ML)	0.38 (WE)	[0.34, 0.43]	0.41 (ML)	[0.38, 0.44]		
uni	6x	50	20	0.16 (LO)	0.23 (ML)	0.00 (MM)	0.07 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML,RIO) 0.05 (MM)	0.70 (LO)	0.20 (LO)	0.60 (RI,LO) 0.54 (ML)	0.72 (ML)	0.42 (WE)	[0.37, 0.46]	0.48 (LO)	[0.39, 0.55]		
uni	6x	100	2	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (PD)	0.28 (VR)	0.32 (VR)	0.41 (VR)	0.49 (VR)	0.60 (WE)	0.48 (PD)	0.94 (PD)	0.57 (VR)	[0.56, 0.59]	0.77 (VR)	[0.75, 0.78]
uni	6x	100	3	0.01 (RI)	0.03 (RI)	0.03 (LO)	0.02 (ML)	0.00 (MM)	0.02 (MM)	0.10 (MM)	0.30 (LO)	0.40 (LO,WE) 0.18 (MM)	0.20 (WE)	0.20 (RI)	0.19 (ML)	0.46 (ML)	0.23 (ML)	[0.21, 0.25]	0.28 (ML)	[0.25, 0.32]	
uni	6x	100	4	0.13 (LO)	0.23 (ML)	0.01 (ML)	0.06 (ML)	0.02 (ML)	0.02 (MM)	0.08 (WE)	0.24 (ML)	0.20 (RI,LO) 0.30 (LO,WE) 0.20 (MM,MI) 0.16 (ML)	0.36 (ML)	0.54 (ML)	0.26 (ML)	[0.24, 0.28]	0.34 (ML)	[0.31, 0.38]			
uni	6x	100	5	0.13 (ML)	0.09 (LO)	0.00 (MM)	0.08 (ML)	0.00 (WE)	0.00 (MM)	0.07 (WE)	0.29 (ML)	0.40 (RI)	0.20 (LO,WE) 0.27 (ML)	0.30 (WE)	0.40 (LO)	0.53 (ML)	0.25 (ML)	[0.23, 0.27]	0.36 (ML)	[0.32, 0.39]	
uni	6x	100	10	0.16 (ML)	0.22 (ML)	0.00 (ML)	0.09 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.31 (ML)	0.07 (MM)	0.12 (ML)	0.30 (RI)	0.13 (ML)	0.22 (ML)	0.59 (ML)	0.32 (WE)	[0.27, 0.37]	0.40 (ML)	[0.37, 0.43]
uni	6x	100	15	0.17 (ML)	0.18 (RI)	0.00 (ML)	0.08 (ML)	0.00 (LO)	0.00 (MM)	0.09 (WE)	0.17 (MM,MI) 0.06 (ML)	0.42 (ML)	0.20 (LO,WE) 0.50 (LO)	0.46 (ML)	0.68 (ML)	0.41 (WE)	[0.37, 0.46]	0.41 (ML)	[0.38, 0.44]		
uni	6x	100	20	0.15 (LO)	0.23 (ML)	0.00 (ML)	0.08 (ML)	0.01 (MM)	0.00 (ML)	0.08 (WE)	0.12 (MM,MI) 0.04 (MM,MI) 0.60 (LO)	0.10 (LO,WE) 0.60 (LO)	0.80 (LO)	0.73 (ML)	0.43 (WE)	[0.38, 0.47]	0.52 (LO)	[0.43, 0.59]			
uni	6x	500	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.01 (PD)	0.68 (VR)	0.67 (VR)	0.82 (VR)	0.73 (VR)	0.72 (VR)	0.75 (VR)	0.92 (PD)	0.70 (VR)	[0.69, 0.71]	0.94 (VR)	[0.94, 0.95]
uni	6x	500	3	0.07 (RI)	0.08 (LO)	0.02 (LO)	0.03 (ML)	0.01 (MM)	0.02 (MM)	0.09 (MM)	0.50 (WE)	0.10 (RI,WE) 0.28 (ML)	0.13 (ML)	0.10 (MM,MI) 0.21 (ML)	0.46 (ML)	0.24 (ML)	[0.22, 0.26]	0.30 (ML)	[0.26, 0.33]		
uni	6x	500	4	0.14 (RI)	0.23 (ML)	0.01 (ML)	0.06 (ML)	0.01 (ML)	0.02 (MM)	0.08 (WE)	0.19 (MM,MI) 0.10 (RI,LO) 0.50 (LO)	0.37 (MM)	0.30 (ML,RIO) 0.46 (ML)	0.60 (ML)	0.27 (ML)	[0.25, 0.29]	0.36 (ML)	[0.32, 0.39]			
uni	6x	500	5	0.13 (ML)	0.09 (LO)	0.00 (ML)	0.08 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.24 (ML)	0.20 (RI,LO) 0.40 (WE)	0.30 (MM)	0.40 (RI,LO) 0.50 (WE)	0.55 (ML)	0.26 (ML)	[0.24, 0.28]	0.37 (ML)	[0.33, 0.40]		
uni	6x	500	10	0.15 (LO)	0.23 (ML)	0.00 (ML)	0.09 (ML)	0.01 (LO)	0.00 (MM)	0.08 (WE)	0.30 (MM)	0.03 (MM)	0.10 (LO)	0.20 (RI,LO) 0.10 (LO)	0.16 (ML)	0.59 (ML)	0.32 (WE)	[0.26, 0.37]	0.41 (LO)	[0.31, 0.49]	
uni	6x	500	15	0.17 (LO)	0.19 (RI)	0.01 (ML)	0.08 (ML)	0.01 (LO)	0.00 (MM)	0.09 (WE)	0.18 (MM)	0.06 (MM)	0.50 (LO)	0.20 (RI,LO) 0.27 (ML)	0.38 (ML)	0.68 (ML)	0.41 (WE)	[0.37, 0.46]	0.42 (MM)	[0.39, 0.44]	
uni	6x	500	20	0.16 (LO)	0.23 (MM)	0.00 (ML)	0.08 (ML)	0.00 (RI)	0.00 (ML)	0.08 (WE)	0.12 (MM,MI) 0.03 (MM)	0.70 (LO)	0.10 (LO,WE) 0.54 (ML)	0.70 (LO)	0.73 (ML)	0.43 (WE)	[0.38, 0.47]	0.51 (LO)	[0.43, 0.58]		
uni	6x	1000	2	0.00 (VR)	0.01 (PD)	0.87 (VR)	0.79 (VR)	0.90 (LO,WE) 0.89 (VR)	0.86 (VR)	0.88 (VR)	0.91 (PD)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]						
uni	6x	1000	3	0.08 (RI)	0.07 (LO)	0.01 (LO)	0.03 (ML)	0.00 (MM)	0.01 (RI)	0.10 (MM)	0.50 (WE)	0.11 (MM)	0.25 (ML)	0.11 (MM)	0.10 (ML)	0.19 (ML)	0.46 (ML)	0.23 (ML)	[0.21, 0.25]	0.30 (ML)	[0.26, 0.33]
uni	6x	1000	4	0.14 (RI)	0.22 (ML)	0.02 (ML)	0.06 (ML)	0.01 (ML)	0.02 (MM)	0.08 (WE)	0.30 (WE)	0.20 (LO,WE) 0.50 (RI,LO) 0.34 (MM)	0.36 (ML)	0.49 (ML)	0.61 (ML)	0.27 (ML)	[0.25, 0.29]	0.36 (ML)	[0.33, 0.40]		
uni	6x	1000	5	0.13 (ML)	0.11 (LO)	0.00 (ML)	0.08 (ML)	0.01 (MM)	0.00 (MM)	0.07 (WE)	0.27 (ML)	0.30 (WE)	0.40 (WE)	0.34 (MM)	0.40 (LO,WE) 0.50 (WE)	0.55 (ML)	0.26 (ML)	[0.24, 0.28]	0.37 (ML)	[0.34, 0.41]	
uni	6x	1000	10	0.15 (LO)	0.22 (ML)	0.00 (ML)	0.09 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.30 (RI)	0.03 (MM,MI) 0.10 (LO)	0.20 (RI,LO) 0.00 (MM,MI) 0.14 (ML)	0.59 (ML)	0.32 (WE)	[0.27, 0.37]	0.40 (ML)	[0.37, 0.43]			
uni	6x	1000	15	0.17 (LO)	0.19 (RI)	0.01 (ML)	0.08 (ML)	0.00 (LO)	0.00 (WE)	0.09 (WE)	0.20 (RI,LO) 0.04 (MM)	0.25 (ML)	0.20 (RI,LO) 0.30 (LO)	0.40 (LO)	0.68 (ML)	0.40 (WE)	[0.36, 0.44]	0.42 (MM)	[0.39, 0.44]		
uni	6x	1000	20	0.16 (LO)	0.23 (MM)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (ML)	0.08 (WE)	0.12 (MM,MI) 0.03 (MM,MI) 0.80 (LO)	0.10 (WE)	0.60 (LO)	0.90 (LO)	0.73 (ML)	0.44 (WE)	[0.39, 0.48]	0.51 (LO)	[0.43, 0.58]		
uni	8x	5	2	0.04 (VR)	0.03 (WE)	0.00 (ML)	0.04 (VR)	0.02 (LO)	0.06 (FA)	0.00 (WE)	0.14 (VR)	0.20 (RI)	0.15 (VR)	0.10 (RI,LO) 0.20 (RI,WE) 0.30 (LO)	0.99 (PD)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.16]		
uni	8x	5	3	0.00 (ML)	0.26 (ML)	0.04 (ML)	0.00 (LO)	0.06 (ML)	0.07 (MM)	0.04 (MM)	0.20 (WE)	0.10 (LO,WE) 0.20 (RI)	0.20 (LO)	0.30 (ML)	0.20 (ML)	0.46 (ML)	0.04 (ML)	[0.00, 0.08]	0.08 (LO)	[0.00, 0.16]	
uni	8x	5	4	0.17 (ML)	0.16 (ML)	0.01 (ML)	0.08 (ML)	0.01 (MM)	0.02 (ML)	0.06 (WE)	0.20 (RI)	0.20 (WE)	0.10 (ML,LO) 0.14 (MM)	0.30 (LO)	0.14 (MM)	0.43 (ML)	0.04 (RI)	[0.01, 0.08]	0.18 (LO)	[0.10, 0.27]	
uni	8x	5	5	0.22 (ML)	0.20 (ML)	0.08 (ML)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.08 (WE)	0.30 (ML)	0.20 (RI)	0.16 (MM)	0.20 (ML,LO) 0.20 (ML)	0.30 (ML)	0.45 (ML)	0.09 (ML)	[0.03, 0.14]	0.13 (LO)	[0.04, 0.21]	
uni	8x	5	10	0.29 (ML)	0.28 (ML)	0.11 (MM)	0.16 (MM)	0.00 (ML)	0.01 (RI)	0.08 (WE)	0.20 (ML,LO) 0.10 (ML)	0.20 (WE)	0.14 (MM)	0.40 (ML)	0.40 (ML)	0.50 (ML)	0.13 (ML)	[0.06, 0.19]	0.13 (MM)	[0.10, 0.16]	
uni	8x	5	15	0.30 (MM)	0.29 (MM)	0.12 (MM)	0.06 (ML)	0.02 (ML)	0.02 (MM)	0.06 (WE)	0.01 (MM)	0.10 (RI,WE) 0.21 (MM)	0.30 (ML,WE) 0.20 (WE)	0.40 (ML,LO) 0.53 (ML)	0.14 (MM)	[0.12, 0.16]	0.25 (LO)	[0.15, 0.34]			
uni	8x	5	20	0.21 (ML)	0.28 (MM)	0.14 (ML)	0.13 (ML)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.20 (RI)	0.10 (ML,LO) 0.14 (MM)	0.20 (ML)	0.23 (MM)	0.40 (ML)	0.54 (ML)	0.19 (MM)	[0.17, 0.21]	0.25 (ML)	[0.13, 0.36]	

dist	2n	loci	al	RMSE						IC						CCC						
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
uni	8x	10	2	0.06 (VR)	0.02 (VR)	0.01 (VR)	0.02 (ML)	0.01 (VR)	0.00 (LO)	0.01 (PD)	0.20 (ML)	0.20 (WE)	0.20 (WE,WE 0.15)	0.15 (VR)	0.12 (VR)	0.40 (WE)	0.99 (PD)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.28]	
uni	8x	10	3	0.02 (ML)	0.22 (ML)	0.03 (RI)	0.02 (ML)	0.05 (LO)	0.02 (WE)	0.03 (WE)	0.20 (ML,WE 0.40)	0.20 (LO,WE 0.10)	0.10 (MM,RI 0.17)	0.17 (MM)	0.20 (LO,WE 0.40)	0.20 (LO)	0.20 (RI)	0.48 (ML)	0.05 (WE)	[0.01, 0.09]	0.11 (ML)	[0.03, 0.19]
uni	8x	10	4	0.13 (ML)	0.21 (ML)	0.10 (MM)	0.02 (ML)	0.06 (MM)	0.00 (ML)	0.09 (WE)	0.11 (MM)	0.10 (MM,RI 0.17)	0.17 (MM)	0.20 (LO,WE 0.40)	0.20 (LO)	0.20 (RI)	0.46 (ML)	0.09 (ML)	[0.04, 0.14]	0.09 (LO)	[−0.01, 0.18]	
uni	8x	10	5	0.23 (ML)	0.28 (ML)	0.11 (MM)	0.00 (ML)	0.01 (ML)	0.04 (ML)	0.09 (RI)	0.30 (RI)	0.20 (ML)	0.13 (MM)	0.20 (ML)	0.30 (RI)	0.30 (RI)	0.50 (ML)	0.13 (ML)	[0.07, 0.20]	0.11 (ML)	[0.00, 0.22]	
uni	8x	10	10	0.31 (MM)	0.29 (MM)	0.12 (MM)	0.11 (ML)	0.04 (ML)	0.01 (MM)	0.06 (WE)	0.04 (MM)	0.10 (RI,WE 0.20)	0.20 (ML)	0.30 (WE)	0.30 (RI,LI 0.14)	0.14 (MM)	0.51 (ML)	0.12 (MM)	[0.11, 0.14]	0.19 (ML)	[0.07, 0.30]	
uni	8x	10	15	0.29 (MM)	0.32 (MM)	0.11 (MM)	0.12 (ML)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.20 (RI)	0.17 (MM)	0.50 (ML)	0.30 (ML,RI 0.55)	0.16 (MM)	[0.14, 0.17]	0.28 (ML)	[0.17, 0.38]		
uni	8x	10	20	0.31 (ML)	0.28 (ML)	0.13 (MM)	0.14 (MM)	0.04 (MM)	0.00 (ML)	0.08 (WE)	0.10 (ML,RI 0.10)	0.20 (ML)	0.30 (ML)	0.16 (MM)	0.30 (RI)	0.50 (LO)	0.58 (ML)	0.19 (MM)	[0.18, 0.21]	0.35 (ML)	[0.24, 0.44]	
uni	8x	15	2	0.01 (VR)	0.04 (VR)	0.02 (ML)	0.01 (VR)	0.02 (LO)	0.02 (LO)	0.01 (PD)	0.15 (VR)	0.20 (WE)	0.14 (VR)	0.18 (VR)	0.21 (VR)	0.30 (PD)	0.99 (PD)	0.24 (VR)	[0.23, 0.26]	0.36 (VR)	[0.33, 0.38]	
uni	8x	15	3	0.02 (ML)	0.24 (ML)	0.00 (ML)	0.03 (ML)	0.00 (WE)	0.04 (MM)	0.07 (WE)	0.30 (LO)	0.20 (RI)	0.11 (MM)	0.20 (WE)	0.20 (LO)	0.15 (MM)	0.47 (ML)	0.05 (ML)	[0.00, 0.10]	0.15 (ML)	[0.07, 0.22]	
uni	8x	15	4	0.18 (ML)	0.16 (ML)	0.04 (ML)	0.06 (ML)	0.03 (MM)	0.03 (ML)	0.08 (WE)	0.12 (MM)	0.20 (LO)	0.10 (MM,MI 0.20)	0.20 (RI,LI 0.20)	0.20 (ML)	0.20 (ML)	0.47 (ML)	0.10 (ML)	[0.04, 0.16]	0.10 (RI)	[0.01, 0.18]	
uni	8x	15	5	0.23 (ML)	0.31 (ML)	0.11 (MM)	0.03 (ML)	0.04 (ML)	0.01 (LO)	0.09 (WE)	0.10 (MM,MI 0.10)	0.30 (LO)	0.40 (LO)	0.10 (RI,LI 0.20)	0.20 (WE)	0.49 (ML)	0.11 (ML)	[0.05, 0.17]	0.18 (ML)	[0.06, 0.29]		
uni	8x	15	10	0.30 (MM)	0.30 (MM)	0.11 (ML)	0.13 (ML)	0.01 (ML)	0.01 (ML)	0.07 (WE)	0.10 (WE)	0.10 (ML,RI 0.23)	0.30 (MM)	0.30 (RI,LI 0.40)	0.10 (LO)	0.50 (WE)	0.54 (ML)	0.14 (MM)	[0.12, 0.16]	0.17 (MM)	[0.14, 0.21]	
uni	8x	15	15	0.29 (MM)	0.32 (MM)	0.13 (MM)	0.13 (ML)	0.03 (ML)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.01 (MM)	0.21 (MM)	0.26 (MM)	0.40 (RI)	0.24 (MM)	0.58 (ML)	0.17 (MM)	[0.15, 0.19]	0.25 (MM)	[0.22, 0.29]	
uni	8x	15	20	0.30 (ML)	0.31 (ML)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.00 (ML)	0.06 (WE)	0.10 (ML)	0.01 (MM)	0.20 (MM)	0.17 (MM)	0.27 (MM)	0.22 (MM)	0.60 (ML)	0.21 (MM)	[0.19, 0.23]	0.29 (MM)	[0.26, 0.32]	
uni	8x	20	2	0.01 (VR)	0.03 (VR)	0.00 (ML)	0.02 (ML)	0.03 (VR)	0.01 (VR)	0.01 (PD)	0.40 (ML)	0.21 (VR)	0.30 (RI)	0.24 (VR)	0.26 (FA)	0.32 (PD)	0.98 (PD)	0.28 (VR)	[0.27, 0.29]	0.41 (VR)	[0.39, 0.44]	
uni	8x	20	3	0.12 (ML)	0.23 (ML)	0.03 (LO)	0.00 (ML)	0.04 (LO)	0.02 (RI)	0.08 (MM)	0.30 (RI)	0.40 (ML)	0.30 (RI)	0.20 (LO)	0.30 (LO,WE 0.40)	0.10 (LO)	0.47 (ML)	0.07 (ML)	[0.02, 0.12]	0.07 (MM)	[0.04, 0.10]	
uni	8x	20	4	0.18 (ML)	0.15 (ML)	0.00 (ML)	0.08 (ML)	0.02 (MM)	0.03 (MM)	0.09 (RI)	0.20 (ML)	0.20 (ML)	0.20 (ML)	0.10 (MM,MI 0.20)	0.20 (LO)	0.30 (LO)	0.50 (ML)	0.07 (ML)	[0.01, 0.13]	0.18 (LO)	[0.08, 0.28]	
uni	8x	20	5	0.28 (MM)	0.32 (ML)	0.09 (ML)	0.08 (ML)	0.01 (ML)	0.00 (LO)	0.07 (WE)	0.20 (ML)	0.10 (ML,RI 0.20)	0.20 (ML,RI 0.30)	0.10 (ML)	0.40 (LO)	0.20 (LO)	0.51 (ML)	0.15 (ML)	[0.09, 0.22]	0.14 (MM)	[0.11, 0.17]	
uni	8x	20	10	0.30 (MM)	0.31 (MM)	0.12 (MM)	0.13 (MM)	0.01 (ML)	0.01 (MM)	0.08 (WE)	0.08 (MM)	0.10 (ML,RI 0.27)	0.20 (MM)	0.20 (LO,WE 0.50)	0.10 (LO)	0.40 (RI,LI 0.52)	0.15 (ML)	[0.13, 0.17]	0.17 (MM)	[0.14, 0.21]		
uni	8x	20	15	0.27 (MM)	0.31 (MM)	0.12 (MM)	0.10 (ML)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM)	0.04 (MM)	0.23 (MM)	0.30 (ML)	0.30 (ML)	0.30 (LO)	0.58 (ML)	0.18 (MM)	[0.16, 0.20]	0.30 (ML)	[0.20, 0.40]	
uni	8x	20	20	0.31 (MM)	0.30 (MM)	0.14 (ML)	0.13 (MM)	0.02 (MM)	0.00 (ML)	0.07 (WE)	0.10 (ML,RI 0.03)	0.30 (MM)	0.30 (RI)	0.18 (MM)	0.20 (MM,LI 0.50)	0.10 (RI,LI 0.61)	0.22 (MM)	[0.20, 0.24]	0.31 (MM)	[0.28, 0.35]		
uni	8x	50	2	0.00 (ML)	0.00 (VR)	0.01 (ML)	0.01 (VR)	0.02 (VR)	0.01 (LO)	0.01 (PD)	0.26 (VR)	0.27 (VR)	0.29 (VR)	0.23 (VR)	0.25 (VR)	0.33 (FA)	0.99 (PD)	0.45 (VR)	[0.43, 0.46]	0.62 (VR)	[0.60, 0.64]	
uni	8x	50	3	0.03 (ML)	0.13 (ML)	0.05 (ML)	0.00 (ML)	0.06 (WE)	0.02 (WE)	0.07 (WE)	0.10 (ML,LI 0.30)	0.30 (ML)	0.20 (WE)	0.20 (ML)	0.50 (WE)	0.40 (LO)	0.48 (ML)	0.05 (WE)	[0.01, 0.10]	0.17 (ML)	[0.07, 0.25]	
uni	8x	50	4	0.24 (ML)	0.14 (ML)	0.09 (ML)	0.01 (ML)	0.03 (MM)	0.02 (ML)	0.08 (WE)	0.30 (ML)	0.20 (ML)	0.20 (RI,WE 0.15)	0.15 (MM)	0.20 (RI,WE 0.20)	0.10 (ML,LI 0.47)	0.11 (ML)	[0.04, 0.17]	0.15 (WE)	[0.05, 0.25]		
uni	8x	50	5	0.24 (ML)	0.28 (ML)	0.12 (MM)	0.06 (ML)	0.01 (ML)	0.01 (RI)	0.07 (WE)	0.20 (ML,RI 0.10)	0.20 (ML,RI 0.20)	0.10 (MM,WE 0.20)	0.10 (ML,LI 0.20)	0.20 (RI,LI 0.20)	0.20 (WE)	0.51 (ML)	0.15 (ML)	[0.08, 0.21]	0.16 (MM)	[0.13, 0.19]	
uni	8x	50	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.02 (MM)	0.19 (MM)	0.30 (LO)	0.40 (ML)	0.40 (RI,LI 0.56)	0.15 (MM)	[0.13, 0.17]	0.20 (MM)	[0.17, 0.24]		
uni	8x	50	15	0.28 (MM)	0.31 (MM)	0.13 (MM)	0.13 (MM)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.02 (MM)	0.23 (MM)	0.26 (MM)	0.50 (ML)	0.30 (RI,LI 0.58)	0.19 (MM)	[0.18, 0.21]	0.27 (MM)	[0.24, 0.30]		
uni	8x	50	20	0.30 (ML)	0.30 (MM)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.01 (ML)	0.07 (WE)	0.01 (MM)	0.03 (MM)	0.30 (RI)	0.23 (MM)	0.20 (ML,RI 0.20)	0.10 (RI,LI 0.59)	0.23 (MM)	[0.21, 0.25]	0.32 (MM)	[0.29, 0.35]		
uni	8x	100	2	0.01 (VR)	0.02 (VR)	0.01 (ML)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (PD)	0.35 (VR)	0.35 (VR)	0.39 (VR)	0.42 (VR)	0.38 (VR)	0.35 (PD,FA 1.00)	0.99 (PD)	0.56 (VR)	[0.55, 0.57]	0.78 (VR)	[0.77, 0.80]	
uni	8x	100	3	0.09 (ML)	0.19 (ML)	0.04 (RI)	0.01 (ML)	0.04 (RI)	0.00 (LO)	0.08 (WE)	0.10 (MM,MI 0.20)	0.20 (ML)	0.20 (ML,WE 0.30)	0.10 (RI,WE 0.24)	0.20 (MM)	0.30 (RI)	0.49 (ML)	0.10 (ML)	[0.05, 0.15]	0.16 (LO)	[0.07, 0.25]	
uni	8x	100	4	0.25 (ML)	0.16 (ML)	0.08 (ML)	0.11 (ML)	0.02 (MM)	0.02 (ML)	0.07 (WE)	0.20 (RI)	0.06 (MM)	0.20 (WE)	0.10 (ML,RI 0.30)	0.20 (LO)	0.30 (ML)	0.48 (ML)	0.13 (ML)	[0.07, 0.20]	0.17 (ML)	[0.05, 0.28]	
uni	8x	100	5	0.26 (ML)	0.29 (ML)	0.12 (MM)	0.06 (ML)	0.00 (ML)	0.02 (MM)	0.08 (WE)	0.40 (ML)	0.20 (ML)	0.20 (RI)	0.20 (RI,LI 0.20)	0.20 (ML)	0.20 (MM,MI 0.53)	0.18 (ML)	[0.11, 0.24]	0.18 (ML)	[0.07, 0.29]		
uni	8x	100	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.02 (MM)	0.01 (MM)	0.08 (WE)	0.07 (MM)	0.10 (ML,WE 0.20)	0.20 (MM,MI 0.30)	0.20 (WE)	0.50 (ML)	0.10 (RI,LI 0.59)	0.15 (MM)	[0.14, 0.17]	0.20 (MM)	[0.17, 0.24]		
uni	8x	100	15	0.29 (MM)	0.31 (MM)	0.13 (MM)	0.12 (ML)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.25 (MM)	0.29 (MM)	0.40 (ML,RI 0.30)	0.10 (ML,RI 0.54)	0.21 (MM)	[0.19, 0.22]	0.28 (MM)	[0.24, 0.31]		
uni	8x	100	20	0.31 (ML)	0.31 (MM)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML)	0.02 (MM)	0.25 (MM)	0.22 (MM)	0.20 (ML,RI 0.30)	0.10 (RI,LI 0.58)	0.24 (MM)	[0.22, 0.26]	0.33 (MM)	[0.30, 0.36]		

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	8x	500	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.00 (VR)	0.01 (PD)	0.69 (VR)	0.65 (VR)	0.64 (VR)	0.65 (VR)	0.77 (VR)	0.73 (VR)	1.00 (PD)	0.70 (VR)	[0.69,0.71]	0.95 (VR)	[0.94,0.95]
uni	8x	500	3	0.07 (ML)	0.11 (ML)	0.04 (ML)	0.08 (ML)	0.03 (RI)	0.01 (WE)	0.08 (WE)	0.40 (ML)	0.40 (ML)	0.40 (WE)	0.40 (WE)	0.20 (RI)	0.35 (MM)	0.50 (ML)	0.11 (ML)	[0.06,0.16]	0.17 (ML)	[0.07,0.25]
uni	8x	500	4	0.24 (ML)	0.16 (ML)	0.10 (ML)	0.08 (ML)	0.02 (MM)	0.00 (ML)	0.08 (WE)	0.20 (ML)	0.20 (ML)	0.20 (RI)	0.30 (RI)	0.40 (LO)	0.20 (ML)	0.50 (ML)	0.14 (ML)	[0.07,0.20]	0.21 (ML)	[0.09,0.32]
uni	8x	500	5	0.26 (ML)	0.31 (ML)	0.12 (MM)	0.06 (ML)	0.01 (ML)	0.01 (RI)	0.08 (WE)	0.20 (ML)	0.10 (ML)	0.30 (LO,WE)	0.30 (LO,WE)	0.10 (RI,WE)	0.10 (ML,RJ0.53)	0.18 (ML)	[0.11,0.25]	0.19 (ML)	[0.07,0.30]	
uni	8x	500	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.02 (ML)	0.08 (WE)	0.08 (MM)	0.10 (ML,RJ0.20)	0.20 (MM,RJ0.20)	0.40 (RI,LI0.45)	0.40 (ML,LI0.64)	0.16 (MM)	[0.14,0.18]	0.21 (MM)	[0.18,0.25]		
uni	8x	500	15	0.29 (MM)	0.31 (MM)	0.12 (MM)	0.12 (ML)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.27 (MM)	0.29 (MM)	0.60 (ML)	0.30 (ML,RJ0.51)	0.40 (ML)	[0.19,0.23]	0.28 (MM)	[0.25,0.31]	
uni	8x	500	20	0.30 (ML)	0.30 (MM)	0.14 (MM)	0.13 (MM)	0.03 (MM)	0.02 (MM)	0.07 (WE)	0.03 (MM)	0.01 (MM)	0.25 (MM)	0.26 (MM)	0.20 (ML,RJ0.40)	0.10 (LO)	0.57 (ML)	0.24 (MM)	[0.22,0.26]	0.33 (MM)	[0.30,0.36]
uni	8x	1000	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.00 (LO)	0.01 (PD)	0.84 (VR)	0.89 (VR)	1.00 (PD)	0.73 (VR)	[0.72,0.73]	0.97 (VR)	[0.97,0.97]				
uni	8x	1000	3	0.07 (ML)	0.13 (ML)	0.06 (RI)	0.08 (ML)	0.04 (WE)	0.03 (LO)	0.08 (WE)	0.40 (ML)	0.40 (ML)	0.40 (WE)	0.40 (WE)	0.10 (LO)	0.34 (MM)	0.52 (ML)	0.11 (ML)	[0.06,0.16]	0.21 (ML)	[0.11,0.29]
uni	8x	1000	4	0.24 (ML)	0.16 (ML)	0.10 (ML)	0.05 (ML)	0.03 (MM)	0.03 (ML)	0.09 (WE)	0.20 (ML)	0.20 (ML)	0.20 (RI)	0.10 (ML,RJ0.40)	0.30 (ML)	0.51 (ML)	0.15 (ML)	[0.08,0.21]	0.20 (ML)	[0.09,0.31]	
uni	8x	1000	5	0.27 (ML)	0.30 (ML)	0.12 (MM)	0.05 (ML)	0.01 (ML)	0.01 (RI)	0.08 (WE)	0.20 (ML)	0.10 (ML)	0.30 (LO,WE)	0.30 (LO,WE)	0.10 (MM,RJ0.40)	0.10 (ML,RJ0.55)	0.17 (ML)	[0.10,0.23]	0.19 (ML)	[0.07,0.30]	
uni	8x	1000	10	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.02 (MM)	0.08 (WE)	0.08 (MM)	0.10 (ML)	0.20 (RI,LI0.20)	0.20 (RI,LI0.50)	0.40 (ML,RJ0.65)	0.16 (MM)	[0.14,0.18]	0.21 (MM)	[0.17,0.25]		
uni	8x	1000	15	0.29 (MM)	0.32 (MM)	0.13 (MM)	0.13 (ML)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.03 (MM)	0.27 (MM)	0.29 (MM)	0.50 (ML,RJ0.30)	0.50 (ML,RJ0.51)	0.21 (MM)	[0.19,0.23]	0.28 (MM)	[0.25,0.32]	
uni	8x	1000	20	0.31 (ML)	0.30 (MM)	0.15 (MM)	0.14 (MM)	0.03 (MM)	0.02 (MM)	0.07 (WE)	0.03 (MM)	0.02 (MM)	0.25 (MM)	0.26 (MM)	0.20 (ML)	0.40 (RI,LI0.57)	0.24 (MM)	[0.22,0.26]	0.33 (MM)	[0.30,0.36]	
uni	4x*	5	2	0.02 (ML)	0.03 (VR)	0.04 (RI)	0.01 (LO)	0.03 (VR)	0.02 (WE)	0.03 (PD)	0.20 (RI)	0.10 (WE)	0.17 (MM)	0.17 (MM)	0.13 (FA)	0.43 (PD)	0.69 (PD)	0.11 (VR)	[0.10,0.12]	0.18 (VR)	[0.16,0.20]
uni	4x*	5	3	0.03 (RI)	0.11 (RI)	0.01 (MM)	0.01 (RI)	0.03 (MM)	0.04 (MM)	0.08 (RI)	0.20 (ML)	0.22 (ML)	0.20 (ML,LI0.17)	0.17 (ML)	0.30 (LO)	0.20 (RI)	0.45 (ML)	0.11 (ML)	[0.10,0.13]	0.19 (ML)	[0.16,0.22]
uni	4x*	5	4	0.09 (RI)	0.14 (ML)	0.03 (LO)	0.01 (ML)	0.01 (MM)	0.04 (MM)	0.07 (WE)	0.27 (ML)	0.19 (ML)	0.40 (WE)	0.21 (ML)	0.30 (LO)	0.30 (WE)	0.46 (ML)	0.16 (ML)	[0.14,0.18]	0.21 (ML)	[0.17,0.24]
uni	4x*	5	5	0.06 (ML)	0.08 (ML)	0.02 (MM)	0.00 (RI)	0.04 (ML)	0.00 (WE)	0.07 (WE)	0.25 (ML)	0.30 (RI,WE)	0.20 (RI,WE)	0.30 (LO,WE)	0.30 (LO,WE)	0.49 (ML)	0.21 (ML)	[0.19,0.23]	0.24 (LO)	[0.14,0.33]	
uni	4x*	5	10	0.12 (ML)	0.17 (ML)	0.01 (ML)	0.03 (ML)	0.03 (ML)	0.02 (MM)	0.07 (WE)	0.40 (RI,LI0.20)	0.20 (RI)	0.39 (ML)	0.36 (ML)	0.22 (MM)	0.30 (RI,LI0.51)	0.31 (ML)	[0.29,0.33]	0.43 (ML)	[0.40,0.46]	
uni	4x*	5	15	0.10 (LO)	0.15 (RI)	0.02 (ML)	0.01 (RI)	0.00 (MM)	0.03 (ML)	0.07 (WE)	0.21 (ML)	0.10 (MM,RJ0.45)	0.45 (ML)	0.44 (ML)	0.50 (LO)	0.30 (RI,LI0.56)	0.36 (ML)	[0.35,0.38]	0.49 (ML)	[0.46,0.52]	
uni	4x*	5	20	0.11 (ML)	0.17 (ML)	0.00 (LO)	0.04 (ML)	0.02 (MM)	0.00 (RI)	0.07 (WE)	0.21 (ML)	0.17 (ML)	0.49 (ML)	0.32 (ML)	0.34 (ML)	0.59 (ML)	0.39 (ML)	[0.37,0.40]	0.54 (ML)	[0.51,0.56]	
uni	4x*	10	2	0.04 (VR)	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.01 (LO)	0.01 (VR)	0.03 (PD)	0.17 (ML)	0.20 (LO)	0.17 (ML)	0.17 (ML)	0.30 (WE)	0.39 (PD)	0.73 (PD)	0.20 (VR)	[0.19,0.22]	0.29 (VR)	[0.26,0.31]
uni	4x*	10	3	0.06 (ML)	0.06 (LO)	0.00 (MM)	0.02 (ML)	0.04 (MM)	0.05 (MM)	0.09 (MM)	0.30 (LO)	0.30 (LO)	0.20 (LO)	0.24 (ML)	0.11 (ML)	0.30 (WE)	0.49 (ML)	0.19 (ML)	[0.17,0.20]	0.24 (ML)	[0.21,0.27]
uni	4x*	10	4	0.13 (ML)	0.16 (ML)	0.00 (WE)	0.04 (ML)	0.02 (WE)	0.01 (MM)	0.07 (WE)	0.30 (WE)	0.22 (ML)	0.22 (ML)	0.24 (ML)	0.15 (MM,RJ0.29)	0.50 (ML)	0.26 (WE)	[0.21,0.30]	0.27 (ML)	[0.23,0.30]	
uni	4x*	10	5	0.09 (ML)	0.16 (ML)	0.01 (MM)	0.03 (ML)	0.04 (MM)	0.01 (MM)	0.06 (WE)	0.21 (ML)	0.12 (ML)	0.30 (RI)	0.40 (RI)	0.21 (ML)	0.26 (ML)	0.53 (ML)	0.28 (ML)	[0.26,0.30]	0.34 (ML)	[0.31,0.37]
uni	4x*	10	10	0.12 (LO)	0.11 (LO)	0.00 (MM)	0.06 (ML)	0.01 (MM)	0.01 (MM)	0.09 (WE)	0.20 (WE)	0.20 (RI,WE)	0.50 (LO)	0.32 (ML)	0.32 (MM)	0.40 (LO)	0.58 (ML)	0.36 (ML)	[0.34,0.37]	0.49 (ML)	[0.47,0.52]
uni	4x*	10	15	0.13 (ML)	0.11 (LO)	0.00 (LO)	0.01 (RI)	0.00 (MM)	0.00 (LO)	0.08 (WE)	0.09 (ML)	0.10 (RI)	0.50 (LO)	0.50 (WE)	0.35 (MM)	0.60 (RI,LI0.62)	0.48 (WE)	[0.43,0.52]	0.54 (ML)	[0.52,0.57]	
uni	4x*	10	20	0.14 (ML)	0.16 (ML)	0.00 (ML)	0.06 (ML)	0.01 (LO)	0.00 (MM)	0.08 (WE)	0.10 (ML,RJ0.10)	0.10 (RI,LI0.63)	0.30 (RI,LI0.38)	0.30 (MM)	0.60 (LO)	0.66 (ML)	0.43 (WE)	[0.38,0.48]	0.60 (ML)	[0.58,0.63]	
uni	4x*	15	2	0.01 (VR)	0.02 (VR)	0.02 (ML)	0.03 (VR)	0.04 (VR)	0.04 (VR)	0.03 (PD)	0.30 (LO)	0.30 (LO,WE)	0.18 (VR)	0.18 (FA)	0.21 (MM)	0.34 (PD)	0.68 (PD)	0.26 (VR)	[0.24,0.27]	0.35 (VR)	[0.32,0.37]
uni	4x*	15	3	0.08 (ML)	0.12 (RI)	0.00 (MM)	0.00 (ML)	0.01 (MM)	0.04 (MM)	0.08 (WE)	0.20 (LO)	0.20 (LO)	0.40 (WE)	0.21 (ML)	0.50 (LO)	0.21 (ML)	0.51 (ML)	0.20 (ML)	[0.18,0.22]	0.29 (LO)	[0.20,0.37]
uni	4x*	15	4	0.03 (RI)	0.04 (RI)	0.01 (MM)	0.02 (ML)	0.02 (ML)	0.02 (MM)	0.08 (WE)	0.20 (RI,WE)	0.11 (MM)	0.30 (LO)	0.14 (ML)	0.20 (MM,RJ0.30)	0.53 (ML)	0.25 (ML)	[0.23,0.27]	0.35 (ML)	[0.32,0.38]	
uni	4x*	15	5	0.08 (WE)	0.12 (LO)	0.01 (MM)	0.05 (ML)	0.02 (ML)	0.03 (MM)	0.07 (WE)	0.30 (RI)	0.30 (RI)	0.32 (ML)	0.35 (ML)	0.70 (LO)	0.40 (LO)	0.56 (ML)	0.32 (ML)	[0.30,0.34]	0.43 (ML)	[0.39,0.46]
uni	4x*	15	10	0.11 (LO)	0.19 (ML)	0.01 (LO)	0.05 (LO)	0.01 (RI)	0.01 (MM)	0.08 (WE)	0.40 (LO,WE)	0.04 (MM,WE)	0.49 (ML)	0.32 (ML)	0.40 (LO)	0.41 (ML)	0.63 (ML)	0.39 (WE)	[0.34,0.44]	0.53 (ML)	[0.50,0.56]
uni	4x*	15	15	0.11 (LO)	0.15 (LO)	0.00 (ML)	0.05 (LO)	0.01 (RI)	0.00 (ML)	0.09 (WE)	0.10 (LO,WE)	0.05 (MM)	0.60 (WE)	0.30 (LO)	0.43 (ML)	0.80 (LO)	0.67 (ML)	0.48 (WE)	[0.43,0.52]	0.56 (ML)	[0.53,0.58]
uni	4x*	15	20	0.12 (LO)	0.18 (ML)	0.01 (ML)	0.06 (ML)	0.00 (WE)	0.00 (LO)	0.08 (WE)	0.20 (LO)	0.05 (ML)	0.80 (LO)	0.40 (LO)	0.70 (WE)	0.68 (ML)	0.71 (ML)	0.44 (WE)	[0.39,0.48]	0.62 (ML)	[0.59,0.64]

dist	2n	loci	al	RMSE						IC						CCC						
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
uni	4x*	20	2	0.01 (VR)	0.04 (VR)	0.02 (VR)	0.00 (LO)	0.00 (VR)	0.01 (VR)	0.03 (PD)	0.20 (WE)	0.20 (LO)	0.20 (VR)	0.21 (VR)	0.23 (VR)	0.35 (PD)	0.66 (PD)	0.30 (VR)	[0.29, 0.31]	0.44 (VR)	[0.41, 0.46]	
uni	4x*	20	3	0.00 (RI)	0.17 (ML)	0.00 (LO)	0.01 (ML)	0.01 (MM)	0.00 (MM)	0.07 (RI)	0.30 (LO)	0.20 (LO)	0.20 (ML)	RIO.20 (LO)	0.20 (RI)	WIO.20 (RI)	0.52 (ML)	0.24 (WE)	[0.19, 0.29]	0.35 (LO)	[0.26, 0.42]	
uni	4x*	20	4	0.14 (ML)	0.11 (LO)	0.00 (MM)	0.01 (LO)	0.00 (WE)	0.02 (MM)	0.08 (WE)	0.17 (ML)	0.20 (LO)	0.37 (ML)	0.23 (ML)	0.12 (MM)	0.31 (ML)	0.56 (ML)	0.28 (ML)	[0.26, 0.30]	0.37 (ML)	[0.34, 0.40]	
uni	4x*	20	5	0.08 (LO)	0.15 (ML)	0.01 (MM)	0.04 (ML)	0.01 (ML)	0.03 (ML)	0.07 (WE)	0.30 (RI)	WIO.10 (RI)	LIO.33 (ML)	0.30 (LO)	WIO.30 (MM)	LIO.40 (RI)	0.59 (ML)	0.31 (ML)	[0.29, 0.32]	0.44 (LO)	[0.34, 0.52]	
uni	4x*	20	10	0.08 (LO)	0.18 (ML)	0.01 (ML)	0.06 (LO)	0.00 (RI)	0.01 (LO)	0.08 (WE)	0.50 (LO)	0.03 (MM)	WIO.52 (ML)	0.25 (ML)	0.70 (RI)	0.50 (LO)	0.66 (ML)	0.40 (WE)	[0.35, 0.45]	0.56 (LO)	[0.48, 0.63]	
uni	4x*	20	15	0.09 (LO)	0.14 (RI)	0.01 (ML)	0.00 (LO)	0.00 (ML)	0.08 (WE)	0.30 (LO)	0.10 (LO)	WIO.60 (LO)	0.30 (RI)	LIO.50 (RI)	0.57 (ML)	0.71 (ML)	0.50 (WE)	[0.45, 0.54]	0.57 (ML)	[0.55, 0.60]		
uni	4x*	20	20	0.13 (LO)	0.18 (ML)	0.01 (ML)	0.06 (ML)	0.00 (ML)	0.00 (LO)	0.08 (WE)	0.07 (ML)	0.06 (ML)	0.60 (RI)	0.30 (ML)	RIO.60 (RI)	0.61 (ML)	0.75 (ML)	0.52 (WE)	[0.48, 0.56]	0.65 (LO)	[0.58, 0.71]	
uni	4x*	50	2	0.01 (VR)	0.01 (VR)	0.00 (ML)	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.03 (PD)	0.30 (VR)	0.21 (ML)	0.28 (VR)	0.37 (VR)	0.25 (VR)	0.46 (PD)	0.74 (PD)	0.47 (VR)	[0.45, 0.48]	0.66 (VR)	[0.64, 0.68]	
uni	4x*	50	3	0.01 (WE)	0.15 (RI)	0.00 (ML)	0.05 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.20 (RI)	LIO.14 (ML)	0.20 (RI)	0.08 (ML)	0.20 (LO)	0.22 (ML)	0.57 (ML)	0.29 (WE)	[0.24, 0.34]	0.38 (WE)	[0.29, 0.47]	
uni	4x*	50	4	0.13 (RI)	0.18 (RI)	0.01 (RI)	0.02 (LO)	0.01 (ML)	0.02 (MM)	0.08 (WE)	0.30 (RI)	0.20 (RI)	0.24 (MM)	0.09 (ML)	0.28 (ML)	0.37 (ML)	0.62 (ML)	0.33 (WE)	[0.28, 0.38]	0.41 (ML)	[0.38, 0.44]	
uni	4x*	50	5	0.12 (ML)	0.16 (ML)	0.00 (MM)	0.04 (LO)	0.01 (ML)	0.01 (ML)	0.07 (WE)	0.10 (LO)	0.10 (MM)	RIO.41 (ML)	0.50 (LO)	0.34 (ML)	0.50 (LO)	0.67 (ML)	0.35 (WE)	[0.30, 0.40]	0.45 (ML)	[0.41, 0.48]	
uni	4x*	50	10	0.10 (LO)	0.20 (ML)	0.01 (ML)	0.06 (LO)	0.00 (ML)	0.00 (MM)	0.08 (WE)	0.02 (MM)	WIO.01 (MM)	WIO.60 (LO)	0.30 (LO)	0.80 (RI)	LIO.80 (RI)	0.76 (ML)	0.49 (WE)	[0.44, 0.54]	0.60 (LO)	[0.52, 0.67]	
uni	4x*	50	15	0.09 (LO)	0.14 (LO)	0.01 (LO)	0.00 (LO)	0.00 (MM)	0.00 (RI)	0.08 (WE)	0.20 (LO)	0.03 (ML)	0.66 (ML)	0.60 (LO)	0.70 (ML)	0.80 (WE)	0.81 (ML)	0.53 (WE)	[0.49, 0.57]	0.60 (ML)	[0.58, 0.62]	
uni	4x*	50	20	0.12 (LO)	0.17 (LO)	0.01 (ML)	0.07 (ML)	0.00 (MM)	0.00 (RI)	0.08 (WE)	0.01 (ML)	0.04 (MM)	WIO.90 (RI)	0.17 (ML)	0.75 (ML)	0.90 (LO)	0.83 (ML)	0.57 (WE)	[0.54, 0.61]	0.68 (LO)	[0.62, 0.73]	
uni	4x*	100	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.03 (PD)	0.44 (VR)	0.30 (VR)	0.28 (VR)	0.42 (VR)	0.39 (VR)	0.52 (PD)	0.83 (PD)	0.59 (VR)	[0.58, 0.60]	0.79 (VR)	[0.78, 0.81]	
uni	4x*	100	3	0.01 (WE)	0.16 (LO)	0.01 (ML)	0.04 (ML)	0.00 (LO)	0.01 (MM)	0.09 (WE)	0.05 (MM)	0.15 (MM)	WIO.13 (ML)	0.30 (RI)	0.10 (RI)	0.24 (ML)	0.60 (ML)	0.28 (WE)	[0.23, 0.33]	0.35 (ML)	[0.32, 0.38]	
uni	4x*	100	4	0.13 (RI)	0.16 (RI)	0.00 (WE)	0.02 (RI)	0.01 (LO)	0.01 (RI)	0.08 (WE)	0.05 (MM)	0.10 (RI)	WIO.26 (ML)	0.20 (RI)	LIO.26 (ML)	0.39 (ML)	0.66 (ML)	0.35 (WE)	[0.30, 0.40]	0.41 (ML)	[0.38, 0.44]	
uni	4x*	100	5	0.11 (ML)	0.18 (ML)	0.00 (MM)	0.07 (ML)	0.01 (ML)	0.00 (ML)	0.07 (WE)	0.03 (ML)	0.13 (MM)	0.39 (ML)	0.08 (ML)	0.60 (LO)	0.49 (ML)	0.72 (ML)	0.40 (WE)	[0.35, 0.45]	0.46 (ML)	[0.43, 0.49]	
uni	4x*	100	10	0.11 (LO)	0.20 (ML)	0.02 (ML)	0.07 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.01 (ML)	0.04 (MM)	WIO.20 (RI)	0.20 (LO)	0.80 (LO)	0.64 (ML)	0.80 (ML)	0.47 (WE)	[0.43, 0.52]	0.63 (LO)	[0.56, 0.70]	
uni	4x*	100	15	0.10 (LO)	0.12 (LO)	0.00 (RI)	0.02 (LO)	0.00 (ML)	0.01 (ML)	0.08 (WE)	0.10 (LO)	WIO.05 (MM)	0.71 (ML)	0.30 (LO)	0.80 (LO)	0.90 (RI)	LIO.83 (ML)	0.55 (WE)	[0.51, 0.59]	0.61 (ML)	[0.58, 0.63]	
uni	4x*	100	20	0.13 (LO)	0.18 (ML)	0.00 (LO)	0.07 (ML)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.10 (LO)	WIO.03 (MM)	0.90 (RI)	LIO.20 (LO)	0.90 (LO)	0.78 (ML)	0.85 (ML)	0.56 (WE)	[0.53, 0.60]	0.68 (LO)	[0.63, 0.73]	
uni	4x*	500	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.03 (PD)	0.73 (VR)	0.68 (VR)	0.71 (VR)	0.74 (VR)	0.68 (VR)	0.63 (VR)	0.90 (PD)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]	
uni	4x*	500	3	0.01 (LO)	0.18 (ML)	0.00 (ML)	0.05 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.00 (MM)	WIO.20 (RI)	LIO.10 (RI)	0.00 (MM)	WIO.01 (MM)	WIO.13 (ML)	0.60 (ML)	0.32 (WE)	[0.27, 0.36]	0.39 (RI)	[0.30, 0.48]	
uni	4x*	500	4	0.15 (RI)	0.18 (RI)	0.01 (WE)	0.00 (RI)	0.00 (LO)	0.01 (RI)	0.08 (WE)	0.01 (MM)	WIO.10 (RI)	LIO.20 (RI)	0.00 (LE)	WIO.10 (RI)	0.50 (RI)	0.40 (RI)	0.67 (ML)	0.36 (WE)	[0.31, 0.41]	0.42 (ML)	[0.38, 0.45]
uni	4x*	500	5	0.12 (ML)	0.18 (ML)	0.00 (MM)	0.07 (ML)	0.02 (ML)	0.01 (ML)	0.07 (WE)	0.00 (MM)	WIO.10 (RI)	LIO.18 (ML)	0.00 (MM)	WIO.40 (LO)	0.41 (ML)	0.73 (ML)	0.42 (WE)	[0.37, 0.47]	0.48 (LO)	[0.39, 0.56]	
uni	4x*	500	10	0.12 (LO)	0.20 (LO)	0.02 (ML)	0.07 (LO)	0.00 (LO)	0.00 (ML)	0.08 (WE)	0.00 (MM)	WIO.02 (MM)	WIO.80 (LO)	0.10 (LO)	0.90 (LO)	0.80 (LO)	0.81 (ML)	0.51 (WE)	[0.46, 0.55]	0.62 (LO)	[0.54, 0.69]	
uni	4x*	500	15	0.10 (LO)	0.13 (LO)	0.00 (RI)	0.02 (LO)	0.00 (LO)	0.01 (ML)	0.08 (WE)	0.00 (MM)	WIO.03 (MM)	0.90 (RI)	LIO.10 (LO)	WIO.83 (ML)	1.00 (LO)	0.84 (ML)	0.57 (WE)	[0.54, 0.61]	0.61 (ML)	[0.58, 0.63]	
uni	4x*	500	20	0.13 (LO)	0.18 (ML)	0.02 (ML)	0.07 (ML)	0.00 (ML)	0.00 (RI)	0.08 (WE)	0.00 (MM)	WIO.03 (MM)	WIO.100 (RI)	LIO.20 (LO)	0.90 (ML)	WIO.92 (MM)	WIO.85 (ML)	0.57 (WE)	[0.54, 0.61]	0.69 (LO)	[0.63, 0.74]	
uni	4x*	1000	2	0.00 (VR)	0.03 (PD)	0.85 (VR)	0.89 (VR)	0.82 (VR)	0.85 (VR)	0.86 (VR)	0.88 (VR)	0.90 (PD)	0.74 (VR)	[0.73, 0.75]	0.97 (VR)	[0.97, 0.97]						
uni	4x*	1000	3	0.00 (LO)	0.18 (ML)	0.00 (ML)	0.06 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.01 (MM)	WIO.20 (RI)	LIO.00 (MM)	0.00 (MM)	WIO.00 (MM)	WIO.13 (ML)	0.60 (ML)	0.32 (WE)	[0.27, 0.37]	0.40 (RI)	[0.30, 0.48]	
uni	4x*	1000	4	0.16 (ML)	0.20 (LO)	0.00 (WE)	0.01 (RI)	0.01 (RI)	0.01 (ML)	0.08 (WE)	0.02 (MM)	WIO.10 (WE)	0.30 (RI)	0.10 (RI)	0.40 (RI)	0.30 (RI)	0.67 (ML)	0.37 (WE)	[0.32, 0.42]	0.42 (MM)	[0.39, 0.45]	
uni	4x*	1000	5	0.12 (ML)	0.18 (ML)	0.00 (MM)	0.08 (ML)	0.02 (ML)	0.01 (ML)	0.07 (WE)	0.01 (MM)	WIO.10 (RI)	LIO.12 (ML)	0.00 (MM)	WIO.30 (LO)	0.37 (ML)	0.73 (ML)	0.42 (WE)	[0.37, 0.47]	0.48 (LO)	[0.38, 0.56]	
uni	4x*	1000	10	0.11 (LO)	0.20 (ML)	0.02 (ML)	0.06 (LO)	0.00 (RI)	0.00 (ML)	0.08 (WE)	0.00 (MM)	WIO.04 (MM)	WIO.90 (LO)	0.30 (LO)	0.90 (RI)	LIO.83 (ML)	0.81 (ML)	0.50 (WE)	[0.46, 0.55]	0.63 (LO)	[0.55, 0.69]	
uni	4x*	1000	15	0.09 (LO)	0.13 (LO)	0.00 (RI)	0.01 (LO)	0.00 (RI)	0.01 (LO)	0.08 (WE)	0.00 (MM)	WIO.03 (MM)	WIO.91 (ML)	0.20 (LO)	0.90 (ML)	WIO.110 (RI)	0.84 (ML)	0.57 (WE)	[0.53, 0.61]	0.61 (LO)	[0.54, 0.67]	
uni	4x*	1000	20	0.12 (LO)	0.18 (ML)	0.01 (LO)	0.07 (LO)	0.00 (ML)	0.00 (WE)	0.08 (WE)	0.00 (MM)	WIO.03 (MM)	WIO.100 (RI)	0.30 (LO)	0.91 (MM)	WIO.93 (MM)	0.85 (ML)	0.59 (WE)	[0.55, 0.62]	0.70 (LO)	[0.64, 0.74]	

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	6x*	5	2	0.05 (ML)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.01 (MM)	0.15 (ML)	0.20 (WE)	0.20 (WE)	0.10 (RI), 0.10 (WE)	0.14 (VR)	0.47 (PD)	0.95 (PD)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]
uni	6x*	5	3	0.04 (ML)	0.05 (RI)	0.02 (WE)	0.07 (MM)	0.05 (MM)	0.00 (LO)	0.07 (MM)	0.20 (ML)	0.19 (ML)	0.20 (WE)	0.20 (LO), 0.20 (WE)	0.20 (LO)	0.21 (ML)	0.44 (ML)	0.09 (ML)	[0.07, 0.10]	0.11 (ML)	[0.08, 0.15]
uni	6x*	5	4	0.13 (ML)	0.18 (ML)	0.00 (RI)	0.00 (WE)	0.02 (RI)	0.03 (MM)	0.08 (WE)	0.30 (RI)	0.30 (WE)	0.30 (RI)	0.30 (LO), 0.30 (WE)	0.30 (LO)	0.22 (ML)	0.46 (ML)	0.13 (ML)	[0.11, 0.14]	0.15 (ML)	[0.12, 0.18]
uni	6x*	5	5	0.15 (LO)	0.20 (ML)	0.02 (MM)	0.00 (ML)	0.02 (MM)	0.07 (MM)	0.09 (WE)	0.15 (ML)	0.20 (WE)	0.16 (MM)	0.40 (LO)	0.30 (WE)	0.30 (ML)	0.48 (ML)	0.14 (ML)	[0.12, 0.16]	0.22 (ML)	[0.19, 0.26]
uni	6x*	5	10	0.09 (LO)	0.23 (ML)	0.01 (MM)	0.05 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.24 (ML)	0.10 (ML)	0.30 (LO)	0.20 (LO), 0.19 (MM)	0.25 (ML)	0.51 (ML)	0.24 (ML)	[0.22, 0.26]	0.40 (LO)	[0.31, 0.49]	
uni	6x*	5	15	0.08 (LO)	0.22 (ML)	0.01 (MM)	0.01 (LO)	0.02 (ML)	0.02 (MM)	0.08 (WE)	0.40 (RI)	0.11 (ML)	0.30 (RI)	0.24 (ML)	0.28 (MM)	0.29 (ML)	0.54 (ML)	0.27 (ML)	[0.25, 0.29]	0.38 (ML)	[0.35, 0.41]
uni	6x*	5	20	0.09 (LO)	0.21 (ML)	0.00 (RI)	0.03 (LO)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.40 (WE)	0.05 (MM), 0.60 (LO)	0.30 (RI), 0.26 (MM)	0.40 (RI), 0.54 (ML)	0.40 (RI), 0.54 (ML)	0.29 (ML)	[0.27, 0.31]	0.42 (ML)	[0.39, 0.45]		
uni	6x*	10	2	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.02 (PD)	0.15 (ML)	0.20 (LO)	0.10 (LO)	0.30 (LO), 0.17 (FA)	0.48 (PD)	0.96 (PD)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.28]	
uni	6x*	10	3	0.05 (RI)	0.16 (ML)	0.01 (LO)	0.01 (RI)	0.04 (LO)	0.02 (LO)	0.07 (WE)	0.30 (LO)	0.22 (ML)	0.10 (WE)	0.20 (RI), 0.13 (ML)	0.18 (ML)	0.46 (ML)	0.14 (ML)	[0.12, 0.16]	0.20 (WE)	[0.12, 0.29]	
uni	6x*	10	4	0.15 (ML)	0.20 (ML)	0.02 (WE)	0.00 (RI)	0.03 (MM)	0.01 (MM)	0.07 (WE)	0.18 (ML)	0.20 (ML)	0.18 (MM)	0.20 (RI)	0.19 (ML)	0.30 (WE)	0.48 (ML)	0.20 (ML)	[0.18, 0.22]	0.19 (ML)	[0.15, 0.22]
uni	6x*	10	5	0.16 (ML)	0.20 (ML)	0.01 (ML)	0.04 (ML)	0.01 (WE)	0.00 (LO)	0.08 (WE)	0.21 (ML)	0.16 (ML)	0.30 (LO)	0.20 (RI)	0.40 (RI), 0.30 (LO)	0.50 (ML)	0.21 (ML)	[0.19, 0.23]	0.28 (ML)	[0.24, 0.31]	
uni	6x*	10	10	0.12 (LO)	0.22 (ML)	0.00 (ML)	0.06 (ML)	0.01 (MM)	0.02 (RI)	0.08 (WE)	0.20 (RI)	0.09 (MM), 0.40 (RI)	0.27 (MM), 0.24 (ML)	0.29 (ML)	0.55 (ML)	0.28 (WE)	[0.23, 0.34]	0.49 (LO)	[0.40, 0.57]		
uni	6x*	10	15	0.15 (ML)	0.20 (ML)	0.00 (MM)	0.06 (ML)	0.00 (LO)	0.00 (MM)	0.08 (WE)	0.13 (ML)	0.13 (ML)	0.50 (RI)	0.40 (RI), 0.40 (RI)	0.60 (LO)	0.58 (ML)	0.32 (WE)	[0.27, 0.37]	0.47 (LO)	[0.38, 0.55]	
uni	6x*	10	20	0.09 (LO)	0.21 (ML)	0.01 (ML)	0.07 (LO)	0.01 (ML)	0.01 (WE)	0.08 (WE)	0.20 (RI)	0.10 (ML), 0.40 (WE)	0.20 (RI), 0.40 (RI)	0.19 (ML), 0.39 (ML)	0.62 (ML)	0.31 (WE)	[0.26, 0.36]	0.46 (LO)	[0.37, 0.54]		
uni	6x*	15	2	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.01 (LO)	0.02 (PD)	0.17 (VR)	0.19 (VR)	0.20 (LO), 0.17 (VR)	0.40 (LO)	0.45 (PD)	0.95 (PD)	0.25 (VR)	[0.23, 0.26]	0.36 (VR)	[0.33, 0.38]	
uni	6x*	15	3	0.09 (ML)	0.15 (RI)	0.00 (RI)	0.02 (ML)	0.04 (WE)	0.01 (LO)	0.07 (WE)	0.21 (ML)	0.13 (ML)	0.12 (MM), 0.30 (WE)	0.12 (ML)	0.18 (ML)	0.47 (ML)	0.16 (ML)	[0.14, 0.18]	0.21 (ML)	[0.18, 0.25]	
uni	6x*	15	4	0.15 (ML)	0.19 (ML)	0.01 (MM)	0.01 (LO)	0.04 (ML)	0.02 (MM)	0.06 (WE)	0.30 (ML)	0.16 (ML)	0.22 (MM)	0.20 (LO), 0.16 (MM)	0.20 (WE)	0.48 (ML)	0.20 (ML)	[0.18, 0.22]	0.25 (ML)	[0.21, 0.28]	
uni	6x*	15	5	0.13 (WE)	0.21 (ML)	0.00 (ML)	0.01 (RI)	0.01 (MM)	0.02 (LO)	0.08 (WE)	0.30 (ML), 0.16 (ML)	0.40 (RI)	0.30 (RI)	0.19 (ML)	0.40 (LO)	0.51 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.29, 0.36]	
uni	6x*	15	10	0.16 (ML)	0.22 (ML)	0.01 (MM)	0.07 (ML)	0.00 (RI)	0.00 (WE)	0.08 (WE)	0.17 (MM), 0.11 (ML)	0.40 (WE)	0.21 (ML)	0.60 (RI), 0.32 (ML)	0.57 (ML)	0.31 (WE)	[0.26, 0.36]	0.47 (LO)	[0.37, 0.55]		
uni	6x*	15	15	0.14 (LO)	0.22 (ML)	0.02 (MM)	0.06 (LO)	0.01 (MM)	0.00 (LO)	0.08 (WE)	0.20 (MM)	0.06 (ML)	0.60 (WE)	0.40 (WE), 0.40 (RI)	0.40 (RI), 0.62 (ML)	0.33 (WE)	[0.27, 0.37]	0.44 (LO)	[0.35, 0.52]		
uni	6x*	15	20	0.08 (LO)	0.21 (LO)	0.00 (MM)	0.03 (LO)	0.00 (MM)	0.00 (MM)	0.07 (WE)	0.14 (MM), 0.07 (ML)	0.41 (MM)	0.30 (RI), 0.60 (LO)	0.60 (LO)	0.66 (ML)	0.35 (WE)	[0.30, 0.40]	0.51 (LO)	[0.43, 0.58]		
uni	6x*	20	2	0.03 (VR)	0.03 (VR)	0.01 (VR)	0.01 (VR)	0.05 (MM)	0.04 (FA)	0.02 (PD)	0.20 (WE)	0.21 (VR)	0.20 (WE)	0.20 (WE)	0.19 (FA)	0.50 (PD)	0.93 (PD)	0.28 (VR)	[0.27, 0.29]	0.42 (VR)	[0.40, 0.45]
uni	6x*	20	3	0.09 (ML)	0.20 (ML)	0.01 (MM)	0.00 (ML)	0.01 (WE)	0.04 (RI)	0.07 (WE)	0.20 (ML), 0.30 (LO)	0.20 (RI)	0.20 (LO), 0.10 (WE)	0.50 (WE)	0.48 (ML)	0.18 (ML)	[0.16, 0.20]	0.25 (ML)	[0.21, 0.28]		
uni	6x*	20	4	0.16 (ML)	0.20 (ML)	0.02 (MM)	0.06 (LO)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.40 (RI)	0.20 (RI)	0.20 (WE)	0.20 (WE)	0.17 (ML)	0.50 (LO)	0.49 (ML)	0.21 (ML)	[0.19, 0.23]	0.26 (ML)	[0.22, 0.29]
uni	6x*	20	5	0.07 (LO)	0.21 (ML)	0.01 (ML)	0.00 (LO)	0.01 (MM)	0.00 (LO)	0.08 (WE)	0.22 (ML)	0.12 (ML)	0.30 (RI), 0.30 (LO)	0.49 (LO)	0.51 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.30, 0.36]		
uni	6x*	20	10	0.13 (LO)	0.23 (ML)	0.01 (MM)	0.08 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.18 (MM), 0.10 (RI)	0.10 (RI), 0.30 (LO)	0.20 (LO)	0.28 (ML)	0.50 (WE)	0.59 (ML)	0.31 (WE)	[0.26, 0.36]	0.46 (RI)	[0.37, 0.54]	
uni	6x*	20	15	0.17 (ML)	0.22 (LO)	0.00 (MM)	0.06 (LO)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.20 (LO), 0.20 (LO)	0.60 (RI)	0.30 (WE)	0.34 (ML)	0.40 (ML)	0.64 (ML)	0.34 (WE)	[0.29, 0.39]	0.45 (ML)	[0.42, 0.48]	
uni	6x*	20	20	0.11 (LO)	0.23 (ML)	0.00 (MM)	0.08 (LO)	0.01 (MM)	0.00 (RI)	0.08 (WE)	0.13 (ML)	0.08 (ML)	0.45 (ML)	0.50 (LO)	0.49 (ML)	0.58 (ML)	0.68 (ML)	0.36 (WE)	[0.31, 0.41]	0.48 (LO)	[0.39, 0.56]
uni	6x*	50	2	0.00 (VR)	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.03 (VR)	0.01 (VR)	0.01 (PD)	0.23 (VR)	0.27 (VR)	0.30 (WE)	0.30 (LO)	0.28 (VR)	0.52 (PD)	0.95 (PD)	0.46 (VR)	[0.44, 0.47]	0.65 (VR)	[0.63, 0.67]
uni	6x*	50	3	0.07 (LO)	0.20 (ML)	0.01 (MM)	0.02 (ML)	0.01 (WE)	0.05 (ML)	0.08 (WE)	0.40 (LO)	0.30 (LO), 0.20 (WE)	0.16 (MM)	0.11 (ML)	0.25 (ML)	0.48 (ML)	0.24 (ML)	[0.22, 0.26]	0.26 (ML)	[0.23, 0.30]	
uni	6x*	50	4	0.15 (ML)	0.21 (ML)	0.01 (MM)	0.03 (RI)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.30 (RI)	0.11 (ML)	0.30 (RI), 0.24 (MM)	0.20 (RI)	0.30 (RI)	0.52 (ML)	0.24 (ML)	[0.22, 0.26]	0.29 (ML)	[0.26, 0.33]	
uni	6x*	50	5	0.13 (LO)	0.22 (ML)	0.01 (ML)	0.01 (LO)	0.01 (MM)	0.01 (LO)	0.08 (WE)	0.23 (ML)	0.11 (MM)	0.12 (MM)	0.31 (MM)	0.20 (LO), 0.30 (LO)	0.54 (ML)	0.26 (ML)	[0.24, 0.28]	0.35 (ML)	[0.32, 0.38]	
uni	6x*	50	10	0.17 (ML)	0.24 (ML)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.14 (MM)	0.07 (MM)	0.60 (LO)	0.14 (ML)	0.20 (RI), 0.40 (LO)	0.61 (ML)	0.29 (WE)	[0.24, 0.34]	0.48 (LO)	[0.39, 0.56]	
uni	6x*	50	15	0.16 (LO)	0.23 (ML)	0.00 (RI)	0.05 (LO)	0.00 (LO)	0.01 (ML)	0.08 (WE)	0.19 (ML)	0.10 (RI)	0.40 (RI)	0.13 (MM)	0.40 (LO)	0.47 (ML)	0.67 (ML)	0.34 (WE)	[0.29, 0.38]	0.44 (ML)	[0.41, 0.47]
uni	6x*	50	20	0.10 (LO)	0.22 (LO)	0.00 (ML)	0.08 (LO)	0.00 (RI)	0.00 (ML)	0.08 (WE)	0.20 (RI), 0.02 (ML)	0.60 (LO)	0.10 (RI), 0.54 (ML)	0.55 (ML)	0.72 (ML)	0.39 (WE)	[0.34, 0.43]	0.45 (ML)	[0.42, 0.47]		

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
uni	6x*	100	2	0.01 (VR)	0.01 (VR)	0.00 (WE)	0.01 (ML)	0.01 (VR)	0.01 (VR)	0.02 (PD)	0.28 (VR)	0.37 (VR)	0.50 (WE)	0.37 (VR)	0.33 (VR)	0.48 (PD)	0.94 (PD)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.76, 0.79]
uni	6x*	100	3	0.03 (RI)	0.21 (ML)	0.01 (MM)	0.04 (ML)	0.02 (MM)	0.04 (ML)	0.08 (WE)	0.40 (LO)	0.20 (LO)	0.20 (LO)	0.50 (LO,WE)	0.30 (WE)	0.24 (ML)	0.49 (ML)	0.23 (ML)	[0.21, 0.25]	0.28 (ML)	[0.25, 0.32]
uni	6x*	100	4	0.16 (RI)	0.22 (ML)	0.00 (MM)	0.04 (RI)	0.02 (ML)	0.00 (LO)	0.07 (WE)	0.27 (ML)	0.10 (RI,LO)	0.50 (WE)	0.26 (MM)	0.40 (RI,LO)	0.50 (LO)	0.54 (ML)	0.25 (ML)	[0.23, 0.27]	0.31 (ML)	[0.28, 0.35]
uni	6x*	100	5	0.15 (LO)	0.22 (ML)	0.01 (ML)	0.02 (LO)	0.01 (MM)	0.01 (LO)	0.09 (WE)	0.40 (RI)	0.10 (LO,WE)	0.20 (RI)	0.26 (MM)	0.20 (LO,WE)	0.40 (WE)	0.54 (ML)	0.27 (ML)	[0.26, 0.29]	0.37 (ML)	[0.34, 0.41]
uni	6x*	100	10	0.16 (LO)	0.24 (ML)	0.00 (MM)	0.09 (ML)	0.00 (MM)	0.01 (MM)	0.08 (WE)	0.21 (ML)	0.04 (ML)	0.30 (LO)	0.18 (MM)	0.40 (LO)	0.31 (ML)	0.60 (ML)	0.31 (WE)	[0.26, 0.36]	0.51 (LO)	[0.42, 0.59]
uni	6x*	100	15	0.17 (LO)	0.23 (ML)	0.00 (MM)	0.07 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.21 (MM)	0.10 (RI,LO)	0.40 (LO)	0.20 (RI,WE)	0.30 (RI,LO)	0.41 (ML)	0.68 (ML)	0.37 (WE)	[0.32, 0.41]	0.46 (LO)	[0.37, 0.54]
uni	6x*	100	20	0.12 (LO)	0.23 (ML)	0.01 (ML)	0.08 (LO)	0.01 (LO)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (MM)	0.44 (ML)	0.10 (RI,LO)	0.49 (ML)	0.64 (ML)	0.73 (ML)	0.39 (WE)	[0.35, 0.44]	0.48 (LO)	[0.40, 0.55]
uni	6x*	500	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (PD)	0.67 (VR)	0.60 (VR)	0.74 (VR)	0.69 (VR)	0.82 (VR)	0.77 (VR)	0.92 (PD)	0.72 (VR)	[0.71, 0.72]	0.94 (VR)	[0.94, 0.95]	
uni	6x*	500	3	0.04 (RI)	0.20 (ML)	0.01 (MM)	0.03 (ML)	0.00 (WE)	0.02 (RI)	0.08 (WE)	0.50 (LO,WE)	0.10 (RI,LO)	0.17 (ML)	0.40 (WE)	0.10 (RI)	0.18 (ML)	0.47 (ML)	0.25 (ML)	[0.23, 0.27]	0.29 (ML)	[0.26, 0.33]
uni	6x*	500	4	0.16 (ML)	0.21 (ML)	0.01 (ML)	0.03 (RI)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.23 (ML)	0.10 (RI,WE)	0.50 (LO,WE)	0.33 (MM)	0.40 (WE)	0.50 (LO,WE)	0.61 (ML)	0.26 (ML)	[0.24, 0.28]	0.33 (ML)	[0.30, 0.36]
uni	6x*	500	5	0.16 (LO)	0.22 (ML)	0.01 (ML)	0.02 (LO)	0.01 (MM)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (ML)	0.30 (LO,WE)	0.32 (MM)	0.20 (LO,WE)	0.50 (WE)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.38 (ML)	[0.35, 0.41]
uni	6x*	500	10	0.14 (LO)	0.24 (ML)	0.00 (ML)	0.09 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.19 (MM)	0.01 (MM,LO)	0.01 (ML)	0.20 (ML)	0.03 (ML)	0.17 (ML)	0.60 (ML)	0.32 (WE)	[0.27, 0.37]	0.51 (LO)	[0.42, 0.59]
uni	6x*	500	15	0.17 (LO)	0.23 (LO)	0.00 (MM)	0.06 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.20 (MM,WE)	0.01 (ML)	0.14 (ML)	0.20 (RI,LO)	0.20 (RI,LO)	0.39 (ML)	0.68 (ML)	0.37 (WE)	[0.32, 0.41]	0.46 (LO)	[0.37, 0.54]
uni	6x*	500	20	0.12 (LO)	0.23 (LO)	0.00 (WE)	0.08 (LO)	0.00 (RI)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (MM)	0.50 (LO)	0.10 (RI,LO)	0.80 (LO)	0.73 (ML)	0.73 (ML)	0.40 (WE)	[0.35, 0.44]	0.50 (LO)	[0.42, 0.57]
uni	6x*	1000	2	0.00 (VR)	0.02 (PD)	0.79 (VR)	0.87 (VR)	0.83 (VR)	0.82 (VR)	0.85 (VR)	0.84 (VR)	0.91 (PD)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]					
uni	6x*	1000	3	0.11 (LO)	0.21 (ML)	0.00 (LO)	0.03 (ML)	0.00 (RI)	0.04 (ML)	0.08 (WE)	0.50 (LO,WE)	0.30 (LO)	0.24 (ML)	0.22 (ML)	0.20 (RI)	0.22 (ML)	0.47 (ML)	0.24 (ML)	[0.22, 0.26]	0.29 (ML)	[0.26, 0.33]
uni	6x*	1000	4	0.16 (ML)	0.22 (ML)	0.00 (MM)	0.02 (LO)	0.02 (ML)	0.00 (LO)	0.07 (WE)	0.22 (MM)	0.10 (RI,WE)	0.60 (WE)	0.28 (MM)	0.40 (WE)	0.50 (LO)	0.62 (ML)	0.26 (ML)	[0.24, 0.28]	0.33 (ML)	[0.30, 0.37]
uni	6x*	1000	5	0.15 (LO)	0.22 (ML)	0.01 (ML)	0.02 (LO)	0.01 (MM)	0.00 (WE)	0.08 (WE)	0.20 (RI)	0.10 (WE)	0.30 (WE)	0.33 (MM,LO)	0.30 (LO)	0.50 (WE)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.38 (ML)	[0.35, 0.41]
uni	6x*	1000	10	0.15 (LO)	0.24 (ML)	0.00 (ML)	0.09 (ML)	0.00 (MM)	0.00 (RI)	0.08 (WE)	0.20 (MM)	0.01 (MM,LO)	0.10 (LO)	0.18 (ML)	0.10 (RI,LO)	0.17 (ML)	0.60 (ML)	0.33 (WE)	[0.28, 0.37]	0.51 (LO)	[0.42, 0.59]
uni	6x*	1000	15	0.17 (LO)	0.23 (LO)	0.00 (MM)	0.06 (LO)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.20 (MM)	0.02 (MM,LO)	0.15 (ML)	0.20 (RI,LO)	0.30 (LO)	0.33 (ML)	0.68 (ML)	0.38 (WE)	[0.33, 0.42]	0.46 (LO)	[0.38, 0.54]
uni	6x*	1000	20	0.12 (LO)	0.23 (LO)	0.00 (WE)	0.08 (LO)	0.00 (LO)	0.00 (WE)	0.08 (WE)	0.30 (RI)	0.05 (MM)	0.60 (RI)	0.10 (RI,LO)	0.80 (LO)	0.74 (ML)	0.73 (ML)	0.40 (WE)	[0.36, 0.44]	0.50 (LO)	[0.42, 0.57]
uni	8x*	5	2	0.02 (VR)	0.03 (VR)	0.03 (VR)	0.00 (LO)	0.01 (VR)	0.01 (PD)	0.10 (RI,LO)	0.20 (LO)	0.14 (VR)	0.40 (LO)	0.15 (VR)	0.48 (PD)	0.99 (PD)	0.11 (VR)	[0.10, 0.12]	0.15 (VR)	[0.13, 0.17]	
uni	8x*	5	3	0.03 (ML)	0.38 (ML)	0.02 (ML)	0.08 (ML)	0.03 (ML)	0.03 (LO)	0.04 (MM)	0.10 (ML)	0.01 (MM)	0.20 (WE)	0.10 (RI,WE)	0.10 (ML,LO)	0.30 (WE)	0.44 (MM)	0.04 (MM)	[0.02, 0.05]	0.13 (ML)	[0.05, 0.20]
uni	8x*	5	4	0.13 (ML)	0.11 (ML)	0.02 (ML)	0.03 (ML)	0.04 (LO)	0.05 (MM)	0.04 (WE)	0.11 (MM)	0.20 (ML,LO)	0.20 (RI)	0.50 (ML)	0.20 (ML,LO)	0.16 (MM)	0.48 (ML)	0.07 (ML)	[0.02, 0.12]	0.17 (LO)	[0.09, 0.26]
uni	8x*	5	5	0.29 (ML)	0.33 (MM)	0.02 (ML)	0.14 (MM)	0.00 (RI)	0.03 (LO)	0.06 (WE)	0.20 (ML)	0.12 (MM)	0.20 (ML,LO)	0.20 (LO)	0.10 (RI,LO)	0.30 (ML)	0.44 (ML)	0.08 (LO)	[0.03, 0.12]	0.07 (MM)	[0.04, 0.09]
uni	8x*	5	10	0.28 (ML)	0.15 (ML)	0.10 (MM)	0.12 (MM)	0.00 (RI)	0.00 (MM)	0.07 (WE)	0.11 (MM)	0.20 (ML)	0.30 (LO)	0.20 (LO)	0.18 (MM)	0.50 (LO)	0.51 (ML)	0.14 (ML)	[0.07, 0.20]	0.19 (WE)	[0.10, 0.28]
uni	8x*	5	15	0.29 (MM)	0.32 (MM)	0.11 (MM)	0.13 (MM)	0.02 (ML)	0.01 (ML)	0.06 (WE)	0.11 (MM)	0.07 (MM)	0.20 (MM,LO)	0.40 (LO)	0.30 (ML)	0.40 (ML,WE)	0.56 (ML)	0.18 (WE)	[0.12, 0.23]	0.20 (MM)	[0.17, 0.24]
uni	8x*	5	20	0.28 (ML)	0.29 (MM)	0.11 (MM)	0.13 (MM)	0.00 (ML)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.09 (MM)	0.21 (MM)	0.30 (ML)	0.30 (ML)	0.23 (MM)	0.53 (ML)	0.22 (ML)	[0.16, 0.28]	0.29 (ML)	[0.18, 0.39]
uni	8x*	10	2	0.01 (VR)	0.06 (VR)	0.04 (VR)	0.01 (VR)	0.01 (WE)	0.00 (VR)	0.01 (PD)	0.20 (ML)	0.16 (VR)	0.16 (VR)	0.14 (VR)	0.20 (WE)	0.43 (PD)	0.99 (PD)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.28]
uni	8x*	10	3	0.06 (ML)	0.14 (ML)	0.06 (ML)	0.02 (ML)	0.01 (MM)	0.06 (MM)	0.20 (ML)	0.10 (ML,RI)	0.12 (MM)	0.30 (WE)	0.20 (RI,WE)	0.16 (MM)	0.46 (ML)	0.04 (MM)	[0.02, 0.05]	0.12 (ML)	[0.03, 0.20]	
uni	8x*	10	4	0.25 (ML)	0.31 (MM)	0.03 (ML)	0.09 (ML)	0.01 (ML)	0.01 (MM)	0.06 (WE)	0.30 (ML)	0.12 (MM)	0.20 (ML,RI)	0.12 (MM)	0.10 (ML,RI)	0.40 (WE)	0.48 (ML)	0.10 (ML)	[0.04, 0.16]	0.18 (LO)	[0.09, 0.27]
uni	8x*	10	5	0.29 (ML)	0.32 (ML)	0.07 (ML)	0.04 (ML)	0.01 (ML)	0.03 (MM)	0.07 (WE)	0.10 (RI,WE)	0.10 (ML)	0.20 (RI)	0.30 (ML)	0.11 (MM)	0.20 (ML)	0.49 (ML)	0.07 (MM)	[0.05, 0.08]	0.14 (ML)	[0.02, 0.25]
uni	8x*	10	10	0.23 (ML)	0.28 (ML)	0.11 (MM)	0.13 (ML)	0.02 (ML)	0.01 (MM)	0.07 (WE)	0.20 (ML)	0.20 (RI)	0.20 (ML,LO)	0.16 (MM)	0.20 (WE)	0.55 (ML)	0.14 (MM)	[0.12, 0.15]	0.19 (MM)	[0.16, 0.23]	
uni	8x*	10	15	0.29 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.01 (ML)	0.07 (WE)	0.03 (MM)	0.02 (MM)	0.19 (MM)	0.21 (MM)	0.30 (ML,LO)	0.30 (RI,LO)	0.57 (ML)	0.18 (MM)	[0.16, 0.19]	0.23 (MM)	[0.20, 0.27]
uni	8x*	10	20	0.31 (MM)	0.29 (MM)	0.12 (MM)	0.13 (ML)	0.02 (MM)	0.00 (ML)	0.07 (WE)	0.02 (MM)	0.10 (ML,RI)	0.23 (MM)	0.20 (ML,WE)	0.30 (MM,LO)	0.56 (ML)	0.21 (MM)	[0.19, 0.23]	0.31 (MM)	[0.28, 0.34]	

dist	2n	loci	al	RMSE						IC						CCC						
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
uni	8x*	15	2	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.04 (VR)	0.02 (VR)	0.04 (VR)	0.01 (PD)	0.11 (VR)	0.13 (VR)	0.30 (WE)	0.20 (WE)	0.23 (FA)	0.47 (PD)	0.99 (PD)	0.26 (VR)	[0.25, 0.27]	0.35 (VR)	[0.33, 0.38]	
uni	8x*	15	3	0.01 (ML)	0.16 (ML)	0.07 (ML)	0.08 (ML)	0.05 (ML)	0.00 (WE)	0.07 (MM)	0.20 (LD)	0.10 (RI)	0.12 (MM)	0.20 (RI), L0.11 (MM)	0.30 (LD)	0.43 (ML)	0.08 (ML)	[0.02, 0.13]	0.08 (WE)	[0.01, 0.16]		
uni	8x*	15	4	0.28 (WE)	0.25 (ML)	0.04 (ML)	0.14 (ML)	0.02 (WE)	0.01 (LD)	0.04 (WE)	0.10 (MM), L0.20 (WE)	0.14 (MM)	0.20 (ML)	0.20 (WE)	0.13 (MM)	0.49 (ML)	0.13 (ML)	[0.07, 0.19]	0.16 (RI)	[0.08, 0.24]		
uni	8x*	15	5	0.30 (MM)	0.32 (ML)	0.05 (ML)	0.10 (ML)	0.02 (MM)	0.04 (ML)	0.08 (LD)	0.11 (MM)	0.12 (MM)	0.20 (RI)	0.20 (RI)	0.20 (WE)	0.20 (WE)	0.49 (ML)	0.08 (MM)	[0.07, 0.10]	0.17 (MM)	[0.14, 0.20]	
uni	8x*	15	10	0.27 (ML)	0.29 (ML)	0.10 (MM)	0.14 (MM)	0.02 (ML)	0.00 (MM)	0.06 (WE)	0.10 (ML)	0.10 (ML), R0.17 (MM)	0.30 (ML)	0.25 (MM)	0.30 (ML)	0.54 (ML)	0.15 (MM)	[0.13, 0.16]	0.21 (WE)	[0.11, 0.31]		
uni	8x*	15	15	0.29 (MM)	0.32 (MM)	0.12 (MM)	0.15 (MM)	0.05 (MM)	0.00 (MM)	0.07 (WE)	0.10 (ML), R0.02 (MM)	0.30 (ML), R0.15 (MM)	0.40 (ML)	0.30 (ML), R0.30 (ML)	0.58 (ML)	0.19 (MM)	[0.17, 0.21]	0.25 (MM)	[0.21, 0.28]			
uni	8x*	15	20	0.31 (MM)	0.29 (MM)	0.12 (MM)	0.14 (ML)	0.02 (MM)	0.01 (MM)	0.08 (WE)	0.02 (MM)	0.05 (MM)	0.29 (MM)	0.22 (MM)	0.30 (RI), L0.28 (MM)	0.59 (ML)	0.22 (MM)	[0.20, 0.24]	0.32 (MM)	[0.29, 0.35]		
uni	8x*	20	2	0.02 (VR)	0.05 (VR)	0.02 (VR)	0.00 (ML)	0.04 (VR)	0.05 (PD)	0.01 (PD)	0.21 (VR)	0.14 (VR)	0.18 (VR)	0.13 (VR)	0.23 (VR)	0.50 (PD)	0.99 (PD)	0.28 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]	
uni	8x*	20	3	0.06 (ML)	0.18 (ML)	0.06 (ML)	0.03 (RI)	0.08 (ML)	0.02 (MM)	0.04 (WE)	0.20 (ML), R0.10 (LO)	0.10 (LO), W0.13 (MM)	0.30 (LO)	0.20 (WE)	0.30 (RI)	0.46 (ML)	0.05 (MM)	[0.03, 0.06]	0.14 (ML)	[0.05, 0.23]		
uni	8x*	20	4	0.31 (ML)	0.29 (ML)	0.07 (ML)	0.08 (ML)	0.02 (ML)	0.01 (LO)	0.08 (WE)	0.10 (ML)	0.30 (ML)	0.11 (MM)	0.30 (ML)	0.10 (LO), W0.40 (WE)	0.50 (ML)	0.08 (ML)	[0.02, 0.14]	0.12 (LO)	[0.04, 0.21]		
uni	8x*	20	5	0.31 (MM)	0.34 (MM)	0.08 (ML)	0.07 (ML)	0.00 (MM)	0.02 (MM)	0.06 (WE)	0.11 (MM)	0.20 (RI)	0.30 (RI)	0.12 (MM)	0.13 (MM)	0.20 (ML)	0.51 (ML)	0.10 (MM)	[0.08, 0.11]	0.14 (MM)	[0.10, 0.17]	
uni	8x*	20	10	0.31 (MM)	0.24 (ML)	0.11 (MM)	0.15 (MM)	0.03 (MM)	0.01 (MM)	0.06 (WE)	0.03 (MM)	0.20 (RI), W0.18 (MM)	0.20 (ML)	0.24 (MM)	0.15 (MM)	0.57 (ML)	0.16 (MM)	[0.14, 0.18]	0.20 (MM)	[0.17, 0.24]		
uni	8x*	20	15	0.29 (MM)	0.31 (MM)	0.12 (MM)	0.14 (MM)	0.05 (MM)	0.00 (MM)	0.07 (WE)	0.10 (ML)	0.02 (MM)	0.24 (MM)	0.20 (ML), R0.40 (ML)	0.21 (MM)	0.58 (ML)	0.20 (MM)	[0.18, 0.22]	0.26 (MM)	[0.22, 0.29]		
uni	8x*	20	20	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.07 (WE)	0.02 (MM)	0.02 (MM)	0.24 (MM)	0.20 (MM)	0.30 (ML), W0.40 (LO), W0.60 (ML)	0.23 (MM)	[0.21, 0.25]	0.32 (MM)	[0.29, 0.35]			
uni	8x*	50	2	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (PD)	0.30 (VR)	0.28 (VR)	0.29 (VR)	0.26 (VR)	0.32 (VR)	0.39 (PD)	0.99 (PD)	0.47 (VR)	[0.45, 0.48]	0.66 (VR)	[0.64, 0.67]	
uni	8x*	50	3	0.02 (ML)	0.13 (ML)	0.06 (ML)	0.02 (ML)	0.01 (ML)	0.01 (MM)	0.05 (WE)	0.20 (ML), W0.20 (ML)	0.20 (RI)	0.20 (RI)	0.20 (ML), R0.50 (LO)	0.46 (ML)	0.06 (MM)	[0.05, 0.08]	0.12 (RI)	[0.04, 0.20]			
uni	8x*	50	4	0.31 (MM)	0.27 (ML)	0.07 (ML)	0.05 (ML)	0.01 (ML)	0.01 (MM)	0.07 (WE)	0.15 (MM)	0.10 (MM), M0.16 (MM)	0.20 (RI), L0.16 (MM)	0.30 (LO), W0.50 (ML)	0.13 (ML)	[0.06, 0.19]	0.22 (ML)	[0.11, 0.33]				
uni	8x*	50	5	0.31 (MM)	0.32 (ML)	0.09 (MM)	0.07 (ML)	0.02 (MM)	0.03 (MM)	0.07 (WE)	0.14 (MM)	0.10 (ML), W0.30 (ML)	0.30 (ML)	0.14 (MM)	0.20 (MM)	0.51 (ML)	0.12 (MM)	[0.10, 0.13]	0.17 (MM)	[0.14, 0.20]		
uni	8x*	50	10	0.30 (ML)	0.27 (ML)	0.11 (MM)	0.15 (MM)	0.02 (MM)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.10 (ML), R0.22 (MM)	0.13 (MM)	0.29 (MM)	0.18 (MM)	0.58 (ML)	0.17 (MM)	[0.15, 0.19]	0.24 (MM)	[0.21, 0.28]		
uni	8x*	50	15	0.29 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.10 (ML)	0.24 (MM)	0.19 (MM)	0.30 (LO)	0.14 (MM)	0.56 (ML)	0.21 (MM)	[0.19, 0.23]	0.27 (MM)	[0.24, 0.31]	
uni	8x*	50	20	0.31 (MM)	0.30 (MM)	0.11 (MM)	0.15 (MM)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.03 (MM)	0.02 (MM)	0.32 (MM)	0.19 (MM)	0.30 (ML), R0.30 (LO), W0.58 (ML)	0.24 (MM)	[0.23, 0.26]	0.35 (MM)	[0.31, 0.38]			
uni	8x*	100	2	0.02 (VR)	0.02 (VR)	0.03 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (PD)	0.41 (VR)	0.44 (VR)	0.44 (VR)	0.43 (VR)	0.40 (VR)	0.47 (PD)	1.00 (PD)	0.57 (VR)	[0.56, 0.58]	0.78 (VR)	[0.77, 0.80]	
uni	8x*	100	3	0.05 (ML)	0.17 (ML)	0.05 (ML)	0.03 (ML)	0.08 (ML)	0.01 (MM)	0.05 (WE)	0.10 (LO), W0.10 (ML), R0.10 (ML)	0.10 (LO), R0.40 (LO)	0.29 (MM)	0.45 (ML)	0.07 (MM)	[0.05, 0.08]	0.17 (ML)	[0.08, 0.26]				
uni	8x*	100	4	0.30 (MM)	0.28 (ML)	0.04 (ML)	0.07 (ML)	0.03 (ML)	0.01 (MM)	0.07 (WE)	0.11 (MM)	0.10 (ML)	0.19 (MM)	0.20 (RI)	0.12 (MM)	0.30 (LO), W0.51 (ML)	0.12 (ML)	[0.06, 0.18]	0.24 (ML)	[0.12, 0.35]		
uni	8x*	100	5	0.31 (MM)	0.32 (ML)	0.10 (MM)	0.07 (ML)	0.01 (ML)	0.03 (MM)	0.07 (WE)	0.08 (MM)	0.09 (MM)	0.11 (MM)	0.20 (ML)	0.16 (MM)	0.14 (MM)	0.50 (ML)	0.12 (MM)	[0.10, 0.14]	0.18 (MM)	[0.15, 0.21]	
uni	8x*	100	10	0.30 (ML)	0.27 (ML)	0.11 (MM)	0.13 (MM)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.20 (ML)	0.21 (MM)	0.11 (MM)	0.28 (MM)	0.20 (WE)	0.60 (ML)	0.17 (MM)	[0.15, 0.19]	0.24 (MM)	[0.20, 0.27]	
uni	8x*	100	15	0.29 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.10 (ML)	0.30 (MM)	0.20 (MM)	0.40 (LO)	0.10 (ML), W0.56 (ML)	0.21 (MM)	[0.19, 0.23]	0.28 (MM)	[0.25, 0.32]		
uni	8x*	100	20	0.31 (MM)	0.30 (MM)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.03 (MM)	0.34 (MM)	0.28 (MM)	0.30 (ML), R0.20 (RI), L0.57 (ML)	0.25 (MM)	[0.23, 0.26]	0.35 (MM)	[0.32, 0.38]			
uni	8x*	500	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (PD)	0.71 (VR)	0.67 (VR)	0.75 (VR)	0.78 (VR)	0.72 (VR)	0.68 (VR)	1.00 (PD)	0.72 (VR)	[0.72, 0.73]	0.94 (VR)	[0.94, 0.95]	
uni	8x*	500	3	0.06 (ML)	0.12 (ML)	0.00 (ML)	0.06 (ML)	0.03 (ML)	0.00 (MM)	0.06 (WE)	0.50 (ML)	0.10 (ML), W0.04 (MM)	0.50 (LO)	0.20 (ML)	0.35 (MM)	0.45 (ML)	0.09 (ML)	[0.04, 0.15]	0.13 (ML)	[0.04, 0.22]		
uni	8x*	500	4	0.30 (MM)	0.29 (ML)	0.07 (ML)	0.09 (ML)	0.02 (ML)	0.01 (MM)	0.07 (WE)	0.10 (RI)	0.04 (MM)	0.13 (MM)	0.11 (MM)	0.12 (MM)	0.13 (MM)	0.53 (ML)	0.13 (ML)	[0.06, 0.19]	0.24 (ML)	[0.12, 0.35]	
uni	8x*	500	5	0.32 (MM)	0.33 (MM)	0.10 (MM)	0.07 (ML)	0.00 (MM)	0.02 (ML)	0.07 (WE)	0.10 (ML)	0.07 (MM)	0.10 (MM), M0.20 (ML)	0.14 (MM)	0.24 (MM)	0.50 (ML)	0.12 (MM)	[0.11, 0.14]	0.18 (MM)	[0.14, 0.21]		
uni	8x*	500	10	0.30 (MM)	0.27 (ML)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.05 (MM)	0.20 (ML)	0.18 (MM)	0.12 (MM)	0.35 (MM)	0.12 (MM)	0.67 (ML)	0.18 (MM)	[0.16, 0.20]	0.26 (MM)	[0.22, 0.29]	
uni	8x*	500	15	0.30 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.03 (MM)	0.33 (MM)	0.22 (MM)	0.50 (ML), L0.10 (ML), R0.53 (ML)	0.22 (MM)	[0.20, 0.24]	0.28 (MM)	[0.25, 0.32]			
uni	8x*	500	20	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.02 (MM)	0.32 (MM)	0.29 (MM)	0.30 (ML), R0.30 (LO), W0.56 (ML)	0.25 (MM)	[0.23, 0.27]	0.35 (MM)	[0.32, 0.38]			

dist	2n	loci	al	RMSE						IC						CCC							
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC		
uni	8x*	1000	2	0.00 (VR)	0.01 (ML)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.01 (PD)	0.85 (VR)	0.86 (VR)	0.90 (VR)	0.86 (VR)	0.88 (VR)	0.87 (VR)	1.00 (PD)	0.74 (VR)	[0.73, 0.75]	0.97 (VR)	[0.96, 0.97]		
uni	8x*	1000	3	0.06 (ML)	0.13 (ML)	0.02 (ML)	0.03 (ML)	0.04 (ML)	0.02 (MM)	0.06 (WE)	0.40 (ML)	0.20 (ML)	0.03 (MM)	0.50 (LO)	0.30 (RI)	0.40 (LO)	0.44 (ML)	0.10 (ML)	[0.05, 0.15]	0.16 (ML)	[0.07, 0.25]		
uni	8x*	1000	4	0.29 (ML)	0.29 (ML)	0.06 (ML)	0.10 (ML)	0.01 (ML)	0.00 (MM)	0.07 (WE)	0.10 (ML), R10.03 (MM)	0.10 (ML), L10.30 (ML)	0.15 (MM)	0.30 (WE)	0.53 (ML)	0.13 (ML)	[0.06, 0.19]	0.23 (ML)	[0.12, 0.34]				
uni	8x*	1000	5	0.32 (MM)	0.33 (MM)	0.10 (MM)	0.08 (ML)	0.00 (ML)	0.03 (MM)	0.07 (WE)	0.10 (ML), R10.09 (MM)	0.12 (MM)	0.20 (ML)	0.20 (RI)	0.22 (MM)	0.49 (ML)	0.13 (MM)	[0.11, 0.14]	0.18 (MM)	[0.14, 0.21]			
uni	8x*	1000	10	0.31 (MM)	0.26 (ML)	0.11 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.07 (WE)	0.06 (MM)	0.20 (ML)	0.20 (MM)	0.10 (ML), R10.36 (MM)	0.16 (MM)	0.68 (ML)	0.18 (MM)	[0.16, 0.20]	0.25 (MM)	[0.22, 0.29]			
uni	8x*	1000	15	0.30 (MM)	0.31 (MM)	0.11 (MM)	0.14 (MM)	0.04 (MM)	0.00 (MM)	0.08 (WE)	0.10 (ML)	0.03 (MM)	0.32 (MM)	0.23 (MM)	0.50 (ML), R10.10 (ML)	0.54 (ML)	0.22 (MM)	[0.20, 0.24]	0.28 (MM)	[0.25, 0.32]			
uni	8x*	1000	20	0.31 (MM)	0.30 (MM)	0.12 (MM)	0.14 (MM)	0.03 (MM)	0.00 (MM)	0.08 (WE)	0.02 (MM)	0.03 (MM)	0.36 (MM)	0.29 (MM)	0.30 (ML), R10.30 (RI)	0.56 (MM)	0.25 (MM)	[0.23, 0.27]	0.35 (MM)	[0.32, 0.38]			
tri	2x	5	2	0.02 (ML)	0.01 (MM)	0.00 (RI)	0.05 (VR)	0.00 (MM)	0.01 (MM)	0.02 (RI)	0.33 (ML)	0.20 (RI)	0.10 (LO), W10.20 (LO)	0.20 (RI)	0.20 (LO)	0.47 (ML)	0.15 (ML)	[0.14, 0.17]	0.18 (LO)	[0.11, 0.25]			
tri	2x	5	3	0.01 (MM)	0.01 (WE)	0.00 (LO)	0.03 (MM)	0.01 (LO)	0.01 (MM)	0.05 (WE)	0.51 (ML)	0.17 (ML)	0.12 (ML)	0.20 (RI)	0.12 (MM)	0.27 (ML)	0.50 (ML)	0.24 (ML)	[0.22, 0.25]	0.26 (ML)	[0.23, 0.28]		
tri	2x	5	4	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.03 (MM)	0.02 (WE)	0.01 (MM)	0.03 (WE)	0.71 (ML)	0.30 (WE)	0.18 (MM)	0.30 (WE)	0.30 (LO), W10.30 (LO)	0.52 (ML)	0.29 (ML)	[0.27, 0.30]	0.36 (ML)	[0.34, 0.39]			
tri	2x	5	5	0.01 (WE)	0.01 (MM)	0.01 (MM)	0.02 (LO)	0.03 (MM)	0.00 (LO)	0.09 (RI)	0.60 (ML)	0.21 (ML)	0.20 (RI), W10.30 (WE)	0.16 (MM)	0.27 (ML)	0.54 (ML)	0.34 (ML)	[0.33, 0.36]	0.45 (ML)	[0.42, 0.47]			
tri	2x	5	10	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.00 (RI)	0.01 (LO)	0.02 (WE)	0.06 (WE)	0.85 (ML)	0.30 (RI)	0.30 (RI)	0.30 (RI)	0.23 (MM)	0.40 (LO)	0.59 (ML)	0.50 (ML)	[0.49, 0.52]	0.66 (ML)	[0.64, 0.68]		
tri	2x	5	15	0.00 (MM)	0.01 (ML)	0.01 (RI)	0.00 (MM)	0.00 (MM)	0.01 (WE)	0.06 (WE)	0.72 (ML)	0.30 (RI), L10.30 (RI)	0.31 (MM)	0.30 (LO), W10.37 (ML)	0.63 (ML)	0.59 (ML)	[0.57, 0.60]	0.73 (ML)	[0.71, 0.75]				
tri	2x	5	20	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.02 (ML)	0.00 (MM)	0.02 (MM)	0.07 (WE)	0.85 (MM)	0.30 (LO)	0.30 (MM), R10.30 (LO)	0.50 (WE)	0.50 (ML)	0.66 (ML)	0.61 (ML)	[0.60, 0.62]	0.77 (ML)	[0.75, 0.78]			
tri	2x	10	2	0.01 (ML)	0.01 (MM)	0.00 (LO)	0.00 (VR)	0.03 (VR)	0.01 (MM)	0.08 (WE)	0.47 (ML)	0.27 (ML)	0.20 (LO)	0.10 (MM), R10.30 (WE)	0.25 (ML)	0.51 (ML)	0.26 (ML)	[0.24, 0.27]	0.32 (LO)	[0.24, 0.39]			
tri	2x	10	3	0.01 (MM)	0.00 (WE)	0.01 (MM)	0.02 (WE)	0.03 (RI)	0.02 (MM)	0.10 (MM)	0.59 (ML)	0.22 (ML)	0.20 (RI)	0.40 (LO)	0.14 (ML)	0.38 (ML)	0.54 (ML)	0.38 (ML)	[0.37, 0.40]	0.49 (ML)	[0.46, 0.51]		
tri	2x	10	4	0.03 (ML)	0.01 (RI)	0.02 (ML)	0.02 (ML)	0.01 (WE)	0.04 (LO)	0.07 (WE)	0.75 (ML)	0.29 (ML)	0.20 (WE)	0.40 (WE)	0.40 (LO)	0.40 (RI)	0.56 (ML)	0.47 (ML)	[0.46, 0.49]	0.57 (ML)	[0.55, 0.60]		
tri	2x	10	5	0.02 (RI)	0.01 (ML)	0.00 (MM)	0.01 (MM)	0.02 (ML)	0.03 (MM)	0.07 (WE)	0.82 (ML)	0.24 (MM)	0.30 (WE)	0.21 (MM)	0.30 (RI), L10.41 (ML)	0.57 (ML)	0.55 (ML)	[0.53, 0.56]	0.67 (ML)	[0.65, 0.69]			
tri	2x	10	10	0.00 (MM)	0.00 (MM)	0.00 (WE)	0.00 (ML)	0.00 (ML)	0.02 (MM)	0.06 (WE)	0.85 (ML)	0.50 (RI)	0.30 (ML)	0.60 (RI)	0.30 (ML)	0.40 (RI)	0.63 (ML)	0.64 (ML)	[0.63, 0.66]	0.77 (ML)	[0.76, 0.79]		
tri	2x	10	15	0.00 (LO)	0.00 (ML)	0.00 (ML)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.07 (WE)	0.79 (ML)	0.40 (RI)	0.37 (MM)	0.40 (LO)	0.40 (RI), L10.50 (RI)	0.69 (ML)	0.68 (ML)	[0.67, 0.69]	0.84 (ML)	[0.83, 0.85]			
tri	2x	10	20	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.07 (WE)	0.92 (MM)	0.50 (LO), W10.40 (WE)	0.40 (LO), W10.40 (LO)	0.40 (LO), W10.63 (ML)	0.70 (ML)	0.71 (ML)	[0.70, 0.72]	0.86 (ML)	[0.85, 0.87]				
tri	2x	15	2	0.01 (RI)	0.01 (VR)	0.00 (VR)	0.01 (PD)	0.01 (WE)	0.00 (LO)	0.02 (RI)	0.57 (ML)	0.40 (WE)	0.16 (VR)	0.20 (WE)	0.29 (VR)	0.40 (WE)	0.51 (ML)	0.33 (ML)	[0.31, 0.34]	0.40 (ML)	[0.38, 0.43]		
tri	2x	15	3	0.01 (LO)	0.00 (ML)	0.02 (MM)	0.00 (RI)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.67 (ML)	0.40 (RI)	0.40 (LO)	0.30 (WE)	0.20 (RI)	0.50 (LO)	0.55 (ML)	0.51 (ML)	[0.50, 0.53]	0.57 (ML)	[0.55, 0.59]		
tri	2x	15	4	0.01 (LO)	0.00 (MM)	0.01 (LO)	0.01 (LO)	0.00 (MM)	0.01 (RI)	0.06 (WE)	0.75 (ML)	0.24 (ML)	0.30 (LO)	0.30 (WE)	0.26 (ML)	0.44 (ML)	0.58 (ML)	0.58 (ML)	[0.57, 0.59]	0.69 (ML)	[0.68, 0.71]		
tri	2x	15	5	0.01 (WE)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.01 (ML)	0.00 (LO)	0.06 (WE)	0.85 (ML)	0.30 (WE)	0.30 (RI), L10.50 (LO)	0.50 (LO), W10.30 (RI)	0.45 (ML)	0.59 (ML)	0.63 (ML)	[0.61, 0.64]	0.74 (ML)	[0.73, 0.76]			
tri	2x	15	10	0.00 (RI)	0.01 (LO)	0.01 (RI)	0.00 (RI)	0.00 (WE)	0.00 (RI)	0.06 (WE)	0.85 (ML)	0.30 (RI)	0.50 (WE)	0.50 (RI), W10.38 (MM)	0.55 (ML)	0.67 (ML)	0.71 (ML)	[0.70, 0.72]	0.85 (ML)	[0.84, 0.86]			
tri	2x	15	15	0.00 (MM)	0.00 (ML)	0.00 (RI)	0.00 (ML)	0.00 (ML)	0.00 (LO)	0.06 (WE)	0.92 (ML)	0.40 (WE)	0.43 (ML)	0.70 (LO)	0.50 (RI)	0.58 (ML)	0.71 (ML)	0.73 (ML)	[0.72, 0.74]	0.88 (ML)	[0.88, 0.89]		
tri	2x	15	20	0.00 (RI)	0.02 (ML)	0.01 (ML)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.06 (WE)	0.95 (ML)	0.40 (RI), W10.46 (ML)	0.50 (LO)	0.50 (LO), W10.70 (RI)	0.74 (ML)	0.78 (WE)	[0.75, 0.80]	0.90 (ML)	[0.90, 0.91]				
tri	2x	20	2	0.00 (LO)	0.02 (WE)	0.01 (MM)	0.00 (ML)	0.01 (WE)	0.00 (VR)	0.07 (WE)	0.64 (ML)	0.34 (ML)	0.23 (VR)	0.50 (LO)	0.30 (RI)	0.28 (ML)	0.52 (ML)	0.40 (ML)	[0.38, 0.41]	0.46 (LO)	[0.38, 0.54]		
tri	2x	20	3	0.00 (MM)	0.00 (RI)	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.01 (MM)	0.07 (WE)	0.71 (ML)	0.50 (RI)	0.50 (LO)	0.30 (LO)	0.22 (MM)	0.40 (ML)	0.56 (ML)	0.58 (ML)	[0.57, 0.60]	0.65 (ML)	[0.63, 0.67]		
tri	2x	20	4	0.01 (MM)	0.00 (ML)	0.00 (RI)	0.00 (ML)	0.02 (LO)	0.00 (MM)	0.07 (WE)	0.78 (ML)	0.30 (MM)	0.40 (RI)	0.40 (LO)	0.30 (WE)	0.36 (ML)	0.59 (ML)	0.64 (ML)	[0.62, 0.65]	0.76 (ML)	[0.74, 0.78]		
tri	2x	20	5	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.01 (ML)	0.01 (ML)	0.01 (MM)	0.06 (WE)	0.73 (ML)	0.50 (LO)	0.40 (LO)	0.40 (LO)	0.50 (LO)	0.80 (LO)	0.61 (ML)	0.68 (ML)	[0.67, 0.70]	0.81 (ML)	[0.79, 0.82]		
tri	2x	20	10	0.00 (RI)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (WE)	0.00 (ML)	0.06 (WE)	0.92 (ML)	0.50 (RI)	0.60 (WE)	0.50 (RI), W10.80 (WE)	0.60 (RI)	0.60 (RI), W10.69 (ML)	0.73 (WE)	[0.70, 0.75]	0.89 (ML)	[0.88, 0.90]			
tri	2x	20	15	0.00 (MM)	0.01 (MM)	0.00 (ML)	0.01 (RI)	0.00 (MM)	0.00 (ML)	0.06 (WE)	0.94 (MM)	0.47 (ML)	0.60 (WE)	0.40 (RI), W10.60 (LO)	0.60 (LO)	0.74 (ML)	0.76 (WE)	[0.74, 0.79]	0.91 (ML)	[0.90, 0.91]			
tri	2x	20	20	0.01 (MM)	0.01 (ML)	0.00 (ML)	0.00 (MM)	0.00 (RI)	0.00 (WE)	0.07 (WE)	0.98 (MM)	0.42 (ML)	0.50 (ML), R10.50 (MM)	0.60 (RI), R10.60 (RI)	0.64 (ML)	0.76 (ML)	0.81 (WE)	[0.79, 0.83]	0.92 (ML)	[0.91, 0.92]			

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	2x	50	2	0.00 (MM)	0.00 (VR)	0.00 (PD)	0.00 (VR)	0.01 (MM)	0.02 (LO)	0.06 (RI)	0.70 (ML)	0.37 (ML)	0.30 (LO)	0.30 (LO)	0.39 (ML)	0.57 (ML)	0.64 (ML)	[0.62, 0.65]	0.75 (ML)	[0.73, 0.77]	
tri	2x	50	3	0.00 (MM)	0.00 (MM)	0.01 (LO)	0.00 (WE)	0.00 (MM)	0.01 (WE)	0.06 (WE)	0.83 (ML)	0.43 (ML)	0.50 (WE)	0.44 (ML)	0.38 (MM)	0.41 (ML)	0.63 (ML)	0.73 (ML)	[0.72, 0.74]	0.85 (ML)	[0.84, 0.86]
tri	2x	50	4	0.01 (RI)	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (MM)	0.00 (MM)	0.07 (WE)	0.92 (ML)	0.60 (RI)	0.43 (ML)	0.60 (LO)	0.60 (LO)	0.70 (RI)	0.67 (ML)	0.75 (ML)	[0.74, 0.75]	0.90 (ML)	[0.89, 0.90]
tri	2x	50	5	0.01 (MM)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.00 (ML)	0.00 (MM)	0.06 (WE)	0.90 (ML)	0.60 (RI)	0.54 (ML)	0.80 (RI)	0.80 (LO)	0.80 (LO)	0.70 (ML)	0.78 (WE)	[0.75, 0.80]	0.91 (ML)	[0.90, 0.92]
tri	2x	50	10	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.00 (MM)	0.00 (ML)	0.00 (ML)	0.06 (WE)	0.97 (ML)	0.65 (ML)	0.70 (RI)	0.69 (MM)	0.90 (RI)	0.73 (ML)	0.78 (ML)	0.86 (WE)	[0.84, 0.88]	0.95 (ML)	[0.94, 0.95]
tri	2x	50	15	0.00 (MM)	0.00 (LO)	0.07 (WE)	0.98 (MM)	0.65 (ML)	0.73 (MM)	0.71 (MM)	0.80 (RI)	0.75 (ML)	0.83 (ML)	0.89 (WE)	[0.88, 0.90]	0.96 (ML)	[0.95, 0.96]				
tri	2x	50	20	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.01 (LO)	0.07 (WE)	0.99 (ML)	0.56 (ML)	0.70 (WE)	0.80 (RI)	0.75 (MM)	0.85 (ML)	0.86 (ML)	0.89 (WE)	[0.88, 0.90]	0.96 (ML)	[0.96, 0.97]
tri	2x	100	2	0.01 (MM)	0.00 (VR)	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.02 (RI)	0.86 (ML)	0.42 (MM)	0.46 (ML)	0.41 (ML)	0.43 (PD)	0.50 (ML)	0.64 (ML)	0.73 (ML)	[0.72, 0.74]	0.86 (ML)	[0.85, 0.87]
tri	2x	100	3	0.00 (MM)	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.00 (MM)	0.00 (MM)	0.05 (WE)	0.88 (ML)	0.60 (RI)	0.70 (LO)	0.55 (ML)	0.51 (ML)	0.59 (ML)	0.70 (ML)	0.77 (ML)	[0.76, 0.78]	0.92 (ML)	[0.91, 0.92]
tri	2x	100	4	0.00 (MM)	0.00 (MM)	0.01 (ML)	0.00 (ML)	0.00 (RI)	0.00 (LO)	0.07 (WE)	0.91 (ML)	0.57 (ML)	0.60 (LO)	0.60 (WE)	0.58 (ML)	0.72 (ML)	0.75 (ML)	0.83 (WE)	[0.81, 0.85]	0.94 (ML)	[0.94, 0.94]
tri	2x	100	5	0.00 (RI)	0.01 (ML)	0.01 (ML)	0.00 (ML)	0.00 (RI)	0.00 (WE)	0.06 (WE)	1.00 (RI)	0.70 (RI)	0.90 (RI)	0.80 (ML)	0.66 (ML)	0.70 (ML)	0.76 (ML)	0.88 (WE)	[0.86, 0.89]	0.94 (ML)	[0.94, 0.95]
tri	2x	100	10	0.00 (MM)	0.00 (ML)	0.01 (LO)	0.00 (LO)	0.01 (ML)	0.00 (RI)	0.07 (WE)	1.00 (ML)	0.90 (RI)	0.90 (LO)	0.81 (MM)	0.90 (LO)	1.00 (RI)	0.85 (ML)	0.92 (WE)	[0.91, 0.93]	0.96 (ML)	[0.96, 0.97]
tri	2x	100	15	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.00 (RI)	0.00 (RI)	0.00 (RI)	0.06 (WE)	1.00 (MM)	0.82 (ML)	0.90 (LO)	0.90 (RI)	0.90 (RI)	1.00 (RI)	0.87 (ML)	0.93 (WE)	[0.92, 0.94]	0.97 (LO)	[0.96, 0.98]
tri	2x	100	20	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.01 (LO)	0.01 (RI)	0.01 (LO)	0.06 (WE)	1.00 (MM)	0.90 (LO)	0.90 (RI)	1.00 (LO)	0.84 (MM)	0.91 (ML)	0.89 (ML)	0.92 (WE)	[0.91, 0.93]	0.97 (LO)	[0.97, 0.98]
tri	2x	500	2	0.00 (LO)	0.00 (ML)	0.02 (RI)	0.99 (ML)	0.90 (LO)	0.79 (PD)	0.77 (ML)	0.74 (VR)	0.85 (VR)	0.79 (ML)	0.88 (WE)	[0.87, 0.90]	0.96 (ML)	[0.96, 0.97]				
tri	2x	500	3	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.00 (MM)	0.01 (ML)	0.07 (WE)	1.00 (ML)	1.00 (LO)	1.00 (RI)	1.00 (LO)	0.90 (LO)	0.90 (LO)	0.85 (ML)	0.92 (WE)	[0.91, 0.93]	0.97 (ML)	[0.97, 0.98]
tri	2x	500	4	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (ML)	0.97 (ML)	0.96 (ML)	0.90 (ML)	1.00 (LO)	0.95 (ML)	0.87 (ML)	0.93 (WE)	[0.93, 0.94]	0.98 (LO)	[0.97, 0.98]
tri	2x	500	5	0.00 (MM)	0.00 (ML)	0.01 (ML)	0.00 (ML)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM)	0.94 (MM)	0.95 (ML)	1.00 (RI)	0.97 (ML)	1.00 (RI)	0.89 (ML)	0.94 (WE)	[0.93, 0.95]	0.98 (LO)	[0.98, 0.99]
tri	2x	500	10	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.01 (ML)	0.00 (LO)	0.01 (LO)	0.07 (WE)	1.00 (MM)	1.00 (RI)	1.00 (RI)	1.00 (RI)	1.00 (RI)	1.00 (ML)	0.90 (ML)	0.96 (WE)	[0.96, 0.96]	0.99 (LO)	[0.99, 0.99]
tri	2x	500	15	0.00 (MM)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	1.00 (ML)	1.00 (RI)	1.00 (LO)	1.00 (MM)	1.00 (ML)	0.96 (WE)	[0.96, 0.96]	0.99 (LO)	[0.99, 0.99]	
tri	2x	500	20	0.00 (ML)	0.00 (RI)	0.00 (LO)	0.01 (ML)	0.01 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	1.00 (ML)	1.00 (RI)	1.00 (LO)	1.00 (MM)	1.00 (ML)	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]	
tri	2x	1000	2	0.00 (MM)	0.00 (LO)	0.00 (PD)	0.01 (ML)	0.00 (ML)	0.00 (ML)	0.01 (RI)	1.00 (ML)	1.00 (LO)	0.96 (ML)	0.91 (ML)	0.90 (ML)	0.92 (ML)	0.85 (ML)	0.93 (WE)	[0.92, 0.94]	0.97 (ML)	[0.97, 0.98]
tri	2x	1000	3	0.00 (MM)	0.00 (LO)	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.00 (ML)	0.07 (WE)	1.00 (MM)	1.00 (ML)	0.98 (ML)	1.00 (RI)	1.00 (RI)	1.00 (LO)	0.88 (ML)	0.96 (WE)	[0.95, 0.96]	0.98 (LO)	[0.98, 0.99]
tri	2x	1000	4	0.00 (MM)	0.00 (RI)	0.00 (ML)	0.00 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	1.00 (MM)	1.00 (RI)	1.00 (LO)	1.00 (ML)	1.00 (RI)	1.00 (LO)	0.96 (WE)	[0.95, 0.96]	0.99 (LO)	[0.99, 0.99]	
tri	2x	1000	5	0.00 (MM)	0.00 (LO)	0.00 (LO)	0.01 (ML)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	1.00 (RI)	1.00 (RI)	1.00 (LO)	1.00 (RI)	1.00 (LO)	0.96 (WE)	[0.96, 0.97]	0.99 (LO)	[0.99, 0.99]	
tri	2x	1000	10	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.01 (MM)	0.00 (LO)	0.01 (LO)	0.06 (WE)	1.00 (MM)	1.00 (ML)	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 0.99]					
tri	2x	1000	15	0.00 (ML)	0.00 (RI)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.00 (LO)	0.06 (WE)	1.00 (MM)	1.00 (ML)	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 0.99]					
tri	2x	1000	20	0.00 (ML)	0.00 (ML)	0.01 (LO)	0.01 (LO)	0.00 (LO)	0.00 (LO)	0.07 (WE)	1.00 (MM)	1.00 (ML)	0.97 (WE)	[0.97, 0.97]	0.99 (LO)	[0.99, 0.99]					
tri	4x	5	2	0.00 (ML)	0.04 (VR)	0.02 (WE)	0.01 (VR)	0.05 (VR)	0.01 (WE)	0.05 (WE)	0.19 (ML)	0.17 (ML)	0.12 (PD)	0.20 (LO)	0.17 (VR)	0.23 (PD)	0.43 (ML)	0.10 (VR)	[0.09, 0.11]	0.16 (FA)	[0.13, 0.19]
tri	4x	5	3	0.01 (LO)	0.15 (ML)	0.03 (MM)	0.01 (MM)	0.01 (LO)	0.02 (MM)	0.06 (WE)	0.27 (ML)	0.30 (LO)	0.20 (LO)	0.20 (RI)	0.30 (LO)	0.23 (ML)	0.46 (ML)	0.11 (ML)	[0.10, 0.13]	0.13 (ML)	[0.10, 0.16]
tri	4x	5	4	0.11 (ML)	0.07 (RI)	0.01 (WE)	0.02 (ML)	0.02 (MM)	0.01 (MM)	0.05 (WE)	0.19 (ML)	0.15 (ML)	0.20 (ML)	0.22 (ML)	0.20 (RI)	0.25 (ML)	0.47 (ML)	0.16 (ML)	[0.14, 0.18]	0.23 (LO)	[0.14, 0.30]
tri	4x	5	5	0.09 (ML)	0.14 (ML)	0.01 (RI)	0.00 (ML)	0.04 (MM)	0.02 (MM)	0.09 (MM)	0.24 (ML)	0.20 (RI)	0.30 (RI)	0.21 (ML)	0.30 (LO)	0.27 (ML)	0.49 (ML)	0.20 (ML)	[0.18, 0.22]	0.24 (ML)	[0.21, 0.27]
tri	4x	5	10	0.11 (ML)	0.17 (ML)	0.00 (MM)	0.01 (ML)	0.02 (ML)	0.00 (MM)	0.06 (WE)	0.28 (ML)	0.21 (ML)	0.42 (ML)	0.40 (WE)	0.30 (LO)	0.25 (ML)	0.53 (ML)	0.29 (ML)	[0.27, 0.31]	0.38 (RI)	[0.28, 0.47]
tri	4x	5	15	0.10 (ML)	0.17 (LO)	0.01 (WE)	0.03 (ML)	0.01 (MM)	0.03 (MM)	0.09 (MM)	0.21 (ML)	0.11 (ML)	0.30 (ML)	0.40 (LO)	0.40 (RI)	0.60 (LO)	0.56 (ML)	0.35 (ML)	[0.33, 0.37]	0.44 (ML)	[0.41, 0.47]
tri	4x	5	20	0.11 (LO)	0.13 (RI)	0.01 (MM)	0.04 (ML)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.30 (LO)	0.15 (ML)	0.42 (ML)	0.36 (ML)	0.30 (WE)	0.30 (RI)	0.59 (ML)	0.37 (ML)	[0.35, 0.39]	0.50 (ML)	[0.47, 0.53]

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	4x	10	2	0.01 (VR)	0.06 (VR)	0.04 (VR)	0.03 (RI)	0.00 (VR)	0.01 (VR)	0.01 (WE)	0.17 (ML)	0.14 (ML)	0.17 (PD)	0.15 (ML)	0.21 (FA)	0.23 (PD)	0.47 (ML)	0.18 (VR)	[0.17,0.19]	0.27 (VR)	[0.25,0.29]
tri	4x	10	3	0.09 (ML)	0.11 (ML)	0.05 (MM)	0.02 (ML)	0.01 (LO)	0.03 (LO)	0.05 (WE)	0.21 (ML)	0.21 (ML)	0.20 (ML), L(0.20 (RI))	0.20 (LO)	0.23 (ML)	0.50 (ML)	0.17 (ML)	[0.15,0.19]	0.22 (ML)	[0.19,0.25]	
tri	4x	10	4	0.08 (WE)	0.08 (LO)	0.00 (RI)	0.02 (ML)	0.04 (MM)	0.02 (LO)	0.07 (WE)	0.20 (ML)	0.30 (LO)	0.24 (ML)	0.24 (ML)	0.30 (LO)	0.21 (ML)	0.50 (ML)	0.23 (ML)	[0.21,0.25]	0.27 (ML)	[0.24,0.31]
tri	4x	10	5	0.13 (ML)	0.08 (RI)	0.00 (MM)	0.02 (ML)	0.01 (MM)	0.01 (RI)	0.09 (MM)	0.30 (WE)	0.30 (RI)	0.24 (ML)	0.40 (RI)	0.30 (RI)	0.30 (RI), L(0.53 (ML))	0.25 (ML)	[0.23,0.27]	0.30 (ML)	[0.27,0.34]	
tri	4x	10	10	0.11 (ML)	0.18 (ML)	0.00 (MM)	0.04 (ML)	0.01 (MM)	0.02 (RI)	0.08 (WE)	0.15 (ML)	0.30 (WE)	0.42 (ML)	0.35 (ML)	0.30 (MM), L(0.60 (RI))	0.57 (ML)	0.34 (ML)	[0.32,0.35]	0.45 (ML)	[0.42,0.48]	
tri	4x	10	15	0.11 (ML)	0.18 (ML)	0.00 (WE)	0.05 (ML)	0.00 (LO)	0.00 (LO)	0.08 (WE)	0.10 (ML), W(0.10 (LO))	0.47 (ML)	0.33 (ML)	0.39 (MM)	0.60 (LO)	0.62 (ML)	0.42 (WE)	[0.38,0.47]	0.55 (ML)	[0.52,0.58]	
tri	4x	10	20	0.11 (ML)	0.16 (LO)	0.02 (MM)	0.01 (WE)	0.00 (RI)	0.01 (MM)	0.07 (WE)	0.20 (RI), W(0.20 (RI), L(0.44 (ML)))	0.41 (ML)	0.50 (RI)	0.47 (ML)	0.65 (ML)	0.43 (WE)	[0.38,0.48]	0.57 (ML)	[0.54,0.59]		
tri	4x	15	2	0.01 (VR)	0.02 (VR)	0.03 (WE)	0.00 (RI)	0.02 (VR)	0.01 (PD)	0.04 (WE)	0.17 (VR)	0.16 (ML), W(0.21 (VR))	0.20 (VR)	0.35 (PD)	0.33 (PD)	0.48 (ML)	0.26 (VR)	[0.25,0.28]	0.35 (VR)	[0.33,0.38]	
tri	4x	15	3	0.11 (ML)	0.13 (ML)	0.01 (MM)	0.02 (ML)	0.02 (LO)	0.01 (MM)	0.04 (WE)	0.20 (RI)	0.17 (ML)	0.20 (WE)	0.23 (ML)	0.13 (MM), M(0.32 (ML))	0.50 (ML)	0.19 (ML)	[0.17,0.21]	0.26 (ML)	[0.23,0.29]	
tri	4x	15	4	0.13 (ML)	0.17 (LO)	0.00 (MM)	0.03 (ML)	0.02 (MM)	0.02 (RI)	0.07 (WE)	0.23 (ML)	0.30 (LO)	0.30 (LO)	0.30 (RI)	0.30 (RI), L(0.36 (ML))	0.52 (ML)	0.26 (ML)	[0.24,0.28]	0.33 (ML)	[0.30,0.36]	
tri	4x	15	5	0.09 (WE)	0.08 (RI)	0.02 (MM)	0.03 (ML)	0.00 (MM)	0.01 (MM)	0.09 (MM)	0.16 (ML)	0.12 (MM), M(0.60 (LO))	0.21 (ML)	0.50 (LO)	0.31 (ML)	0.56 (ML)	0.30 (ML)	[0.28,0.32]	0.38 (ML)	[0.35,0.41]	
tri	4x	15	10	0.12 (ML)	0.18 (ML)	0.00 (RI)	0.06 (ML)	0.01 (ML)	0.02 (RI)	0.05 (WE)	0.11 (ML)	0.09 (MM)	0.43 (ML)	0.50 (LO)	0.60 (LO)	0.80 (RI)	0.61 (ML)	0.36 (ML)	[0.34,0.38]	0.49 (ML)	[0.46,0.51]
tri	4x	15	15	0.10 (ML)	0.18 (ML)	0.00 (MM)	0.06 (ML)	0.00 (MM)	0.00 (MM)	0.09 (WE)	0.10 (ML), R(0.10 (WE))	0.60 (LO), W(0.40 (RI))	0.70 (LO)	0.50 (RI), L(0.67 (ML))	0.39 (ML)	[0.38,0.41]	0.56 (ML)	[0.53,0.58]			
tri	4x	15	20	0.14 (ML)	0.18 (ML)	0.01 (MM)	0.01 (LO)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.20 (LO)	0.04 (ML)	0.50 (ML), L(0.33 (ML))	0.40 (ML)	0.54 (ML)	0.71 (ML)	0.46 (WE)	[0.42,0.51]	0.59 (ML)	[0.57,0.61]	
tri	4x	20	2	0.00 (VR)	0.02 (LO)	0.02 (VR)	0.02 (ML)	0.03 (PD)	0.02 (VR)	0.00 (WE)	0.17 (ML)	0.20 (WE)	0.18 (VR)	0.20 (PD)	0.33 (PD)	0.40 (LO)	0.48 (ML)	0.31 (VR)	[0.30,0.32]	0.43 (VR)	[0.40,0.45]
tri	4x	20	3	0.13 (ML)	0.14 (ML)	0.00 (WE)	0.00 (RI)	0.01 (MM)	0.00 (RI)	0.04 (WE)	0.20 (WE)	0.14 (ML)	0.17 (ML)	0.30 (RI), L(0.20 (WE))	0.27 (ML)	0.52 (ML)	0.23 (ML)	[0.21,0.25]	0.30 (ML)	[0.27,0.33]	
tri	4x	20	4	0.14 (ML)	0.14 (LO)	0.01 (ML)	0.01 (LO)	0.00 (MM)	0.00 (MM)	0.05 (WE)	0.12 (MM)	0.11 (ML)	0.30 (RI)	0.30 (LO)	0.18 (MM)	0.31 (ML)	0.54 (ML)	0.28 (ML)	[0.26,0.30]	0.39 (ML)	[0.36,0.42]
tri	4x	20	5	0.07 (WE)	0.03 (WE)	0.00 (WE)	0.03 (LO)	0.02 (ML)	0.00 (MM)	0.09 (MM)	0.20 (RI), L(0.40 (RI))	0.31 (ML)	0.20 (RI)	0.30 (LO), W(0.40 (RI))	0.57 (ML)	0.31 (ML)	[0.29,0.33]	0.41 (ML)	[0.37,0.44]		
tri	4x	20	10	0.11 (ML)	0.17 (WE)	0.01 (MM)	0.06 (ML)	0.00 (LO)	0.01 (MM)	0.07 (WE)	0.30 (WE)	0.20 (WE)	0.56 (ML)	0.40 (RI), L(0.42 (MM))	0.70 (LO)	0.64 (ML)	0.36 (ML)	[0.34,0.38]	0.53 (ML)	[0.50,0.55]	
tri	4x	20	15	0.11 (ML)	0.20 (ML)	0.00 (ML)	0.07 (ML)	0.01 (MM)	0.00 (LO)	0.09 (WE)	0.20 (RI), L(0.10 (WE))	0.59 (ML)	0.30 (LO)	0.41 (MM)	0.60 (LO)	0.69 (ML)	0.39 (WE)	[0.35,0.44]	0.56 (ML)	[0.54,0.59]	
tri	4x	20	20	0.12 (ML)	0.15 (LO)	0.01 (RI)	0.00 (WE)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.10 (RI), L(0.03 (MM), M(0.56 (ML)))	0.40 (WE)	0.60 (MM)	0.62 (ML)	0.73 (ML)	0.48 (WE)	[0.43,0.53]	0.60 (ML)	[0.58,0.62]		
tri	4x	50	2	0.00 (VR)	0.01 (VR)	0.02 (VR)	0.01 (ML)	0.02 (MM)	0.01 (PD)	0.00 (WE)	0.26 (VR)	0.29 (VR)	0.22 (VR)	0.21 (VR)	0.44 (PD)	0.48 (PD)	0.49 (ML)	0.48 (VR)	[0.47,0.49]	0.66 (VR)	[0.64,0.68]
tri	4x	50	3	0.05 (LO)	0.17 (ML)	0.01 (MM)	0.01 (RI)	0.01 (MM)	0.02 (MM)	0.05 (WE)	0.10 (ML), R(0.10 (MM))	0.30 (RI), L(0.13 (ML))	0.30 (RI), L(0.20 (LO))	0.30 (ML), R(0.56 (ML))	0.25 (ML)	[0.23,0.27]	0.33 (ML)	[0.30,0.37]			
tri	4x	50	4	0.13 (ML)	0.06 (LO)	0.01 (MM)	0.01 (LO)	0.03 (MM)	0.01 (MM)	0.08 (WE)	0.10 (WE)	0.30 (RI), W(0.50 (RI))	0.40 (LO)	0.30 (LO), W(0.31 (ML))	0.59 (ML)	0.30 (ML)	[0.28,0.32]	0.42 (ML)	[0.39,0.45]		
tri	4x	50	5	0.07 (WE)	0.14 (WE)	0.00 (MM)	0.02 (LO)	0.00 (MM)	0.00 (MM)	0.09 (MM)	0.30 (LO)	0.40 (LO)	0.38 (ML)	0.40 (RI)	0.31 (ML)	0.44 (ML)	0.65 (ML)	0.33 (ML)	[0.31,0.35]	0.42 (ML)	[0.39,0.46]
tri	4x	50	10	0.13 (ML)	0.18 (RI)	0.00 (ML)	0.06 (ML)	0.00 (ML)	0.00 (ML)	0.06 (WE)	0.00 (MM), M(0.10 (RI))	0.60 (RI)	0.40 (LO)	0.70 (RI)	0.80 (LO)	0.74 (ML)	0.37 (WE)	[0.31,0.42]	0.55 (ML)	[0.52,0.57]	
tri	4x	50	15	0.11 (ML)	0.18 (LO)	0.00 (MM)	0.08 (ML)	0.01 (RI)	0.00 (MM)	0.09 (WE)	0.00 (MM), M(0.10 (RI), L(0.64 (ML)))	0.20 (LO)	0.62 (ML)	0.65 (ML)	0.79 (ML)	0.43 (WE)	[0.39,0.48]	0.62 (LO)	[0.54,0.68]		
tri	4x	50	20	0.14 (ML)	0.20 (MM)	0.00 (WE)	0.03 (LO)	0.00 (LO)	0.00 (MM)	0.07 (WE)	0.10 (RI)	0.04 (MM), M(0.66 (ML))	0.20 (WE)	0.70 (RI), L(0.74 (ML))	0.82 (ML)	0.51 (WE)	[0.46,0.55]	0.62 (ML)	[0.60,0.64]		
tri	4x	100	2	0.00 (VR)	0.01 (VR)	0.00 (LO)	0.00 (VR)	0.00 (VR)	0.00 (MM)	0.01 (WE)	0.37 (VR)	0.32 (VR)	0.36 (VR)	0.33 (VR)	0.47 (PD)	0.70 (PD)	0.64 (FA)	0.57 (VR)	[0.56,0.58]	0.78 (VR)	[0.77,0.80]
tri	4x	100	3	0.08 (LO)	0.18 (ML)	0.01 (WE)	0.04 (ML)	0.01 (LO)	0.02 (MM)	0.05 (WE)	0.20 (RI), L(0.20 (LO))	0.20 (LO), W(0.30 (RI))	0.30 (RI)	0.26 (ML)	0.57 (ML)	0.25 (ML)	[0.23,0.27]	0.36 (ML)	[0.32,0.39]		
tri	4x	100	4	0.14 (RI)	0.10 (LO)	0.00 (ML)	0.04 (LO)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.20 (RI)	0.20 (RI), L(0.30 (RI))	0.20 (RI)	0.20 (LO), W(0.31 (ML))	0.61 (ML)	0.29 (ML)	[0.28,0.31]	0.43 (ML)	[0.40,0.46]		
tri	4x	100	5	0.10 (WE)	0.12 (WE)	0.00 (RI)	0.03 (LO)	0.01 (MM)	0.01 (MM)	0.09 (MM)	0.20 (RI)	0.40 (RI), L(0.40 (WE))	0.10 (LO)	0.30 (RI), L(0.40 (RI), L(0.68 (ML)))	0.65 (ML)	0.33 (ML)	[0.31,0.35]	0.46 (ML)	[0.43,0.49]		
tri	4x	100	10	0.13 (ML)	0.19 (ML)	0.00 (ML)	0.07 (ML)	0.00 (LO)	0.00 (ML)	0.06 (WE)	0.10 (RI), W(0.07 (MM))	0.63 (ML)	0.20 (LO)	0.60 (RI)	0.90 (RI)	0.77 (ML)	0.37 (WE)	[0.32,0.42]	0.55 (ML)	[0.52,0.57]	
tri	4x	100	15	0.11 (ML)	0.19 (LO)	0.00 (RI)	0.07 (LO)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.01 (ML)	0.04 (MM)	0.65 (ML)	0.20 (RI), L(0.70 (LO))	0.80 (LO)	0.81 (ML)	0.44 (WE)	[0.39,0.48]	0.62 (LO)	[0.54,0.68]	
tri	4x	100	20	0.13 (ML)	0.19 (ML)	0.00 (WE)	0.03 (LO)	0.02 (ML)	0.00 (ML)	0.08 (WE)	0.01 (MM), M(0.03 (MM))	0.72 (ML)	0.20 (LO)	0.77 (ML)	0.82 (ML)	0.84 (ML)	0.54 (WE)	[0.50,0.59]	0.64 (RI)	[0.57,0.69]	

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	4x	500	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (WE)	0.69 (VR)	0.62 (VR)	0.82 (VR)	0.72 (VR)	0.73 (VR)	0.88 (PD)	0.88 (FA)	0.71 (VR)	[0.70, 0.71]	0.95 (VR)	[0.94, 0.95]	
tri	4x	500	3	0.08 (LO)	0.19 (ML)	0.01 (WE)	0.02 (RI)	0.01 (ML)	0.02 (MM)	0.05 (WE)	0.30 (LO)	0.23 (ML)	0.10 (LO)	0.30 (RI)	0.01 (ML)	0.23 (ML)	0.55 (ML)	[0.23, 0.27]	0.36 (ML)	[0.33, 0.40]	
tri	4x	500	4	0.14 (WE)	0.11 (LO)	0.00 (ML)	0.02 (LO)	0.01 (WE)	0.01 (RI)	0.07 (WE)	0.10 (RI), LI,0.40 (RI)	0.40 (RI)	0.02 (ML)	0.30 (WE)	0.40 (LO)	0.61 (ML)	0.29 (ML)	[0.27, 0.31]	0.43 (ML)	[0.40, 0.46]	
tri	4x	500	5	0.10 (WE)	0.11 (WE)	0.00 (WE)	0.05 (LO)	0.00 (ML)	0.00 (MM)	0.09 (MM)	0.10 (RI)	0.30 (RI), LI,0.30 (RI)	0.10 (WE)	0.40 (RI)	0.40 (LO)	0.69 (ML)	0.31 (ML)	[0.30, 0.33]	0.45 (ML)	[0.42, 0.48]	
tri	4x	500	10	0.13 (ML)	0.19 (ML)	0.01 (ML)	0.07 (ML)	0.01 (RI)	0.01 (ML)	0.06 (WE)	0.00 (MM), MI,0.06 (MM)	0.66 (ML)	0.06 (ML)	0.61 (ML)	0.90 (LO)	0.78 (ML)	0.39 (WE)	[0.34, 0.44]	0.54 (ML)	[0.52, 0.57]	
tri	4x	500	15	0.11 (ML)	0.18 (LO)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.00 (MM), MI,0.10 (RI), LI,0.86 (MM)	0.20 (LO)	0.10 (MM)	0.90 (LO)	0.82 (ML)	0.47 (WE)	[0.42, 0.51]	0.64 (LO)	[0.57, 0.70]		
tri	4x	500	20	0.13 (ML)	0.20 (MM)	0.00 (RI)	0.03 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	0.01 (ML)	0.02 (MM), MI,0.86 (MM)	0.10 (RI), WI,0.92 (ML)	0.86 (ML)	0.85 (ML)	0.54 (WE)	[0.50, 0.58]	0.64 (LO)	[0.58, 0.70]		
tri	4x	1000	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (MM)	0.01 (WE)	0.82 (VR)	0.86 (VR)	0.91 (VR)	0.92 (VR)	0.84 (VR)	0.98 (PD)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]
tri	4x	1000	3	0.08 (LO)	0.17 (ML)	0.02 (WE)	0.01 (RI)	0.00 (WE)	0.02 (MM)	0.05 (WE)	0.30 (LO)	0.21 (ML)	0.10 (WE)	0.20 (WE)	0.00 (MM), MI,0.23 (ML)	0.55 (ML)	0.26 (ML)	[0.24, 0.28]	0.37 (ML)	[0.33, 0.40]	
tri	4x	1000	4	0.14 (WE)	0.10 (LO)	0.00 (ML)	0.03 (LO)	0.02 (MM)	0.02 (MM)	0.07 (WE)	0.00 (MM), MI,0.40 (RI)	0.40 (WE)	0.01 (ML)	0.30 (WE)	0.40 (LO)	0.61 (ML)	0.29 (ML)	[0.28, 0.31]	0.44 (ML)	[0.40, 0.47]	
tri	4x	1000	5	0.11 (WE)	0.11 (WE)	0.00 (ML)	0.05 (LO)	0.00 (MM)	0.00 (MM)	0.09 (MM)	0.00 (MM), MI,0.20 (RI), LI,0.40 (WE)	0.01 (ML)	0.40 (RI)	0.31 (ML)	0.69 (ML)	0.31 (ML)	[0.29, 0.33]	0.46 (ML)	[0.43, 0.49]		
tri	4x	1000	10	0.13 (ML)	0.19 (ML)	0.01 (ML)	0.07 (ML)	0.01 (RI)	0.01 (ML)	0.06 (WE)	0.00 (MM), MI,0.06 (ML)	0.70 (RI)	0.20 (LO)	0.71 (ML)	0.80 (ML)	0.78 (ML)	0.38 (WE)	[0.33, 0.43]	0.55 (ML)	[0.52, 0.57]	
tri	4x	1000	15	0.11 (ML)	0.18 (LO)	0.00 (ML)	0.08 (ML)	0.00 (MM)	0.00 (MM)	0.08 (WE)	0.00 (MM), MI,0.10 (RI), LI,0.89 (MM)	0.20 (RI), LI,0.80 (MM), WI,0.90 (RI), LI,0.82 (ML)	0.47 (WE)	[0.42, 0.51]	0.64 (LO)	[0.57, 0.70]					
tri	4x	1000	20	0.13 (ML)	0.20 (MM)	0.00 (RI)	0.02 (LO)	0.01 (LO)	0.00 (MM)	0.07 (WE)	0.01 (ML)	0.02 (MM)	0.89 (MM)	0.10 (RI), LI,0.94 (MM)	0.89 (MM), MI,0.85 (ML)	0.55 (WE)	[0.51, 0.59]	0.65 (LO)	[0.58, 0.70]		
tri	6x	5	2	0.04 (ML)	0.03 (VR)	0.02 (LO)	0.00 (VR)	0.02 (PD)	0.01 (VR)	0.04 (MM)	0.10 (ML), RI,0.13 (ML)	0.40 (LO)	0.28 (PD)	0.19 (PD)	0.25 (FA)	0.58 (MM)	0.11 (VR)	[0.10, 0.12]	0.15 (VR)	[0.13, 0.17]	
tri	6x	5	3	0.01 (LO)	0.12 (WE)	0.01 (MM)	0.03 (LO)	0.03 (MM)	0.00 (RI)	0.01 (WE)	0.22 (ML)	0.30 (WE)	0.10 (WE)	0.20 (RI)	0.11 (MM)	0.20 (ML)	0.44 (ML)	0.08 (ML)	[0.06, 0.09]	0.11 (ML)	[0.08, 0.13]
tri	6x	5	4	0.06 (ML)	0.00 (RI)	0.01 (MM)	0.00 (LO)	0.03 (MM)	0.03 (LO)	0.02 (WE)	0.20 (LO)	0.16 (MM), MI,0.13 (MM)	0.30 (WE)	0.10 (ML)	0.20 (RI)	0.46 (ML)	0.13 (ML)	[0.12, 0.15]	0.14 (ML)	[0.11, 0.17]	
tri	6x	5	5	0.14 (ML)	0.12 (LO)	0.02 (MM)	0.00 (ML)	0.01 (MM)	0.00 (WE)	0.09 (MM)	0.20 (WE)	0.20 (WE)	0.20 (RI)	0.40 (RI)	0.20 (RI), WI,0.20 (RI), LI,0.48 (ML)	0.15 (ML)	[0.13, 0.17]	0.22 (RI)	[0.14, 0.30]		
tri	6x	5	10	0.04 (LO)	0.19 (LO)	0.00 (MM)	0.05 (ML)	0.00 (LO)	0.03 (RI)	0.08 (RI)	0.20 (WE)	0.20 (LO)	0.24 (MM)	0.18 (MM)	0.23 (ML)	0.20 (LO)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.33 (ML)	[0.30, 0.36]
tri	6x	5	15	0.16 (RI)	0.20 (ML)	0.01 (MM)	0.06 (ML)	0.02 (ML)	0.02 (MM)	0.08 (MM)	0.20 (LO)	0.14 (ML)	0.40 (WE)	0.50 (RI)	0.40 (LO)	0.40 (RI)	0.56 (ML)	0.26 (ML)	[0.24, 0.28]	0.37 (ML)	[0.34, 0.41]
tri	6x	5	20	0.17 (ML)	0.20 (ML)	0.00 (ML)	0.04 (ML)	0.01 (MM)	0.00 (MM)	0.08 (WE)	0.15 (ML)	0.15 (ML)	0.30 (LO), WI,0.30 (WE)	0.40 (RI), WI,0.40 (RI), LI,0.56 (ML)	0.29 (ML)	[0.27, 0.31]	0.40 (ML)	[0.36, 0.43]			
tri	6x	10	2	0.04 (VR)	0.04 (VR)	0.01 (VR)	0.01 (VR)	0.00 (WE)	0.03 (LO)	0.02 (RI)	0.17 (ML)	0.14 (VR)	0.27 (PD)	0.23 (PD)	0.33 (PD)	0.30 (LO)	0.47 (MM)	0.18 (VR)	[0.16, 0.19]	0.27 (VR)	[0.24, 0.29]
tri	6x	10	3	0.11 (LO)	0.13 (RI)	0.02 (MM)	0.01 (ML)	0.01 (MM)	0.02 (RI)	0.01 (WE)	0.18 (ML)	0.30 (WE)	0.20 (LO), WI,0.30 (WE)	0.20 (LO)	0.30 (LO)	0.47 (ML)	0.14 (ML)	[0.12, 0.16]	0.19 (ML)	[0.16, 0.22]	
tri	6x	10	4	0.06 (RI)	0.03 (WE)	0.01 (MM)	0.01 (ML)	0.01 (MM)	0.02 (MM)	0.02 (WE)	0.20 (WE)	0.20 (LO)	0.20 (RI), LI,0.40 (LO)	0.30 (RI), WI,0.30 (LO)	0.50 (ML)	0.16 (ML)	[0.14, 0.18]	0.19 (ML)	[0.16, 0.23]		
tri	6x	10	5	0.15 (ML)	0.18 (ML)	0.00 (MM)	0.02 (ML)	0.03 (ML)	0.01 (LO)	0.07 (WE)	0.16 (MM), MI,0.22 (ML)	0.20 (WE)	0.30 (RI)	0.20 (RI), LI,0.20 (RI)	0.50 (ML)	0.19 (ML)	[0.17, 0.21]	0.24 (ML)	[0.21, 0.28]		
tri	6x	10	10	0.17 (RI)	0.18 (LO)	0.01 (ML)	0.04 (ML)	0.00 (MM)	0.01 (RI)	0.10 (MM)	0.15 (ML)	0.20 (RI)	0.30 (WE)	0.14 (MM)	0.40 (WE)	0.50 (RI)	0.56 (ML)	0.27 (ML)	[0.25, 0.29]	0.38 (ML)	[0.34, 0.41]
tri	6x	10	15	0.18 (ML)	0.20 (LO)	0.00 (MM)	0.08 (ML)	0.00 (ML)	0.02 (ML)	0.09 (MM)	0.17 (ML)	0.10 (LO), WI,0.40 (WE)	0.30 (WE)	0.29 (ML)	0.38 (ML)	0.60 (ML)	0.31 (ML)	[0.29, 0.33]	0.39 (ML)	[0.36, 0.43]	
tri	6x	10	20	0.16 (RI)	0.22 (ML)	0.00 (MM)	0.07 (ML)	0.01 (MM)	0.01 (MM)	0.08 (WE)	0.10 (RI), LI,0.10 (WE)	0.32 (MM)	0.20 (LO)	0.37 (ML)	0.50 (RI)	0.62 (ML)	0.31 (ML)	[0.29, 0.32]	0.43 (ML)	[0.40, 0.46]	
tri	6x	15	2	0.02 (VR)	0.00 (VR)	0.03 (VR)	0.05 (VR)	0.02 (VR)	0.01 (LO)	0.04 (MM)	0.20 (WE)	0.18 (ML)	0.33 (PD)	0.34 (PD)	0.35 (PD)	0.28 (FA)	0.45 (ML)	0.24 (VR)	[0.22, 0.25]	0.34 (VR)	[0.31, 0.36]
tri	6x	15	3	0.14 (ML)	0.19 (ML)	0.01 (LO)	0.01 (WE)	0.00 (RI)	0.01 (MM)	0.01 (WE)	0.22 (ML)	0.23 (ML)	0.20 (RI)	0.20 (LO), WI,0.20 (LO), WI,0.24 (ML)	0.48 (ML)	0.16 (ML)	[0.14, 0.18]	0.20 (ML)	[0.17, 0.23]		
tri	6x	15	4	0.09 (RI)	0.00 (WE)	0.00 (RI)	0.03 (ML)	0.00 (MM)	0.04 (LO)	0.01 (WE)	0.20 (RI), WI,0.20 (LO)	0.30 (LO)	0.20 (LO)	0.30 (RI)	0.40 (LO)	0.51 (ML)	0.22 (ML)	[0.20, 0.24]	0.23 (ML)	[0.20, 0.27]	
tri	6x	15	5	0.18 (ML)	0.18 (ML)	0.00 (MM)	0.05 (ML)	0.00 (MM)	0.01 (WE)	0.08 (LO)	0.30 (WE)	0.20 (RI), LI,0.30 (LO)	0.13 (MM)	0.25 (ML)	0.20 (ML)	0.53 (ML)	0.22 (ML)	[0.20, 0.24]	0.32 (RI)	[0.22, 0.41]	
tri	6x	15	10	0.17 (LO)	0.19 (LO)	0.00 (LO)	0.05 (RI)	0.00 (MM)	0.01 (LO)	0.09 (LO)	0.15 (ML)	0.20 (RI)	0.50 (RI), LI,0.18 (ML)	0.50 (LO)	0.33 (ML)	0.58 (ML)	0.29 (ML)	[0.27, 0.31]	0.38 (ML)	[0.34, 0.41]	
tri	6x	15	15	0.18 (ML)	0.21 (ML)	0.02 (MM)	0.08 (ML)	0.00 (MM)	0.01 (ML)	0.09 (WE)	0.12 (ML)	0.10 (LO), WI,0.40 (RI)	0.30 (LO)	0.27 (ML)	0.43 (ML)	0.63 (ML)	0.30 (WE)	[0.25, 0.35]	0.40 (ML)	[0.37, 0.43]	
tri	6x	15	20	0.17 (ML)	0.22 (ML)	0.00 (ML)	0.06 (ML)	0.00 (ML)	0.01 (MM)	0.08 (WE)	0.14 (MM)	0.10 (MM), MI,0.40 (RI), LI,0.22 (ML)	0.40 (LO)	0.40 (LO)	0.65 (ML)	0.32 (ML)	[0.30, 0.33]	0.47 (ML)	[0.44, 0.50]		

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	6x	20	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.05 (MM)	0.23 (VR)	0.24 (VR)	0.32 (PD)	0.25 (PD)	0.48 (PD)	0.32 (FA)	0.46 (ML)	0.29 (VR)	[0.28, 0.30]	0.41 (VR)	[0.38, 0.43]
tri	6x	20	3	0.12 (ML)	0.19 (ML)	0.00 (RI)	0.01 (ML)	0.02 (MM)	0.02 (MM)	0.01 (WE)	0.24 (MM)	0.19 (ML)	0.50 (WE)	0.20 (LO)	0.20 (LO)	0.29 (ML)	0.47 (ML)	0.17 (ML)	[0.15, 0.19]	0.24 (ML)	[0.21, 0.27]
tri	6x	20	4	0.08 (RI)	0.00 (WE)	0.00 (MM)	0.01 (LO)	0.03 (ML)	0.04 (MM)	0.01 (WE)	0.24 (ML)	0.16 (ML)	0.20 (RI), L0.40 (LO)	0.20 (LO)	0.20 (RI)	0.27 (ML)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.22 (ML)	[0.19, 0.26]
tri	6x	20	5	0.16 (LO)	0.17 (LO)	0.00 (LO)	0.03 (ML)	0.02 (MM)	0.00 (WE)	0.07 (WE)	0.25 (ML)	0.12 (ML)	0.20 (WE)	0.20 (RI), L0.20 (RI)	0.20 (LO)	0.54 (ML)	0.23 (ML)	[0.21, 0.25]	0.30 (ML)	[0.26, 0.33]	
tri	6x	20	10	0.18 (ML)	0.22 (LO)	0.01 (MM)	0.03 (RI)	0.00 (MM)	0.01 (RI)	0.10 (MM)	0.22 (ML)	0.11 (MM)	0.40 (RI)	0.20 (RI), W0.30 (RI)	0.25 (ML)	0.59 (ML)	0.29 (ML)	[0.27, 0.31]	0.43 (ML)	[0.40, 0.46]	
tri	6x	20	15	0.19 (ML)	0.20 (WE)	0.00 (MM)	0.10 (ML)	0.00 (ML)	0.01 (ML)	0.09 (MM)	0.13 (ML)	0.10 (RI)	0.29 (ML)	0.30 (LO)	0.40 (LO)	0.41 (ML)	0.65 (ML)	0.35 (WE)	[0.30, 0.40]	0.42 (ML)	[0.39, 0.45]
tri	6x	20	20	0.16 (WE)	0.22 (LO)	0.00 (ML)	0.06 (WE)	0.01 (ML)	0.01 (MM)	0.09 (WE)	0.10 (MM), M0.10 (LO)	0.60 (RI)	0.50 (RI)	0.50 (LO)	0.50 (LO)	0.67 (ML)	0.32 (WE)	[0.27, 0.36]	0.45 (ML)	[0.42, 0.48]	
tri	6x	50	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (ML)	0.01 (VR)	0.00 (VR)	0.05 (MM)	0.25 (VR)	0.27 (VR)	0.33 (VR)	0.27 (PD)	0.64 (PD)	0.36 (FA)	0.59 (FA)	0.48 (VR)	[0.46, 0.49]	0.64 (VR)	[0.62, 0.66]
tri	6x	50	3	0.14 (ML)	0.10 (RI)	0.01 (MM)	0.02 (ML)	0.02 (MM)	0.02 (MM)	0.01 (WE)	0.30 (RI)	0.20 (LO), W0.20 (LO)	0.20 (RI)	0.16 (ML)	0.40 (LO)	0.50 (ML)	0.22 (ML)	[0.20, 0.24]	0.27 (ML)	[0.24, 0.30]	
tri	6x	50	4	0.11 (RI)	0.02 (RI)	0.00 (RI)	0.05 (LO)	0.01 (MM)	0.04 (MM)	0.01 (WE)	0.25 (ML)	0.11 (MM)	0.40 (LO)	0.30 (LO)	0.30 (RI)	0.40 (RI)	0.53 (ML)	0.26 (ML)	[0.24, 0.28]	0.26 (ML)	[0.22, 0.30]
tri	6x	50	5	0.16 (ML)	0.20 (ML)	0.01 (MM)	0.01 (RI)	0.01 (MM)	0.01 (WE)	0.06 (WE)	0.21 (MM)	0.13 (ML)	0.20 (LO)	0.30 (RI)	0.20 (LO)	0.27 (ML)	0.56 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.30, 0.37]
tri	6x	50	10	0.18 (ML)	0.20 (LO)	0.00 (ML)	0.06 (ML)	0.00 (MM)	0.01 (LO)	0.10 (MM)	0.24 (MM), M0.20 (RI)	0.40 (RI)	0.16 (ML)	0.26 (ML)	0.34 (ML)	0.61 (ML)	0.29 (ML)	[0.28, 0.31]	0.42 (ML)	[0.38, 0.45]	
tri	6x	50	15	0.18 (ML)	0.22 (ML)	0.00 (MM)	0.09 (LO)	0.00 (ML)	0.01 (ML)	0.09 (MM)	0.16 (MM), M0.10 (RI), L0.30 (LO)	0.40 (LO)	0.40 (RI), L0.49 (ML)	0.68 (ML)	0.34 (WE)	[0.29, 0.39]	0.42 (ML)	[0.40, 0.45]			
tri	6x	50	20	0.18 (ML)	0.23 (ML)	0.00 (ML)	0.07 (WE)	0.01 (ML)	0.00 (MM)	0.08 (WE)	0.11 (MM)	0.04 (MM), M0.50 (RI), W0.30 (RI)	0.48 (ML)	0.59 (ML)	0.70 (ML)	0.35 (WE)	[0.30, 0.40]	0.46 (ML)	[0.43, 0.48]		
tri	6x	100	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.05 (MM)	0.41 (VR)	0.36 (VR)	0.41 (VR)	0.41 (VR)	0.66 (PD)	0.37 (FA)	0.74 (FA)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.76, 0.79]
tri	6x	100	3	0.15 (ML)	0.19 (ML)	0.02 (MM)	0.03 (ML)	0.03 (MM)	0.00 (MM)	0.01 (WE)	0.15 (MM), M0.10 (ML), W0.30 (LO)	0.40 (LO)	0.20 (RI), L0.30 (ML)	0.51 (ML)	0.22 (ML)	[0.20, 0.24]	0.30 (ML)	[0.27, 0.34]			
tri	6x	100	4	0.11 (RI)	0.00 (WE)	0.00 (RI)	0.06 (LO)	0.00 (WE)	0.04 (ML)	0.01 (WE)	0.22 (ML)	0.20 (LO)	0.40 (LO)	0.23 (MM)	0.40 (RI)	0.32 (ML)	0.54 (ML)	0.27 (ML)	[0.25, 0.29]	0.27 (ML)	[0.23, 0.30]
tri	6x	100	5	0.16 (MM)	0.20 (LO)	0.00 (MM)	0.02 (LO)	0.00 (MM)	0.01 (WE)	0.08 (WE)	0.21 (ML)	0.13 (ML)	0.21 (MM)	0.30 (WE)	0.20 (ML)	0.21 (ML)	0.57 (ML)	0.25 (ML)	[0.23, 0.26]	0.36 (ML)	[0.33, 0.39]
tri	6x	100	10	0.18 (ML)	0.18 (LO)	0.00 (ML)	0.06 (ML)	0.00 (ML)	0.01 (MM)	0.10 (MM)	0.25 (ML)	0.10 (RI), W0.20 (RI), L0.21 (MM)	0.19 (ML)	0.26 (ML)	0.62 (ML)	0.29 (ML)	[0.28, 0.31]	0.42 (LO)	[0.32, 0.50]		
tri	6x	100	15	0.19 (ML)	0.22 (ML)	0.00 (MM)	0.10 (ML)	0.01 (ML)	0.00 (ML)	0.09 (MM)	0.17 (MM)	0.10 (RI), W0.24 (ML)	0.30 (RI), W0.30 (RI), L0.50 (RI)	0.67 (ML)	0.36 (WE)	[0.31, 0.41]	0.42 (ML)	[0.39, 0.45]			
tri	6x	100	20	0.18 (RI)	0.23 (ML)	0.00 (ML)	0.08 (ML)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.14 (MM)	0.04 (MM)	0.40 (RI)	0.18 (MM), M0.41 (ML)	0.50 (RI)	0.70 (ML)	0.34 (WE)	[0.29, 0.39]	0.45 (ML)	[0.43, 0.48]	
tri	6x	500	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.06 (MM)	0.74 (VR)	0.72 (VR)	0.81 (VR)	0.69 (VR)	0.73 (VR)	0.70 (VR)	0.90 (FA)	0.70 (VR)	[0.70, 0.71]	0.94 (VR)	[0.94, 0.95]
tri	6x	500	3	0.15 (MM)	0.19 (ML)	0.02 (WE)	0.04 (ML)	0.01 (MM)	0.00 (MM)	0.00 (WE)	0.20 (RI), W0.20 (RI), W0.30 (LO)	0.35 (MM)	0.30 (LO)	0.50 (LO)	0.53 (ML)	0.24 (ML)	[0.22, 0.26]	0.31 (ML)	[0.28, 0.35]		
tri	6x	500	4	0.11 (RI)	0.03 (WE)	0.00 (RI)	0.07 (ML)	0.02 (MM)	0.03 (ML)	0.01 (WE)	0.22 (ML)	0.20 (RI)	0.40 (LO)	0.29 (MM)	0.20 (WE)	0.30 (ML)	0.54 (ML)	0.28 (ML)	[0.26, 0.30]	0.29 (ML)	[0.25, 0.32]
tri	6x	500	5	0.16 (ML)	0.20 (LO)	0.01 (MM)	0.01 (RI)	0.00 (WE)	0.01 (RI)	0.08 (WE)	0.18 (ML)	0.10 (RI), L0.20 (RI)	0.24 (MM)	0.26 (ML)	0.58 (ML)	0.25 (ML)	[0.23, 0.27]	0.36 (ML)	[0.33, 0.39]		
tri	6x	500	10	0.18 (RI)	0.20 (LO)	0.00 (ML)	0.06 (RI)	0.00 (MM)	0.01 (LO)	0.10 (MM)	0.24 (MM), M0.10 (RI), L0.20 (LO), W0.22 (ML)	0.20 (LO), W0.20 (LO)	0.62 (ML)	0.29 (ML)	[0.28, 0.31]	0.42 (ML)	[0.39, 0.45]				
tri	6x	500	15	0.19 (ML)	0.22 (ML)	0.01 (MM)	0.10 (LO)	0.01 (ML)	0.01 (ML)	0.09 (MM)	0.17 (MM), M0.10 (WE)	0.25 (ML)	0.30 (WE)	0.30 (LO)	0.30 (ML)	0.66 (ML)	0.37 (WE)	[0.32, 0.42]	0.42 (ML)	[0.39, 0.45]	
tri	6x	500	20	0.18 (WE)	0.23 (ML)	0.00 (ML)	0.07 (WE)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.15 (MM)	0.02 (MM)	0.46 (ML)	0.13 (ML)	0.43 (ML)	0.50 (ML)	0.69 (ML)	0.36 (WE)	[0.31, 0.41]	0.45 (ML)	[0.42, 0.48]
tri	6x	1000	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.06 (MM)	0.88 (VR)	0.85 (VR)	0.87 (VR)	0.85 (VR)	0.86 (VR)	0.96 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.73]	0.97 (VR)	[0.97, 0.97]
tri	6x	1000	3	0.15 (MM)	0.19 (ML)	0.03 (MM)	0.03 (RI)	0.02 (MM)	0.00 (MM)	0.01 (WE)	0.10 (MM), R0.20 (WE)	0.22 (MM)	0.32 (MM)	0.23 (ML)	0.34 (ML)	0.54 (ML)	0.24 (ML)	[0.22, 0.26]	0.31 (ML)	[0.28, 0.35]	
tri	6x	1000	4	0.09 (RI)	0.02 (WE)	0.00 (MM)	0.07 (LO)	0.02 (ML)	0.03 (ML)	0.01 (WE)	0.23 (ML)	0.10 (ML), R0.40 (LO)	0.34 (MM)	0.20 (LO), W0.29 (ML)	0.54 (ML)	0.28 (ML)	[0.26, 0.30]	0.29 (ML)	[0.26, 0.33]		
tri	6x	1000	5	0.16 (ML)	0.20 (ML)	0.00 (MM)	0.02 (RI)	0.01 (MM)	0.00 (RI)	0.08 (WE)	0.25 (ML)	0.10 (RI), L0.15 (ML)	0.30 (WE)	0.26 (ML)	0.27 (ML)	0.58 (ML)	0.25 (ML)	[0.23, 0.27]	0.36 (ML)	[0.33, 0.39]	
tri	6x	1000	10	0.18 (RI)	0.19 (LO)	0.01 (ML)	0.07 (ML)	0.00 (ML)	0.00 (LO)	0.10 (MM)	0.24 (MM)	0.10 (RI), L0.20 (WE)	0.23 (MM)	0.20 (WE)	0.17 (ML)	0.62 (ML)	0.30 (WE)	[0.25, 0.35]	0.42 (ML)	[0.39, 0.45]	
tri	6x	1000	15	0.19 (ML)	0.22 (ML)	0.01 (MM)	0.09 (LO)	0.00 (ML)	0.01 (ML)	0.09 (MM)	0.17 (MM), M0.10 (WE)	0.30 (RI)	0.30 (WE)	0.40 (LO)	0.40 (LO)	0.66 (ML)	0.38 (WE)	[0.33, 0.42]	0.42 (ML)	[0.39, 0.45]	
tri	6x	1000	20	0.18 (ML)	0.23 (ML)	0.00 (ML)	0.07 (ML)	0.01 (ML)	0.00 (ML)	0.08 (WE)	0.15 (MM)	0.02 (MM)	0.40 (RI), W0.20 (RI)	0.48 (ML)	0.49 (ML)	0.69 (ML)	0.35 (WE)	[0.30, 0.40]	0.45 (ML)	[0.42, 0.48]	

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	8x	5	2	0.01 (ML)	0.01 (VR)	0.03 (PD)	0.04 (PD)	0.08 (VR)	0.04 (VR)	0.01 (MM)	0.10 (RI)	0.09 (VR)	0.54 (PD)	0.51 (PD)	0.21 (PD, F) 0.22 (MM, F) 0.64 (MM)	0.11 (VR)	[0.10, 0.12]	0.16 (VR)	[0.14, 0.18]		
tri	8x	5	3	0.29 (ML)	0.12 (ML)	0.04 (LO)	0.00 (LO)	0.03 (LO)	0.03 (LO)	0.06 (WE)	0.20 (ML)	0.30 (ML, W) 0.10 (ML, R) 0.30 (RI)	0.20 (RI, L) 0.13 (MM)	0.40 (ML)	0.04 (LO)	[0.01, 0.07]	0.03 (MM)	[0.01, 0.05]			
tri	8x	5	4	0.06 (WE)	0.08 (WE)	0.02 (ML)	0.04 (ML)	0.01 (RI)	0.04 (MM)	0.11 (LO)	0.12 (MM)	0.40 (RI)	0.20 (ML, R) 0.20 (ML)	0.20 (ML, L) 0.20 (LO)	0.40 (ML)	0.03 (MM)	[0.02, 0.04]	0.06 (LO)	[−0.02, 0.14]		
tri	8x	5	5	0.28 (ML)	0.13 (ML)	0.01 (ML)	0.12 (ML)	0.01 (MM)	0.03 (MM)	0.10 (LO)	0.14 (MM)	0.20 (ML)	0.20 (ML)	0.30 (RI)	0.20 (ML)	0.30 (ML, W) 0.44 (ML)	0.03 (ML)	[−0.03, 0.09]	0.09 (RI)	[0.02, 0.17]	
tri	8x	5	10	0.33 (ML)	0.27 (ML)	0.11 (ML)	0.15 (MM)	0.02 (ML)	0.01 (MM)	0.06 (WE)	0.10 (ML, R) 0.10 (ML, W) 0.40 (ML)	0.30 (RI)	0.20 (MM, W) 0.30 (WE)	0.50 (ML)	0.18 (ML)	[0.11, 0.24]	0.16 (RI)	[0.07, 0.26]			
tri	8x	5	15	0.25 (ML)	0.28 (MM)	0.10 (ML)	0.07 (ML)	0.03 (ML)	0.00 (ML)	0.06 (WE)	0.20 (ML)	0.05 (MM)	0.30 (ML)	0.15 (MM)	0.30 (RI)	0.40 (LO)	0.54 (ML)	0.16 (ML)	[0.09, 0.22]	0.17 (ML)	[0.05, 0.29]
tri	8x	5	20	0.32 (ML)	0.24 (ML)	0.12 (ML)	0.13 (MM)	0.03 (ML)	0.01 (MM)	0.07 (WE)	0.04 (MM)	0.20 (ML)	0.30 (LO)	0.20 (MM)	0.40 (ML)	0.30 (LO, W) 0.55 (ML)	0.15 (MM)	[0.13, 0.17]	0.20 (MM)	[0.17, 0.24]	
tri	8x	10	2	0.05 (RI)	0.05 (VR)	0.00 (VR)	0.04 (PD)	0.02 (VR)	0.01 (VR)	0.02 (MM)	0.11 (VR)	0.17 (VR)	0.45 (PD)	0.47 (PD)	0.25 (PD)	0.36 (FA)	0.56 (MM)	0.19 (VR)	[0.18, 0.20]	0.26 (VR)	[0.23, 0.28]
tri	8x	10	3	0.30 (ML)	0.18 (ML)	0.02 (RI)	0.04 (RI)	0.03 (ML)	0.02 (RI)	0.05 (WE)	0.10 (RI)	0.20 (ML)	0.40 (LO)	0.30 (LO)	0.20 (RI)	0.30 (LO)	0.42 (ML)	0.06 (ML)	[0.01, 0.10]	0.06 (MM)	[0.04, 0.08]
tri	8x	10	4	0.20 (WE)	0.17 (ML)	0.02 (WE)	0.07 (ML)	0.02 (MM)	0.03 (WE)	0.10 (LO)	0.17 (MM)	0.20 (WE)	0.20 (WE)	0.10 (ML, L) 0.20 (RI, L) 0.30 (LO)	0.41 (ML)	0.06 (ML)	[0.01, 0.11]	0.05 (MM)	[0.03, 0.08]		
tri	8x	10	5	0.29 (MM)	0.26 (ML)	0.06 (ML)	0.05 (ML)	0.01 (ML)	0.00 (MM)	0.09 (LO)	0.10 (ML)	0.30 (ML)	0.13 (MM)	0.50 (RI)	0.20 (ML, R) 0.30 (RI)	0.46 (ML)	0.05 (MM)	[0.04, 0.06]	0.11 (ML)	[0.00, 0.22]	
tri	8x	10	10	0.32 (MM)	0.29 (ML)	0.14 (ML)	0.14 (MM)	0.00 (ML)	0.01 (MM)	0.06 (WE)	0.05 (MM)	0.10 (RI)	0.30 (ML)	0.20 (MM)	0.30 (RI)	0.40 (LO)	0.52 (ML)	0.19 (ML)	[0.13, 0.26]	0.18 (MM)	[0.14, 0.21]
tri	8x	10	15	0.30 (ML)	0.32 (MM)	0.09 (ML)	0.14 (MM)	0.04 (MM)	0.00 (ML)	0.06 (WE)	0.10 (RI)	0.05 (MM)	0.30 (ML)	0.17 (MM)	0.30 (LO)	0.30 (WE)	0.58 (ML)	0.18 (ML)	[0.11, 0.24]	0.24 (LO)	[0.14, 0.33]
tri	8x	10	20	0.30 (MM)	0.24 (ML)	0.11 (ML)	0.14 (MM)	0.02 (ML)	0.00 (ML)	0.08 (WE)	0.03 (MM)	0.20 (ML)	0.12 (MM)	0.17 (MM)	0.30 (RI)	0.50 (RI)	0.58 (ML)	0.20 (MM)	[0.18, 0.22]	0.23 (MM)	[0.20, 0.27]
tri	8x	15	2	0.04 (VR)	0.06 (VR)	0.01 (VR)	0.04 (VR)	0.00 (VR)	0.04 (VR)	0.00 (WE)	0.18 (VR)	0.20 (WE)	0.59 (PD)	0.53 (PD)	0.30 (LO)	0.40 (LO)	0.54 (MM)	0.23 (VR)	[0.22, 0.24]	0.35 (VR)	[0.32, 0.37]
tri	8x	15	3	0.29 (ML)	0.19 (ML)	0.03 (WE)	0.01 (LO)	0.01 (WE)	0.00 (LO)	0.06 (WE)	0.02 (MM)	0.20 (ML)	0.30 (LO)	0.20 (ML, R) 0.20 (WE)	0.13 (MM)	0.44 (ML)	0.08 (ML)	[0.03, 0.13]	0.07 (MM)	[0.05, 0.10]	
tri	8x	15	4	0.02 (WE)	0.23 (ML)	0.00 (WE)	0.05 (ML)	0.02 (RI)	0.01 (LO)	0.10 (WE)	0.30 (WE)	0.30 (ML)	0.20 (LO, W) 0.12 (MM)	0.20 (ML, W) 0.30 (ML)	0.44 (ML)	0.06 (ML)	[0.00, 0.12]	0.10 (LO)	[0.01, 0.18]		
tri	8x	15	5	0.26 (ML)	0.30 (ML)	0.00 (ML)	0.09 (MM)	0.03 (ML)	0.00 (RI)	0.09 (LO)	0.10 (ML, R) 0.20 (ML)	0.12 (MM)	0.10 (MM, W) 0.30 (RI)	0.30 (RI)	0.47 (ML)	0.08 (ML)	[0.01, 0.14]	0.09 (LO)	[0.00, 0.18]		
tri	8x	15	10	0.33 (MM)	0.28 (ML)	0.14 (MM)	0.14 (ML)	0.02 (MM)	0.00 (RI)	0.07 (LO)	0.08 (MM)	0.10 (ML)	0.17 (MM)	0.20 (RI, L) 0.30 (LO, W) 0.40 (ML, R) 0.55 (ML)	0.20 (ML)	[0.14, 0.27]	0.22 (MM)	[0.18, 0.25]			
tri	8x	15	15	0.30 (MM)	0.33 (MM)	0.12 (ML)	0.13 (ML)	0.05 (ML)	0.03 (ML)	0.07 (WE)	0.10 (ML)	0.10 (RIO) 0.04 (MM)	0.20 (ML)	0.20 (LO)	0.26 (MM)	0.30 (ML, L) 0.62 (ML)	0.18 (ML)	[0.12, 0.24]	0.24 (ML)	[0.13, 0.35]	
tri	8x	15	20	0.32 (MM)	0.29 (ML)	0.15 (ML)	0.15 (MM)	0.04 (MM)	0.01 (ML)	0.07 (WE)	0.02 (MM)	0.10 (WE)	0.19 (MM)	0.14 (MM)	0.30 (MM)	0.50 (RI)	0.60 (ML)	0.19 (MM)	[0.17, 0.21]	0.25 (MM)	[0.21, 0.28]
tri	8x	20	2	0.03 (WE)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.04 (VR)	0.01 (VR)	0.03 (MM)	0.18 (VR)	0.10 (VR)	0.58 (PD)	0.55 (PD)	0.33 (PD)	0.30 (FA)	0.53 (MM)	0.29 (VR)	[0.27, 0.30]	0.44 (VR)	[0.42, 0.46]
tri	8x	20	3	0.33 (ML)	0.09 (ML)	0.04 (ML)	0.01 (LO)	0.03 (MM)	0.01 (MM)	0.04 (WE)	0.02 (MM)	0.20 (ML, R) 0.30 (ML)	0.20 (RI)	0.30 (LO)	0.30 (ML)	0.41 (ML)	0.08 (ML)	[0.03, 0.13]	0.08 (MM)	[0.05, 0.11]	
tri	8x	20	4	0.20 (WE)	0.22 (ML)	0.02 (WE)	0.07 (ML)	0.01 (MM)	0.01 (WE)	0.06 (WE)	0.10 (RI, L) 0.20 (ML)	0.20 (WE)	0.20 (RI)	0.20 (ML, L) 0.30 (RI, L) 0.45 (ML)	0.06 (ML)	[0.01, 0.12]	0.11 (ML)	[0.00, 0.22]			
tri	8x	20	5	0.29 (ML)	0.29 (ML)	0.09 (ML)	0.13 (ML)	0.04 (ML)	0.01 (LO)	0.09 (LO)	0.10 (MM, W) 0.07 (MM)	0.30 (RI)	0.30 (ML)	0.20 (ML, L) 0.20 (LO)	0.49 (ML)	0.08 (MM)	[0.07, 0.10]	0.21 (ML)	[0.09, 0.32]		
tri	8x	20	10	0.32 (ML)	0.24 (ML)	0.12 (ML)	0.14 (MM)	0.02 (MM)	0.00 (MM)	0.07 (WE)	0.02 (MM)	0.10 (RI)	0.30 (RI)	0.22 (MM)	0.30 (MM, W) 0.50 (ML, R) 0.56 (ML)	0.23 (ML)	[0.16, 0.29]	0.23 (MM)	[0.19, 0.26]		
tri	8x	20	15	0.28 (ML)	0.31 (MM)	0.08 (ML)	0.10 (ML)	0.02 (ML)	0.01 (ML)	0.08 (WE)	0.02 (MM)	0.04 (MM)	0.20 (ML, R) 0.20 (MM)	0.30 (WE)	0.40 (WE)	0.61 (ML)	0.19 (ML)	[0.13, 0.25]	0.24 (MM)	[0.21, 0.28]	
tri	8x	20	20	0.32 (MM)	0.27 (ML)	0.15 (MM)	0.15 (MM)	0.03 (MM)	0.00 (MM)	0.09 (WE)	0.03 (MM)	0.10 (LO)	0.19 (MM)	0.23 (MM)	0.30 (ML, R) 0.30 (RI)	0.60 (ML)	0.22 (MM)	[0.20, 0.23]	0.26 (MM)	[0.22, 0.29]	
tri	8x	50	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.03 (VR)	0.03 (VR)	0.03 (MM)	0.28 (VR)	0.28 (VR)	0.66 (PD)	0.60 (PD)	0.21 (VR, P) 0.44 (FA)	0.68 (FA)	0.44 (VR)	[0.43, 0.46]	0.67 (VR)	[0.65, 0.69]	
tri	8x	50	3	0.36 (ML)	0.15 (ML)	0.03 (ML)	0.04 (LO)	0.02 (WE)	0.02 (MM)	0.07 (LO)	0.10 (ML, R) 0.10 (ML, W) 0.20 (WE)	0.20 (RI)	0.40 (RI)	0.45 (ML)	0.08 (ML)	[0.03, 0.13]	0.10 (MM)	[0.07, 0.12]			
tri	8x	50	4	0.22 (ML)	0.22 (ML)	0.05 (WE)	0.06 (ML)	0.02 (LO)	0.01 (RI)	0.08 (WE)	0.20 (RI)	0.20 (ML)	0.20 (ML, L) 0.19 (MM)	0.20 (RI, L) 0.20 (RI, W) 0.46 (ML)	0.13 (ML)	[0.07, 0.19]	0.10 (MM)	[0.07, 0.13]			
tri	8x	50	5	0.29 (MM)	0.24 (ML)	0.09 (ML)	0.12 (MM)	0.01 (ML)	0.00 (RI)	0.09 (LO)	0.07 (MM)	0.30 (ML)	0.20 (RI)	0.14 (MM)	0.30 (RI)	0.40 (LO)	0.48 (ML)	0.09 (MM)	[0.07, 0.10]	0.15 (LO)	[0.05, 0.24]
tri	8x	50	10	0.32 (MM)	0.29 (MM)	0.13 (MM)	0.14 (MM)	0.02 (MM)	0.01 (WE)	0.07 (WE)	0.01 (MM)	0.06 (MM)	0.20 (WE)	0.21 (MM)	0.36 (MM)	0.38 (MM)	0.58 (ML)	0.25 (ML)	[0.19, 0.31]	0.25 (MM)	[0.22, 0.28]
tri	8x	50	15	0.30 (ML)	0.31 (MM)	0.11 (ML)	0.14 (ML)	0.06 (MM)	0.00 (ML)	0.07 (WE)	0.04 (MM)	0.03 (MM)	0.20 (MM)	0.15 (MM)	0.20 (LO)	0.50 (WE)	0.64 (ML)	0.19 (MM)	[0.17, 0.21]	0.26 (MM)	[0.23, 0.30]
tri	8x	50	20	0.32 (MM)	0.27 (ML)	0.15 (MM)	0.15 (MM)	0.03 (MM)	0.01 (ML)	0.08 (WE)	0.02 (MM)	0.10 (ML, W) 0.21 (MM)	0.22 (MM)	0.30 (ML, R) 0.40 (ML)	0.61 (ML)	0.22 (MM)	[0.20, 0.24]	0.28 (MM)	[0.25, 0.32]		

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	8x	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (LO)	0.00 (RI)	0.33 (VR)	0.45 (VR)	0.66 (PD)	0.63 (PD)	0.33 (VR)	0.34 (VR)	0.80 (FA)	0.55 (VR)	[0.54, 0.56]	0.78 (VR)	[0.76, 0.79]
tri	8x	100	3	0.36 (ML)	0.20 (ML)	0.02 (ML)	0.03 (LO)	0.03 (WE)	0.00 (LO)	0.07 (LO)	0.10 (WE)	0.20 (RI)	0.20 (ML)	0.20 (LO)	0.11 (MM)	0.40 (LO)	0.43 (ML)	0.09 (ML)	[0.03, 0.14]	0.12 (ML)	[0.02, 0.22]
tri	8x	100	4	0.15 (WE)	0.23 (ML)	0.06 (WE)	0.06 (ML)	0.00 (RI)	0.02 (RI)	0.09 (WE)	0.30 (ML)	0.10 (ML)	0.20 (ML)	0.20 (LO)	0.20 (ML)	0.20 (RI)	0.47 (ML)	0.11 (ML)	[0.05, 0.17]	0.12 (MM)	[0.09, 0.15]
tri	8x	100	5	0.31 (MM)	0.25 (ML)	0.10 (ML)	0.13 (ML)	0.00 (ML)	0.01 (MM)	0.09 (LO)	0.10 (WE)	0.20 (ML)	0.11 (MM)	0.30 (ML)	0.20 (WE)	0.20 (RI)	0.47 (ML)	0.10 (MM)	[0.08, 0.12]	0.17 (ML)	[0.05, 0.28]
tri	8x	100	10	0.32 (MM)	0.29 (MM)	0.14 (MM)	0.14 (MM)	0.02 (MM)	0.01 (MM)	0.08 (WE)	0.03 (MM)	0.10 (ML)	0.30 (ML)	0.15 (MM)	0.31 (MM)	0.40 (ML)	0.59 (ML)	0.24 (ML)	[0.17, 0.30]	0.25 (MM)	[0.22, 0.28]
tri	8x	100	15	0.28 (ML)	0.31 (MM)	0.13 (MM)	0.13 (MM)	0.06 (MM)	0.02 (MM)	0.07 (WE)	0.00 (MM)	0.02 (MM)	0.20 (ML)	0.10 (26)	0.23 (MM)	0.60 (WE)	0.65 (ML)	0.20 (MM)	[0.18, 0.22]	0.27 (MM)	[0.23, 0.30]
tri	8x	100	20	0.32 (MM)	0.28 (ML)	0.15 (MM)	0.15 (MM)	0.04 (MM)	0.00 (ML)	0.08 (WE)	0.02 (MM)	0.10 (ML)	0.23 (MM)	0.23 (MM)	0.30 (LO)	0.40 (ML)	0.60 (ML)	0.22 (MM)	[0.21, 0.24]	0.28 (MM)	[0.25, 0.31]
tri	8x	500	2	0.01 (VR)	0.00 (VR)	0.02 (RI)	0.70 (VR)	0.65 (VR)	0.75 (PD)	0.74 (VR)	0.74 (VR)	0.82 (VR)	0.90 (FA)	0.70 (VR)	[0.70, 0.71]	0.94 (VR)	[0.94, 0.95]				
tri	8x	500	3	0.35 (ML)	0.12 (ML)	0.03 (ML)	0.03 (LO)	0.00 (WE)	0.01 (LO)	0.07 (WE)	0.10 (ML)	0.30 (RI)	0.20 (ML)	0.30 (LO)	0.10 (LO)	0.40 (LO)	0.44 (ML)	0.08 (ML)	[0.03, 0.14]	0.11 (MM)	[0.08, 0.14]
tri	8x	500	4	0.21 (WE)	0.23 (ML)	0.02 (WE)	0.11 (ML)	0.03 (LO)	0.02 (RI)	0.10 (WE)	0.20 (ML)	0.30 (ML)	0.20 (ML)	0.22 (MM)	0.30 (LO)	0.20 (ML)	0.47 (ML)	0.14 (ML)	[0.08, 0.20]	0.13 (MM)	[0.10, 0.16]
tri	8x	500	5	0.30 (MM)	0.27 (ML)	0.09 (ML)	0.13 (MM)	0.01 (ML)	0.00 (MM)	0.09 (LO)	0.10 (ML)	0.11 (MM)	0.12 (MM)	0.20 (ML)	0.20 (LO)	0.30 (LO)	0.47 (ML)	0.10 (MM)	[0.09, 0.12]	0.16 (ML)	[0.04, 0.28]
tri	8x	500	10	0.33 (MM)	0.29 (MM)	0.14 (MM)	0.15 (MM)	0.02 (MM)	0.01 (RI)	0.07 (WE)	0.00 (MM)	0.08 (MM)	0.10 (ML)	0.13 (MM)	0.34 (MM)	0.35 (MM)	0.60 (ML)	0.24 (ML)	[0.17, 0.30]	0.26 (MM)	[0.23, 0.29]
tri	8x	500	15	0.29 (ML)	0.31 (MM)	0.12 (ML)	0.14 (MM)	0.05 (MM)	0.02 (MM)	0.07 (WE)	0.01 (MM)	0.02 (MM)	0.20 (ML)	0.23 (MM)	0.24 (MM)	0.50 (LO)	0.66 (ML)	0.20 (MM)	[0.18, 0.22]	0.27 (MM)	[0.24, 0.31]
tri	8x	500	20	0.32 (MM)	0.29 (ML)	0.14 (MM)	0.15 (MM)	0.03 (MM)	0.00 (ML)	0.08 (WE)	0.01 (MM)	0.10 (ML)	0.27 (MM)	0.28 (MM)	0.30 (ML)	0.40 (ML)	0.62 (ML)	0.23 (MM)	[0.21, 0.25]	0.28 (MM)	[0.25, 0.32]
tri	8x	1000	2	0.00 (VR)	0.03 (MM)	0.88 (VR)	0.89 (VR)	0.82 (VR)	0.84 (VR)	0.86 (VR)	0.85 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.72]	0.97 (VR)	[0.97, 0.97]					
tri	8x	1000	3	0.34 (ML)	0.16 (ML)	0.03 (ML)	0.02 (LO)	0.00 (WE)	0.01 (MM)	0.06 (WE)	0.10 (ML)	0.30 (RI)	0.10 (MM)	0.20 (ML)	0.11 (MM)	0.30 (RI)	0.45 (ML)	0.09 (ML)	[0.03, 0.14]	0.12 (MM)	[0.09, 0.15]
tri	8x	1000	4	0.19 (WE)	0.21 (ML)	0.05 (WE)	0.10 (ML)	0.02 (LO)	0.02 (RI)	0.09 (WE)	0.10 (ML)	0.40 (ML)	0.20 (RI)	0.20 (WE)	0.30 (LO)	0.20 (RI)	0.47 (ML)	0.11 (ML)	[0.05, 0.18]	0.13 (MM)	[0.10, 0.16]
tri	8x	1000	5	0.30 (ML)	0.27 (ML)	0.10 (ML)	0.13 (MM)	0.02 (ML)	0.00 (MM)	0.09 (LO)	0.10 (ML)	0.11 (MM)	0.20 (ML)	0.30 (ML)	0.30 (LO)	0.20 (LO)	0.46 (ML)	0.11 (MM)	[0.09, 0.12]	0.19 (ML)	[0.07, 0.30]
tri	8x	1000	10	0.33 (MM)	0.29 (MM)	0.14 (MM)	0.15 (MM)	0.02 (MM)	0.00 (LO)	0.07 (WE)	0.00 (MM)	0.10 (ML)	0.12 (MM)	0.20 (WE)	0.38 (MM)	0.37 (MM)	0.61 (ML)	0.24 (ML)	[0.17, 0.30]	0.26 (MM)	[0.23, 0.30]
tri	8x	1000	15	0.29 (ML)	0.31 (MM)	0.12 (ML)	0.14 (MM)	0.06 (MM)	0.02 (MM)	0.07 (WE)	0.01 (MM)	0.02 (MM)	0.19 (MM)	0.24 (MM)	0.25 (MM)	0.40 (LO)	0.67 (ML)	0.20 (MM)	[0.18, 0.22]	0.27 (MM)	[0.24, 0.31]
tri	8x	1000	20	0.32 (MM)	0.29 (ML)	0.14 (MM)	0.15 (MM)	0.03 (MM)	0.00 (ML)	0.08 (WE)	0.02 (MM)	0.10 (ML)	0.29 (MM)	0.28 (MM)	0.30 (RI)	0.40 (ML)	0.63 (ML)	0.23 (MM)	[0.21, 0.25]	0.28 (MM)	[0.25, 0.32]
tri	4x*	5	2	0.03 (VR)	0.01 (VR)	0.01 (VR)	0.08 (VR)	0.03 (WE)	0.00 (PD)	0.05 (MM)	0.16 (ML)	0.15 (ML)	0.16 (FA)	0.24 (PD)	0.23 (PD)	0.20 (ML)	0.44 (ML)	0.12 (PD)	[0.11, 0.14]	0.16 (VR)	[0.14, 0.18]
tri	4x*	5	3	0.08 (ML)	0.14 (ML)	0.04 (WE)	0.00 (LO)	0.05 (MM)	0.02 (LO)	0.09 (LO)	0.13 (ML)	0.20 (WE)	0.30 (WE)	0.30 (WE)	0.13 (MM)	0.18 (ML)	0.45 (ML)	0.14 (ML)	[0.13, 0.16]	0.13 (ML)	[0.10, 0.16]
tri	4x*	5	4	0.10 (ML)	0.09 (ML)	0.03 (MM)	0.01 (ML)	0.01 (RI)	0.01 (RI)	0.06 (RI)	0.40 (WE)	0.22 (ML)	0.21 (ML)	0.20 (WE)	0.13 (MM)	0.22 (ML)	0.49 (ML)	0.16 (ML)	[0.14, 0.18]	0.24 (ML)	[0.21, 0.27]
tri	4x*	5	5	0.02 (RI)	0.14 (ML)	0.03 (MM)	0.01 (ML)	0.03 (LO)	0.02 (WE)	0.05 (WE)	0.40 (LO)	0.20 (WE)	0.23 (ML)	0.40 (LO)	0.20 (LO)	0.40 (RI)	0.49 (ML)	0.18 (ML)	[0.17, 0.20]	0.26 (RI)	[0.17, 0.34]
tri	4x*	5	10	0.09 (ML)	0.14 (WE)	0.00 (WE)	0.01 (ML)	0.02 (LO)	0.00 (RI)	0.08 (WE)	0.37 (ML)	0.20 (RI)	0.30 (LO)	0.31 (ML)	0.20 (MM)	0.30 (RI)	0.53 (ML)	0.30 (ML)	[0.28, 0.32]	0.36 (ML)	[0.33, 0.40]
tri	4x*	5	15	0.09 (LO)	0.18 (ML)	0.01 (ML)	0.02 (ML)	0.02 (MM)	0.03 (MM)	0.09 (WE)	0.20 (WE)	0.30 (WE)	0.37 (ML)	0.34 (ML)	0.40 (RI)	0.30 (WE)	0.55 (ML)	0.35 (ML)	[0.33, 0.37]	0.46 (LO)	[0.37, 0.55]
tri	4x*	5	20	0.14 (ML)	0.18 (ML)	0.01 (LO)	0.05 (ML)	0.00 (RI)	0.01 (MM)	0.08 (WE)	0.20 (RI)	0.20 (RI)	0.44 (ML)	0.30 (ML)	0.40 (RI)	0.38 (ML)	0.58 (ML)	0.37 (ML)	[0.35, 0.39]	0.50 (ML)	[0.47, 0.53]
tri	4x*	10	2	0.02 (VR)	0.08 (LO)	0.01 (MM)	0.00 (VR)	0.01 (RI)	0.01 (PD)	0.03 (RI)	0.15 (ML)	0.12 (VR)	0.20 (RI)	0.20 (LO)	0.22 (PD)	0.26 (FA)	0.47 (ML)	0.20 (VR)	[0.18, 0.21]	0.27 (VR)	[0.24, 0.29]
tri	4x*	10	3	0.09 (ML)	0.14 (ML)	0.01 (WE)	0.00 (MM)	0.00 (LO)	0.08 (LO)	0.22 (ML)	0.19 (ML)	0.21 (ML)	0.23 (ML)	0.08 (MM)	0.25 (ML)	0.47 (ML)	0.20 (ML)	[0.18, 0.22]	0.22 (ML)	[0.18, 0.25]	
tri	4x*	10	4	0.11 (ML)	0.12 (ML)	0.03 (MM)	0.00 (LO)	0.00 (WE)	0.01 (MM)	0.08 (RI)	0.17 (ML)	0.20 (RI)	0.30 (LO)	0.20 (LO)	0.11 (MM)	0.27 (ML)	0.51 (ML)	0.24 (ML)	[0.22, 0.26]	0.31 (ML)	[0.27, 0.34]
tri	4x*	10	5	0.04 (WE)	0.15 (ML)	0.01 (ML)	0.00 (WE)	0.00 (MM)	0.04 (MM)	0.03 (WE)	0.30 (LO)	0.20 (RI)	0.34 (ML)	0.20 (ML)	0.30 (LO)	0.25 (ML)	0.52 (ML)	0.26 (ML)	[0.24, 0.28]	0.34 (ML)	[0.31, 0.38]
tri	4x*	10	10	0.11 (ML)	0.16 (RI)	0.00 (RI)	0.02 (ML)	0.01 (ML)	0.00 (RI)	0.08 (WE)	0.19 (ML)	0.30 (LO)	0.43 (ML)	0.40 (ML)	0.30 (MM)	0.33 (ML)	0.58 (ML)	0.35 (ML)	[0.33, 0.37]	0.48 (ML)	[0.45, 0.51]
tri	4x*	10	15	0.10 (LO)	0.16 (RI)	0.00 (LO)	0.04 (ML)	0.01 (LO)	0.01 (MM)	0.09 (MM)	0.17 (ML)	0.20 (RI)	0.42 (ML)	0.40 (RI)	0.50 (RI)	0.50 (ML)	0.61 (ML)	0.41 (WE)	[0.35, 0.46]	0.52 (ML)	[0.49, 0.54]
tri	4x*	10	20	0.12 (ML)	0.19 (ML)	0.01 (ML)	0.05 (ML)	0.01 (ML)	0.00 (MM)	0.07 (WE)	0.14 (ML)	0.10 (RI)	0.42 (ML)	0.39 (ML)	0.43 (ML)	0.37 (MM)	0.65 (ML)	0.43 (WE)	[0.38, 0.48]	0.57 (ML)	[0.54, 0.59]

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	4x*	15	2	0.03 (VR)	0.01 (LO)	0.02 (VR)	0.02 (VR)	0.01 (LO)	0.02 (PD)	0.01 (RI)	0.20 (ML)	0.20 (LO,RI,0.17 (PD))	0.21 (VR)	0.17 (FA)	0.31 (FA)	0.47 (ML)	0.24 (VR)	[0.23,0.26]	0.37 (VR)	[0.35,0.39]	
tri	4x*	15	3	0.10 (ML)	0.15 (ML)	0.00 (MM)	0.01 (LO)	0.01 (MM)	0.01 (MM)	0.09 (WE)	0.20 (ML)	0.30 (WE)	0.21 (ML)	0.14 (MM)	0.20 (LO)	0.25 (ML)	0.50 (ML)	0.25 (ML)	[0.23,0.27]	0.24 (ML)	[0.20,0.27]
tri	4x*	15	4	0.11 (ML)	0.12 (ML)	0.00 (LO)	0.04 (ML)	0.00 (LO)	0.01 (LO)	0.09 (LO)	0.20 (RI)	0.19 (ML)	0.33 (ML)	0.24 (ML)	0.20 (WE)	0.28 (ML)	0.54 (ML)	0.27 (ML)	[0.25,0.29]	0.36 (ML)	[0.33,0.39]
tri	4x*	15	5	0.01 (WE)	0.16 (ML)	0.01 (WE)	0.01 (ML)	0.00 (MM)	0.01 (WE)	0.05 (WE)	0.18 (ML)	0.30 (WE)	0.40 (RI)	0.30 (ML,RI,0.20 (MM,RI,0.30 (RI))	0.55 (ML)	0.29 (ML)	0.27 (ML)	[0.27,0.31]	0.37 (ML)	[0.33,0.40]	
tri	4x*	15	10	0.10 (RI)	0.13 (WE)	0.01 (ML)	0.06 (ML)	0.01 (LO)	0.01 (LO)	0.08 (WE)	0.20 (RI)	0.20 (RI)	0.41 (ML)	0.20 (ML)	0.50 (RI)	0.50 (RI)	0.63 (ML)	0.40 (WE)	[0.34,0.45]	0.52 (ML)	[0.49,0.55]
tri	4x*	15	15	0.13 (ML)	0.12 (RI)	0.00 (RI)	0.05 (ML)	0.00 (LO)	0.01 (ML)	0.08 (WE)	0.10 (ML,LI,0.20 (RI,RI,0.60 (LO))	0.30 (LO)	0.50 (RI)	0.52 (ML)	0.66 (ML)	0.39 (WE)	[0.34,0.44]	0.58 (ML)	[0.55,0.60]		
tri	4x*	15	20	0.12 (LO)	0.18 (ML)	0.00 (RI)	0.05 (RI)	0.01 (ML)	0.00 (WE)	0.07 (WE)	0.10 (RI,LI,0.10 (RI,RI,0.80 (RI))	0.40 (RI)	0.60 (RI,LI,0.50 (LO))	0.71 (ML)	0.45 (WE)	[0.39,0.50]	0.61 (LO)	[0.53,0.68]			
tri	4x*	20	2	0.05 (ML)	0.02 (VR)	0.05 (VR)	0.01 (VR)	0.00 (MM)	0.00 (PD)	0.02 (WE)	0.30 (LO)	0.12 (VR)	0.19 (VR)	0.23 (VR)	0.31 (PD)	0.37 (PD)	0.49 (ML)	0.29 (VR)	[0.28,0.30]	0.40 (VR)	[0.37,0.42]
tri	4x*	20	3	0.11 (ML)	0.18 (ML)	0.01 (RI)	0.01 (MM)	0.01 (RI)	0.02 (MM)	0.08 (WE)	0.12 (ML)	0.19 (ML)	0.20 (ML,LI,0.11 (ML))	0.20 (WE)	0.21 (ML)	0.52 (ML)	0.28 (ML)	[0.26,0.30]	0.30 (ML)	[0.26,0.33]	
tri	4x*	20	4	0.12 (RI)	0.14 (ML)	0.00 (LO)	0.04 (ML)	0.00 (LO)	0.03 (MM)	0.08 (RI)	0.20 (RI)	0.12 (ML)	0.20 (ML)	0.19 (ML)	0.18 (ML)	0.35 (ML)	0.56 (ML)	0.28 (ML)	[0.26,0.30]	0.39 (ML)	[0.36,0.42]
tri	4x*	20	5	0.08 (WE)	0.14 (ML)	0.01 (RI)	0.02 (ML)	0.02 (ML)	0.01 (LO)	0.05 (WE)	0.20 (RI)	0.30 (WE)	0.50 (RI)	0.30 (RI)	0.33 (ML)	0.30 (RI)	0.57 (ML)	0.30 (ML)	[0.28,0.32]	0.42 (ML)	[0.38,0.45]
tri	4x*	20	10	0.11 (WE)	0.14 (LO)	0.00 (WE)	0.00 (WE)	0.01 (ML)	0.00 (WE)	0.08 (WE)	0.20 (LO)	0.30 (RI)	0.50 (ML,LI,0.60 (RI,RI,0.40 (RI))	0.50 (LO)	0.65 (ML)	0.37 (ML)	[0.35,0.38]	0.54 (ML)	[0.51,0.56]		
tri	4x*	20	15	0.07 (LO)	0.15 (WE)	0.00 (WE)	0.05 (ML)	0.00 (WE)	0.00 (MM)	0.09 (WE)	0.30 (LO)	0.10 (RI,LI,0.56 (MM))	0.30 (LO)	0.51 (ML)	0.58 (ML)	0.69 (ML)	0.42 (WE)	[0.36,0.46]	0.58 (LO)	[0.49,0.65]	
tri	4x*	20	20	0.12 (LO)	0.19 (ML)	0.02 (ML)	0.05 (LO)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.20 (LO)	0.10 (LO)	0.50 (LO)	0.28 (ML)	0.45 (ML)	0.60 (RI)	0.73 (ML)	0.43 (WE)	[0.37,0.47]	0.57 (ML)	[0.55,0.59]
tri	4x*	50	2	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.00 (ML)	0.00 (MM)	0.00 (PD)	0.01 (RI)	0.34 (VR)	0.33 (VR)	0.25 (VR)	0.28 (VR)	0.50 (PD)	0.59 (PD)	0.49 (FA)	0.46 (VR)	[0.45,0.47]	0.64 (VR)	[0.62,0.66]
tri	4x*	50	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.01 (ML)	0.01 (MM)	0.00 (MM)	0.07 (RI)	0.10 (ML,RI,0.16 (ML))	0.15 (ML)	0.11 (ML)	0.16 (ML)	0.30 (LO)	0.55 (ML)	0.30 (ML)	[0.28,0.32]	0.33 (ML)	[0.29,0.36]	
tri	4x*	50	4	0.10 (RI)	0.15 (ML)	0.01 (MM)	0.06 (ML)	0.01 (MM)	0.01 (MM)	0.09 (LO)	0.10 (RI,LI,0.13 (ML))	0.30 (RI,LI,0.20 (RI))	0.40 (RI)	0.37 (ML)	0.62 (ML)	0.31 (ML)	[0.30,0.33]	0.43 (ML)	[0.39,0.46]		
tri	4x*	50	5	0.01 (WE)	0.13 (LO)	0.00 (ML)	0.00 (LO)	0.01 (ML)	0.00 (RI)	0.04 (WE)	0.30 (WE)	0.20 (RI)	0.39 (ML)	0.20 (LO)	0.40 (LO)	0.51 (ML)	0.64 (ML)	0.31 (ML)	[0.29,0.33]	0.45 (ML)	[0.42,0.48]
tri	4x*	50	10	0.10 (WE)	0.15 (LO)	0.00 (ML)	0.00 (WE)	0.00 (RI)	0.01 (MM)	0.08 (WE)	0.20 (RI)	0.10 (RI,LI,0.60 (ML,LI,0.30 (RI,RI,0.70 (RI,RI,0.61 (ML))	0.73 (ML)	0.42 (WE)	[0.37,0.46]	0.55 (ML)	[0.53,0.58]				
tri	4x*	50	15	0.12 (LO)	0.16 (WE)	0.00 (RI)	0.04 (RI)	0.00 (LO)	0.00 (WE)	0.08 (WE)	0.10 (LO)	0.20 (LO)	0.70 (ML,RI,0.60 (RI))	0.70 (LO)	0.67 (ML)	0.79 (ML)	0.50 (WE)	[0.45,0.54]	0.61 (LO)	[0.53,0.67]	
tri	4x*	50	20	0.14 (LO)	0.19 (ML)	0.01 (ML)	0.04 (LO)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.01 (ML)	0.02 (ML)	0.73 (ML)	0.40 (LO)	0.72 (ML)	0.80 (LO)	0.82 (ML)	0.49 (WE)	[0.45,0.54]	0.59 (ML)	[0.57,0.61]
tri	4x*	100	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (MM)	0.03 (RI)	0.33 (VR)	0.40 (VR)	0.41 (VR)	0.34 (VR)	0.57 (PD)	0.65 (PD)	0.63 (FA)	0.58 (VR)	[0.57,0.59]	0.79 (VR)	[0.77,0.80]
tri	4x*	100	3	0.11 (ML)	0.19 (ML)	0.01 (ML)	0.01 (ML)	0.01 (ML)	0.01 (RI)	0.08 (RI)	0.10 (LO,RI,0.17 (ML))	0.20 (RI,RI,0.20 (RI,RI,0.20 (LO))	0.56 (ML)	0.31 (ML)	[0.29,0.33]	0.35 (ML)	[0.31,0.38]				
tri	4x*	100	4	0.12 (RI)	0.15 (ML)	0.01 (MM)	0.06 (ML)	0.02 (WE)	0.01 (LO)	0.09 (RI)	0.10 (WE)	0.20 (ML)	0.30 (RI)	0.20 (WE)	0.30 (WE)	0.34 (ML)	0.65 (ML)	0.30 (ML)	[0.28,0.32]	0.45 (RI)	[0.36,0.54]
tri	4x*	100	5	0.07 (WE)	0.16 (ML)	0.01 (ML)	0.00 (RI)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.02 (MM,MI,0.20 (LO))	0.40 (LO)	0.30 (RI,LI,0.25 (ML))	0.43 (ML)	0.68 (ML)	0.30 (ML)	[0.28,0.32]	0.48 (RI)	[0.39,0.56]		
tri	4x*	100	10	0.12 (LO)	0.15 (RI)	0.00 (RI)	0.04 (WE)	0.01 (ML)	0.01 (ML)	0.08 (WE)	0.03 (MM,MI,0.10 (RI,LI,0.70 (LO))	0.30 (RI)	0.51 (ML)	0.61 (ML)	0.77 (ML)	0.46 (WE)	[0.41,0.51]	0.56 (ML)	[0.53,0.58]		
tri	4x*	100	15	0.11 (LO)	0.17 (WE)	0.01 (LO)	0.06 (ML)	0.01 (ML)	0.00 (WE)	0.08 (WE)	0.20 (RI)	0.10 (RI)	0.71 (ML)	0.30 (WE)	0.73 (ML)	0.73 (ML)	0.82 (ML)	0.48 (WE)	[0.44,0.53]	0.62 (LO)	[0.55,0.69]
tri	4x*	100	20	0.12 (LO)	0.19 (RI)	0.02 (LO)	0.04 (LO)	0.02 (ML)	0.00 (ML)	0.07 (WE)	0.10 (LO)	0.04 (ML)	0.80 (LO)	0.30 (LO)	0.90 (RI)	0.81 (ML)	0.84 (ML)	0.54 (WE)	[0.49,0.58]	0.61 (LO)	[0.53,0.67]
tri	4x*	500	2	0.00 (VR)	0.00 (MM)	0.01 (RI)	0.75 (VR)	0.65 (VR)	0.73 (VR)	0.75 (VR)	0.72 (VR)	0.89 (PD)	0.88 (FA)	0.72 (VR)	[0.71,0.73]	0.94 (VR)	[0.94,0.95]				
tri	4x*	500	3	0.12 (ML)	0.19 (ML)	0.00 (ML)	0.01 (ML)	0.01 (LO)	0.00 (MM)	0.08 (RI)	0.10 (RI,LI,0.20 (ML))	0.20 (WE)	0.10 (RI,RI,0.20 (LO))	0.20 (RI)	0.55 (ML)	0.32 (ML)	[0.30,0.34]	0.36 (ML)	[0.33,0.39]		
tri	4x*	500	4	0.11 (RI)	0.16 (ML)	0.00 (MM)	0.05 (LO)	0.02 (MM)	0.01 (ML)	0.09 (RI)	0.10 (RI)	0.20 (ML)	0.20 (WE)	0.20 (WE)	0.40 (WE)	0.30 (WE)	0.65 (ML)	0.30 (ML)	[0.28,0.32]	0.49 (RI)	[0.40,0.57]
tri	4x*	500	5	0.04 (WE)	0.15 (LO)	0.01 (ML)	0.01 (WE)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.10 (RI)	0.30 (RI)	0.50 (RI)	0.10 (RI,MI,0.23 (ML))	0.34 (ML)	0.68 (ML)	0.30 (ML)	[0.28,0.32]	0.52 (RI)	[0.43,0.60]	
tri	4x*	500	10	0.12 (WE)	0.14 (RI)	0.01 (ML)	0.04 (WE)	0.00 (ML)	0.00 (ML)	0.08 (WE)	0.10 (LO)	0.10 (RI,LI,0.70 (RI))	0.20 (RI,RI,0.80 (RI))	0.70 (ML,RI,0.79 (ML))	0.46 (WE)	[0.41,0.50]	0.58 (RI)	[0.50,0.64]			
tri	4x*	500	15	0.11 (LO)	0.16 (WE)	0.00 (LO)	0.06 (ML)	0.01 (LO)	0.00 (ML)	0.08 (WE)	0.01 (MM)	0.10 (RI,LI,0.80 (LO))	0.30 (RI,LI,0.88 (ML))	0.84 (ML)	0.82 (ML)	0.49 (WE)	[0.44,0.54]	0.62 (LO)	[0.55,0.69]		
tri	4x*	500	20	0.13 (LO)	0.18 (RI)	0.02 (ML)	0.05 (LO)	0.02 (ML)	0.00 (ML)	0.07 (WE)	0.00 (MM,MI,0.03 (MM,MI,0.00 (LO))	0.30 (LO)	1.00 (RI)	0.90 (RI)	0.84 (RI)	0.55 (WE)	[0.51,0.59]	0.61 (LO)	[0.54,0.67]		

dist	2n	loci	al	RMSE						IC						CCC						
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
tri	4x*	1000	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.02 (RI)	0.90 (VR)	0.82 (VR)	0.88 (VR)	0.81 (VR)	0.83 (VR)	0.97 (PD)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]	
tri	4x*	1000	3	0.11 (ML)	0.19 (ML)	0.00 (ML)	0.01 (ML)	0.01 (ML)	0.00 (MM)	0.08 (RI)	0.10 (LO)	0.23 (ML)	0.10 (LO)	0.10 (RI)	0.10 (LO)	0.10 (WE)	0.17 (ML)	0.55 (ML)	0.32 (ML)	[0.30, 0.34]	0.36 (ML)	[0.33, 0.40]
tri	4x*	1000	4	0.11 (RI)	0.15 (ML)	0.00 (MM)	0.07 (ML)	0.02 (WE)	0.01 (ML)	0.09 (RI)	0.10 (RI)	0.18 (ML)	0.30 (WE)	0.10 (WE)	0.50 (WE)	0.30 (WE)	0.65 (ML)	0.30 (ML)	[0.28, 0.31]	0.46 (RI)	[0.37, 0.54]	
tri	4x*	1000	5	0.04 (WE)	0.16 (LO)	0.01 (ML)	0.00 (WE)	0.01 (ML)	0.00 (ML)	0.04 (WE)	0.02 (ML)	0.30 (RI)	0.40 (RI)	0.01 (ML)	0.20 (RI)	0.25 (ML)	0.68 (ML)	0.30 (RI)	[0.25, 0.35]	0.53 (RI)	[0.44, 0.61]	
tri	4x*	1000	10	0.11 (WE)	0.15 (LO)	0.01 (ML)	0.04 (WE)	0.00 (WE)	0.00 (ML)	0.08 (WE)	0.01 (MM)	0.10 (RI)	0.80 (LO)	0.20 (RI)	0.80 (RI)	0.79 (ML)	0.46 (WE)	[0.41, 0.51]	0.59 (RI)	[0.51, 0.65]		
tri	4x*	1000	15	0.11 (LO)	0.16 (RI)	0.00 (LO)	0.06 (ML)	0.00 (LO)	0.00 (ML)	0.08 (WE)	0.00 (MM)	0.10 (RI)	0.84 (MM)	0.20 (RI)	0.90 (LO)	0.87 (ML)	0.82 (ML)	0.50 (WE)	[0.45, 0.54]	0.63 (LO)	[0.56, 0.69]	
tri	4x*	1000	20	0.13 (LO)	0.18 (RI)	0.02 (ML)	0.04 (LO)	0.02 (ML)	0.00 (ML)	0.07 (WE)	0.00 (MM)	0.03 (MM)	0.10 (LO)	0.92 (MM)	0.90 (RI)	0.85 (RI)	0.55 (WE)	[0.51, 0.59]	0.60 (ML)	[0.58, 0.62]		
tri	6x*	5	2	0.05 (VR)	0.01 (VR)	0.04 (VR)	0.03 (VR)	0.05 (PD)	0.03 (VR)	0.00 (WE)	0.20 (LO)	0.13 (ML)	0.30 (LO)	0.18 (PD)	0.23 (FA)	0.21 (MM)	0.58 (MM)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]	
tri	6x*	5	3	0.08 (ML)	0.14 (ML)	0.04 (LO)	0.01 (ML)	0.03 (MM)	0.00 (LO)	0.08 (WE)	0.20 (ML)	0.13 (ML)	0.20 (LO)	0.20 (LO)	0.14 (ML)	0.18 (ML)	0.45 (ML)	0.09 (ML)	[0.07, 0.10]	0.13 (ML)	[0.10, 0.16]	
tri	6x*	5	4	0.12 (ML)	0.13 (WE)	0.02 (ML)	0.02 (ML)	0.04 (MM)	0.02 (RI)	0.09 (MM)	0.19 (ML)	0.14 (ML)	0.20 (LO)	0.13 (ML)	0.13 (ML)	0.20 (ML)	0.47 (ML)	0.13 (ML)	[0.11, 0.15]	0.19 (ML)	[0.16, 0.23]	
tri	6x*	5	5	0.12 (ML)	0.09 (LO)	0.02 (LO)	0.00 (RI)	0.01 (MM)	0.02 (MM)	0.09 (RI)	0.24 (MM)	0.16 (ML)	0.10 (RI)	0.20 (RI)	0.20 (RI)	0.25 (ML)	0.48 (ML)	0.17 (ML)	[0.15, 0.19]	0.22 (ML)	[0.18, 0.25]	
tri	6x*	5	10	0.15 (ML)	0.15 (RI)	0.02 (LO)	0.06 (ML)	0.02 (RI)	0.00 (MM)	0.09 (LO)	0.25 (ML)	0.20 (RI)	0.20 (RI)	0.30 (LO)	0.50 (RI)	0.30 (ML)	0.52 (ML)	0.22 (ML)	[0.20, 0.24]	0.34 (ML)	[0.30, 0.37]	
tri	6x*	5	15	0.10 (RI)	0.19 (ML)	0.00 (ML)	0.01 (LO)	0.01 (WE)	0.04 (WE)	0.06 (WE)	0.40 (LO)	0.20 (RI)	0.30 (WE)	0.17 (MM)	0.30 (WE)	0.50 (RI)	0.56 (ML)	0.26 (ML)	[0.24, 0.28]	0.41 (RI)	[0.32, 0.49]	
tri	6x*	5	20	0.08 (LO)	0.17 (LO)	0.00 (WE)	0.06 (ML)	0.01 (LO)	0.00 (MM)	0.08 (WE)	0.40 (RI)	0.20 (LO)	0.20 (LO)	0.29 (MM)	0.40 (LO)	0.50 (RI)	0.60 (RI)	0.55 (ML)	0.28 (ML)	[0.26, 0.30]	0.40 (ML)	[0.36, 0.43]
tri	6x*	10	2	0.05 (VR)	0.04 (VR)	0.01 (LO)	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.01 (WE)	0.15 (ML)	0.12 (VR)	0.31 (PD)	0.30 (PD)	0.31 (PD)	0.30 (PD)	0.47 (MM)	0.20 (VR)	[0.18, 0.21]	0.26 (VR)	[0.23, 0.28]	
tri	6x*	10	3	0.03 (LO)	0.12 (ML)	0.01 (MM)	0.03 (ML)	0.03 (MM)	0.01 (WE)	0.09 (MM)	0.21 (ML)	0.22 (ML)	0.10 (MM)	0.20 (LO)	0.10 (LO)	0.30 (LO)	0.17 (ML)	0.46 (ML)	0.16 (ML)	[0.15, 0.18]	0.18 (ML)	[0.15, 0.21]
tri	6x*	10	4	0.14 (ML)	0.18 (WE)	0.02 (ML)	0.03 (ML)	0.01 (MM)	0.01 (WE)	0.09 (MM)	0.28 (ML)	0.18 (MM)	0.30 (LO)	0.15 (MM)	0.20 (RI)	0.20 (ML)	0.49 (ML)	0.17 (ML)	[0.15, 0.19]	0.23 (RI)	[0.14, 0.32]	
tri	6x*	10	5	0.15 (ML)	0.20 (ML)	0.00 (LO)	0.04 (ML)	0.02 (MM)	0.00 (MM)	0.08 (WE)	0.21 (MM)	0.20 (LO)	0.30 (LO)	0.20 (RI)	0.30 (LO)	0.30 (LO)	0.51 (ML)	0.21 (ML)	[0.19, 0.23]	0.36 (RI)	[0.28, 0.44]	
tri	6x*	10	10	0.15 (ML)	0.16 (LO)	0.00 (MM)	0.00 (LO)	0.01 (ML)	0.01 (MM)	0.08 (WE)	0.22 (ML)	0.20 (LO)	0.30 (LO)	0.40 (RI)	0.30 (LO)	0.40 (RI)	0.56 (ML)	0.25 (ML)	[0.23, 0.27]	0.39 (ML)	[0.36, 0.42]	
tri	6x*	10	15	0.16 (WE)	0.16 (LO)	0.01 (ML)	0.01 (LO)	0.00 (WE)	0.02 (MM)	0.08 (WE)	0.17 (ML)	0.16 (ML)	0.40 (WE)	0.30 (WE)	0.70 (RI)	0.40 (WE)	0.60 (ML)	0.28 (ML)	[0.26, 0.30]	0.42 (ML)	[0.39, 0.45]	
tri	6x*	10	20	0.08 (RI)	0.17 (LO)	0.00 (WE)	0.09 (ML)	0.00 (WE)	0.00 (RI)	0.07 (WE)	0.40 (LO)	0.10 (LO)	0.40 (LO)	0.40 (RI)	0.50 (RI)	0.46 (ML)	0.62 (ML)	0.30 (ML)	[0.28, 0.32]	0.42 (ML)	[0.39, 0.45]	
tri	6x*	15	2	0.02 (VR)	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.04 (MM)	0.15 (VR)	0.16 (ML)	0.32 (PD)	0.34 (PD)	0.49 (PD)	0.27 (VR)	0.46 (ML)	0.24 (VR)	[0.23, 0.26]	0.33 (VR)	[0.30, 0.36]	
tri	6x*	15	3	0.00 (LO)	0.13 (ML)	0.00 (MM)	0.03 (ML)	0.01 (MM)	0.01 (LO)	0.09 (MM)	0.22 (ML)	0.18 (ML)	0.20 (LO)	0.09 (ML)	0.10 (MM)	0.50 (LO)	0.48 (ML)	0.18 (ML)	[0.16, 0.20]	0.21 (ML)	[0.17, 0.24]	
tri	6x*	15	4	0.14 (ML)	0.05 (WE)	0.00 (ML)	0.01 (WE)	0.02 (MM)	0.02 (MM)	0.09 (RI)	0.21 (ML)	0.30 (RI)	0.20 (RI)	0.15 (MM)	0.30 (WE)	0.21 (ML)	0.50 (ML)	0.19 (ML)	[0.17, 0.21]	0.29 (ML)	[0.26, 0.33]	
tri	6x*	15	5	0.15 (ML)	0.20 (ML)	0.01 (ML)	0.07 (ML)	0.03 (RI)	0.00 (LO)	0.10 (MM)	0.21 (MM)	0.15 (ML)	0.50 (LO)	0.30 (WE)	0.60 (LO)	0.30 (RI)	0.53 (ML)	0.23 (ML)	[0.21, 0.25]	0.33 (ML)	[0.29, 0.36]	
tri	6x*	15	10	0.15 (ML)	0.15 (RI)	0.00 (MM)	0.01 (WE)	0.00 (ML)	0.00 (WE)	0.09 (MM)	0.19 (MM)	0.20 (LO)	0.21 (ML)	0.30 (LO)	0.40 (RI)	0.40 (LO)	0.59 (ML)	0.27 (ML)	[0.25, 0.29]	0.40 (ML)	[0.36, 0.43]	
tri	6x*	15	15	0.13 (WE)	0.21 (ML)	0.00 (WE)	0.01 (LO)	0.01 (MM)	0.00 (WE)	0.09 (WE)	0.15 (MM)	0.10 (ML)	0.50 (RI)	0.30 (LO)	0.50 (LO)	0.44 (ML)	0.63 (ML)	0.30 (ML)	[0.28, 0.31]	0.44 (ML)	[0.41, 0.47]	
tri	6x*	15	20	0.08 (LO)	0.19 (LO)	0.00 (ML)	0.09 (ML)	0.00 (LO)	0.01 (MM)	0.08 (WE)	0.30 (LO)	0.10 (LO)	0.33 (ML)	0.30 (LO)	0.38 (ML)	0.51 (ML)	0.65 (ML)	0.30 (ML)	[0.28, 0.31]	0.44 (ML)	[0.41, 0.47]	
tri	6x*	20	2	0.03 (WE)	0.02 (VR)	0.01 (VR)	0.01 (ML)	0.01 (WE)	0.02 (VR)	0.04 (MM)	0.30 (WE)	0.24 (VR)	0.28 (PD)	0.25 (PD)	0.43 (PD)	0.26 (FA)	0.46 (ML)	0.28 (VR)	[0.26, 0.29]	0.42 (VR)	[0.39, 0.44]	
tri	6x*	20	3	0.01 (LO)	0.16 (ML)	0.00 (MM)	0.05 (LO)	0.04 (MM)	0.02 (MM)	0.09 (MM)	0.22 (ML)	0.19 (ML)	0.13 (MM)	0.15 (MM)	0.12 (ML)	0.23 (ML)	0.48 (ML)	0.19 (ML)	[0.17, 0.21]	0.23 (ML)	[0.19, 0.26]	
tri	6x*	20	4	0.13 (ML)	0.08 (WE)	0.00 (ML)	0.03 (ML)	0.03 (WE)	0.01 (MM)	0.09 (RI)	0.16 (MM)	0.10 (ML)	0.50 (RI)	0.18 (ML)	0.16 (ML)	0.20 (LO)	0.30 (LO)	0.50 (ML)	0.20 (ML)	[0.18, 0.22]	0.29 (RI)	[0.20, 0.38]
tri	6x*	20	5	0.15 (ML)	0.19 (ML)	0.00 (ML)	0.06 (LO)	0.04 (MM)	0.03 (MM)	0.10 (LO)	0.22 (ML)	0.20 (LO)	0.50 (WE)	0.30 (RI)	0.30 (LO)	0.40 (LO)	0.53 (ML)	0.26 (ML)	[0.24, 0.28]	0.33 (ML)	[0.30, 0.37]	
tri	6x*	20	10	0.14 (ML)	0.18 (LO)	0.00 (MM)	0.02 (WE)	0.00 (ML)	0.02 (MM)	0.09 (MM)	0.27 (ML)	0.20 (RI)	0.40 (LO)	0.30 (LO)	0.40 (LO)	0.59 (ML)	0.27 (ML)	[0.25, 0.29]	0.42 (ML)	[0.38, 0.45]		
tri	6x*	20	15	0.16 (WE)	0.20 (LO)	0.00 (LO)	0.00 (WE)	0.01 (ML)	0.00 (RI)	0.07 (WE)	0.20 (WE)	0.10 (ML)	0.26 (MM)	0.20 (WE)	0.31 (ML)	0.47 (ML)	0.64 (ML)	0.29 (ML)	[0.27, 0.31]	0.45 (ML)	[0.42, 0.47]	
tri	6x*	20	20	0.08 (LO)	0.22 (ML)	0.00 (MM)	0.04 (LO)	0.00 (WE)	0.00 (RI)	0.07 (WE)	0.50 (LO)	0.20 (RI)	0.50 (LO)	0.50 (RI)	0.80 (LO)	0.55 (ML)	0.67 (ML)	0.29 (ML)	[0.27, 0.30]	0.47 (ML)	[0.45, 0.50]	

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	6x*	50	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.35 (VR)	0.28 (VR)	0.28 (PD)	0.26 (VR)	0.57 (PD)	0.37 (FA)	0.60 (FA)	0.46 (VR)	[0.45, 0.47]	0.63 (VR)	[0.61, 0.65]
tri	6x*	50	3	0.07 (RI)	0.14 (RI)	0.01 (RI)	0.03 (ML)	0.01 (MM)	0.00 (LO)	0.10 (WE)	0.20 (LO)	0.21 (ML)	0.30 (LO)	0.20 (RI), L(0.20 (RI), L(0.30 (LO)	0.49 (ML)	0.23 (ML)	[0.21, 0.25]	0.29 (ML)	[0.25, 0.32]		
tri	6x*	50	4	0.14 (ML)	0.10 (WE)	0.01 (ML)	0.02 (WE)	0.01 (MM)	0.01 (WE)	0.10 (MM)	0.20 (RI)	0.20 (RI)	0.20 (LO)	0.20 (MM), L(0.20 (ML), W(0.29 (ML)	0.52 (ML)	0.23 (ML)	[0.21, 0.25]	0.32 (ML)	[0.28, 0.35]		
tri	6x*	50	5	0.16 (ML)	0.23 (LO)	0.02 (LO)	0.09 (ML)	0.03 (MM)	0.02 (MM)	0.09 (WE)	0.20 (LO)	0.20 (RI)	0.30 (RI)	0.30 (WE)	0.20 (WE)	0.40 (RI)	0.56 (ML)	0.27 (ML)	[0.26, 0.29]	0.38 (ML)	[0.35, 0.41]
tri	6x*	50	10	0.16 (ML)	0.13 (LO)	0.01 (MM)	0.04 (WE)	0.01 (ML)	0.00 (LO)	0.09 (MM)	0.26 (MM)	0.40 (RI)	0.12 (ML)	0.30 (RI), L(0.40 (WE)	0.34 (ML)	0.62 (ML)	0.28 (ML)	[0.26, 0.29]	0.43 (ML)	[0.40, 0.46]	
tri	6x*	50	15	0.14 (RI)	0.21 (LO)	0.01 (ML)	0.01 (LO)	0.01 (ML)	0.01 (WE)	0.08 (WE)	0.30 (WE)	0.07 (ML)	0.27 (ML)	0.20 (WE)	0.31 (ML)	0.52 (ML)	0.68 (ML)	0.29 (ML)	[0.27, 0.30]	0.47 (LO)	[0.38, 0.55]
tri	6x*	50	20	0.08 (LO)	0.20 (LO)	0.00 (ML)	0.06 (LO)	0.00 (LO)	0.00 (LO)	0.08 (WE)	0.50 (LO)	0.10 (RI), W(0.32 (ML)	0.50 (LO)	0.43 (ML)	0.51 (ML)	0.70 (ML)	0.29 (WE)	[0.24, 0.34]	0.47 (ML)	[0.44, 0.49]	
tri	6x*	100	2	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (RI)	0.35 (VR)	0.24 (VR)	0.32 (VR)	0.32 (VR)	0.66 (PD)	0.45 (FA)	0.74 (FA)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.77, 0.79]	
tri	6x*	100	3	0.01 (RI)	0.07 (RI)	0.01 (MM)	0.06 (RI)	0.02 (MM)	0.00 (WE)	0.09 (WE)	0.20 (WE)	0.11 (MM), M(0.30 (LO)	0.20 (RI)	0.50 (LO)	0.27 (ML)	0.51 (ML)	0.25 (ML)	[0.23, 0.27]	0.31 (ML)	[0.28, 0.35]	
tri	6x*	100	4	0.13 (ML)	0.09 (WE)	0.01 (ML)	0.04 (WE)	0.01 (MM)	0.00 (WE)	0.10 (MM)	0.21 (ML)	0.10 (RI), L(0.30 (WE)	0.22 (MM)	0.30 (LO)	0.30 (ML), R(0.53 (ML)	0.24 (ML)	[0.22, 0.26]	0.34 (ML)	[0.31, 0.37]		
tri	6x*	100	5	0.16 (ML)	0.18 (LO)	0.01 (LO)	0.09 (ML)	0.02 (MM)	0.00 (RI)	0.10 (MM)	0.30 (RI)	0.10 (RI), L(0.60 (LO)	0.40 (LO)	0.20 (RI), L(0.40 (RI), L(0.57 (ML)	0.28 (ML)	[0.26, 0.30]	0.39 (ML)	[0.36, 0.42]			
tri	6x*	100	10	0.15 (ML)	0.13 (LO)	0.00 (MM)	0.00 (WE)	0.01 (RI)	0.02 (MM)	0.09 (WE)	0.26 (MM)	0.30 (LO)	0.30 (RI)	0.20 (LO)	0.20 (LO), W(0.32 (ML)	0.62 (ML)	0.27 (ML)	[0.25, 0.29]	0.44 (ML)	[0.42, 0.47]	
tri	6x*	100	15	0.13 (RI)	0.21 (LO)	0.00 (LO)	0.01 (LO)	0.00 (RI)	0.01 (ML)	0.08 (WE)	0.30 (LO)	0.10 (LO)	0.30 (RI), L(0.20 (RI), W(0.50 (WE)	0.38 (ML)	0.67 (ML)	0.31 (WE)	[0.25, 0.36]	0.48 (RI)	[0.39, 0.55]		
tri	6x*	100	20	0.08 (LO)	0.22 (LO)	0.01 (ML)	0.06 (LO)	0.01 (LO)	0.00 (ML)	0.07 (WE)	0.50 (LO)	0.04 (ML)	0.50 (RI), L(0.30 (RI), L(0.40 (LO)	0.40 (RI), L(0.50 (ML)	0.70 (ML)	0.32 (WE)	[0.27, 0.37]	0.48 (LO)	[0.39, 0.56]		
tri	500	2	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.05 (MM)	0.65 (VR)	0.66 (VR)	0.72 (VR)	0.72 (VR)	0.79 (PD)	0.67 (VR)	0.90 (FA)	0.70 (VR)	[0.70, 0.71]	0.94 (VR)	[0.94, 0.95]	
tri	500	3	0.02 (WE)	0.18 (ML)	0.01 (MM)	0.06 (ML)	0.01 (MM)	0.01 (RI)	0.09 (WE)	0.11 (ML)	0.10 (RI), L(0.18 (MM)	0.20 (LO)	0.30 (RI)	0.37 (ML)	0.53 (ML)	0.27 (ML)	[0.25, 0.29]	0.33 (ML)	[0.29, 0.36]		
tri	500	4	0.14 (ML)	0.09 (WE)	0.02 (ML)	0.04 (WE)	0.00 (MM)	0.00 (MM)	0.10 (RI)	0.30 (LO)	0.10 (RI)	0.22 (MM)	0.23 (MM)	0.21 (MM)	0.30 (WE)	0.52 (ML)	0.25 (ML)	[0.23, 0.27]	0.34 (ML)	[0.31, 0.38]	
tri	500	5	0.16 (ML)	0.21 (LO)	0.01 (LO)	0.09 (ML)	0.03 (MM)	0.01 (LO)	0.09 (MM)	0.23 (ML)	0.20 (RI)	0.40 (LO)	0.30 (LO)	0.30 (RI)	0.40 (RI)	0.57 (ML)	0.29 (ML)	[0.27, 0.31]	0.39 (ML)	[0.35, 0.42]	
tri	500	10	0.16 (ML)	0.15 (LO)	0.00 (ML)	0.03 (WE)	0.01 (RI)	0.02 (MM)	0.09 (MM)	0.30 (WE)	0.20 (LO)	0.10 (RI), W(0.30 (LO)	0.20 (LO)	0.30 (RI), W(0.62 (ML)	0.27 (ML)	[0.25, 0.29]	0.44 (RI)	[0.35, 0.52]			
tri	500	15	0.14 (RI)	0.20 (LO)	0.01 (RI)	0.01 (LO)	0.00 (RI)	0.00 (WE)	0.08 (WE)	0.19 (MM)	0.10 (WE)	0.20 (RI), W(0.30 (LO)	0.60 (WE)	0.40 (ML)	0.66 (ML)	0.31 (WE)	[0.25, 0.36]	0.48 (LO)	[0.40, 0.56]		
tri	500	20	0.09 (LO)	0.21 (LO)	0.00 (RI)	0.08 (LO)	0.00 (LO)	0.00 (ML)	0.07 (WE)	0.50 (LO)	0.10 (RI), L(0.40 (LO)	0.30 (RI)	0.50 (LO)	0.60 (RI)	0.69 (ML)	0.31 (WE)	[0.26, 0.36]	0.49 (LO)	[0.41, 0.57]		
tri	1000	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.86 (VR)	0.83 (VR)	0.83 (VR)	0.86 (VR)	0.88 (VR)	0.89 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]		
tri	1000	3	0.01 (RI)	0.19 (ML)	0.01 (MM)	0.02 (RI)	0.01 (MM)	0.01 (WE)	0.09 (WE)	0.20 (LO)	0.10 (LO)	0.23 (MM)	0.30 (RI)	0.30 (LO)	0.34 (ML)	0.54 (ML)	0.26 (ML)	[0.24, 0.28]	0.32 (ML)	[0.29, 0.36]	
tri	1000	4	0.14 (ML)	0.08 (WE)	0.01 (RI)	0.03 (WE)	0.00 (MM)	0.00 (MM)	0.10 (MM)	0.20 (RI), L(0.04 (ML)	0.25 (MM)	0.30 (MM)	0.20 (WE)	0.24 (ML)	0.52 (ML)	0.25 (ML)	[0.23, 0.27]	0.34 (ML)	[0.31, 0.37]		
tri	1000	5	0.16 (ML)	0.21 (LO)	0.00 (LO)	0.10 (ML)	0.03 (MM)	0.00 (LO)	0.10 (MM)	0.20 (MM), R(0.20 (RI)	0.40 (RI), W(0.28 (MM)	0.30 (RI)	0.40 (RI)	0.57 (ML)	0.29 (ML)	[0.27, 0.31]	0.39 (ML)	[0.36, 0.42]			
tri	1000	10	0.15 (WE)	0.14 (LO)	0.00 (LO)	0.02 (WE)	0.01 (RI)	0.02 (MM)	0.09 (MM)	0.27 (MM)	0.20 (RI), L(0.10 (WE)	0.30 (LO)	0.20 (WE)	0.23 (ML)	0.62 (ML)	0.27 (ML)	[0.25, 0.28]	0.44 (RI)	[0.35, 0.52]		
tri	1000	15	0.14 (RI)	0.19 (LO)	0.01 (RI)	0.02 (LO)	0.00 (WE)	0.00 (ML)	0.08 (WE)	0.20 (WE)	0.10 (WE)	0.30 (RI), W(0.30 (RI)	0.30 (RI), W(0.33 (ML)	0.65 (ML)	0.30 (WE)	[0.25, 0.36]	0.48 (RI)	[0.39, 0.56]			
tri	1000	20	0.09 (LO)	0.21 (LO)	0.00 (RI)	0.07 (LO)	0.01 (RI)	0.00 (ML)	0.07 (WE)	0.50 (LO)	0.10 (RI), L(0.50 (LO)	0.30 (RI)	0.47 (ML)	0.70 (RI)	0.69 (ML)	0.32 (WE)	[0.27, 0.36]	0.49 (LO)	[0.40, 0.57]		
tri	8x*	5	0.02 (VR)	0.02 (VR)	0.04 (PD)	0.00 (WE)	0.09 (PD)	0.04 (VR)	0.01 (WE)	0.11 (VR)	0.08 (VR)	0.51 (PD)	0.41 (PD)	0.15 (PD)	0.21 (MM)	0.63 (MM)	0.10 (VR)	[0.09, 0.10]	0.15 (VR)	[0.13, 0.16]	
tri	8x*	5	0.06 (ML)	0.05 (ML)	0.02 (ML)	0.11 (ML)	0.02 (RI)	0.02 (MM)	0.07 (LO)	0.20 (WE)	0.20 (ML), R(0.20 (LO)	0.20 (LO)	0.20 (LO)	0.14 (MM)	0.43 (ML)	0.04 (ML)	[0.00, 0.08]	0.07 (LO)	[-0.02, 0.16]		
tri	8x*	5	0.20 (ML)	0.17 (ML)	0.16 (ML)	0.00 (ML)	0.01 (MM)	0.05 (WE)	0.02 (WE)	0.20 (ML), R(0.20 (ML), R(0.11 (MM)	0.10 (LO)	0.07 (MM)	0.20 (RI), L(0.45 (ML)	0.05 (LO)	[0.01, 0.09]	0.10 (LO)	[0.02, 0.18]				
tri	8x*	5	0.17 (ML)	0.32 (MM)	0.11 (ML)	0.04 (ML)	0.01 (ML)	0.04 (ML)	0.08 (LO)	0.14 (MM)	0.10 (MM), M(0.20 (RI)	0.20 (ML), R(0.20 (RI), L(0.40 (LO)	0.45 (ML)	0.05 (MM)	[0.04, 0.06]	0.12 (LO)	[0.03, 0.21]				
tri	8x*	5	0.28 (ML)	0.29 (MM)	0.13 (ML)	0.11 (MM)	0.04 (ML)	0.01 (ML)	0.06 (WE)	0.10 (WE)	0.10 (ML), W(0.20 (WE)	0.13 (MM)	0.40 (ML)	0.30 (RI)	0.47 (ML)	0.15 (ML)	[0.08, 0.21]	0.16 (MM)	[0.12, 0.19]		
tri	8x*	5	0.30 (ML)	0.31 (MM)	0.13 (MM)	0.02 (ML)	0.01 (MM)	0.09 (WE)	0.10 (ML)	0.03 (MM)	0.20 (WE)	0.15 (MM)	0.50 (LO)	0.50 (LO)	0.48 (ML)	0.23 (ML)	[0.17, 0.29]	0.19 (MM)	[0.16, 0.23]		
tri	8x*	5	0.29 (ML)	0.31 (MM)	0.06 (ML)	0.13 (ML)	0.01 (RI)	0.00 (MM)	0.06 (WE)	0.10 (RI), W(0.03 (MM)	0.30 (LO)	0.30 (RI)	0.80 (ML)	0.30 (ML)	0.58 (ML)	0.18 (ML)	[0.11, 0.24]	0.21 (MM)	[0.18, 0.25]		

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	8x*	10	2	0.01 (VR)	0.01 (VR)	0.03 (PD)	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.00 (WE)	0.16 (VR)	0.10 (ML,R10.51 (PD))	0.41 (PD)	0.20 (WE,P10.37 (FA))	0.56 (MM)	0.17 (VR)	[0.16,0.19]	0.25 (VR)	[0.23,0.27]		
tri	8x*	10	3	0.23 (ML)	0.12 (ML)	0.07 (LO)	0.13 (ML)	0.01 (RI)	0.04 (MM)	0.07 (LO)	0.20 (ML)	0.30 (ML)	0.20 (ML)	0.20 (LO)	0.11 (MM)	0.20 (LO)	0.43 (ML)	-0.01 (LO)	0.07 (LO)	-0.02,0.15]	
tri	8x*	10	4	0.20 (ML)	0.24 (ML)	0.14 (ML)	0.08 (ML)	0.00 (ML)	0.01 (RI)	0.03 (WE)	0.11 (MM)	0.10 (ML)	0.20 (WE)	0.30 (RI)	0.10 (ML,L10.20 (LO))	0.46 (ML)	0.07 (LO)	[0.03,0.11]	0.15 (ML)	[0.04,0.26]	
tri	8x*	10	5	0.27 (ML)	0.29 (ML)	0.08 (ML)	0.05 (ML)	0.02 (ML)	0.00 (MM)	0.07 (WE)	0.30 (ML)	0.10 (RI)	0.20 (ML,L10.40 (LO))	0.30 (ML,R10.30 (ML))	0.48 (ML)	0.11 (ML)	[0.05,0.17]	0.20 (ML)	[0.08,0.31]		
tri	8x*	10	10	0.23 (ML)	0.26 (MM)	0.14 (MM)	0.01 (ML)	0.03 (ML)	0.01 (MM)	0.06 (WE)	0.20 (ML)	0.11 (MM)	0.20 (WE)	0.20 (ML)	0.21 (MM)	0.50 (ML,R10.51 (ML))	0.15 (ML)	[0.09,0.22]	0.22 (MM)	[0.19,0.26]	
tri	8x*	10	15	0.33 (MM)	0.31 (MM)	0.12 (MM)	0.01 (ML)	0.00 (RI)	0.10 (WE)	0.10 (RI,L10.03 (MM))	0.21 (MM)	0.20 (ML,R10.30 (ML))	0.60 (LO)	0.53 (ML)	0.18 (ML)	[0.12,0.25]	0.24 (RI)	[0.13,0.33]			
tri	8x*	10	20	0.32 (MM)	0.31 (MM)	0.05 (ML)	0.13 (MM)	0.05 (MM)	0.01 (MM)	0.06 (WE)	0.10 (ML,R10.03 (MM))	0.30 (WE)	0.21 (MM)	0.30 (ML)	0.50 (ML)	0.60 (ML)	0.20 (MM)	[0.18,0.21]	0.23 (MM)	[0.20,0.27]	
tri	8x*	15	2	0.04 (VR)	0.01 (VR)	0.00 (VR)	0.04 (VR)	0.02 (VR)	0.02 (VR)	0.00 (WE)	0.16 (VR)	0.11 (VR)	0.60 (PD)	0.45 (PD)	0.25 (PD)	0.32 (FA)	0.53 (MM)	0.25 (VR)	[0.23,0.26]	0.33 (VR)	[0.31,0.35]
tri	8x*	15	3	0.25 (ML)	0.02 (ML)	0.05 (ML)	0.04 (ML)	0.03 (LO)	0.00 (MM)	0.07 (LO)	0.20 (WE)	0.40 (ML)	0.20 (LO)	0.10 (ML,R10.20 (LO))	0.20 (RI)	0.46 (ML)	0.04 (MM)	[0.03,0.06]	0.06 (MM)	[0.04,0.09]	
tri	8x*	15	4	0.19 (ML)	0.26 (ML)	0.13 (MM)	0.09 (ML)	0.04 (MM)	0.01 (WE)	0.05 (WE)	0.20 (ML)	0.20 (ML)	0.08 (MM)	0.10 (ML,W10.11 (MM))	0.20 (RI,W10.51 (ML))	0.05 (LO)	[0.01,0.10]	0.21 (ML)	[0.10,0.31]		
tri	8x*	15	5	0.28 (ML)	0.35 (ML)	0.11 (MM)	0.01 (ML)	0.02 (ML)	0.02 (MM)	0.08 (LO)	0.10 (ML)	0.05 (MM)	0.30 (ML)	0.20 (ML,R10.30 (RI))	0.40 (ML)	0.48 (ML)	0.11 (ML)	[0.05,0.17]	0.18 (LO)	[0.08,0.27]	
tri	8x*	15	10	0.19 (ML)	0.24 (ML)	0.12 (ML)	0.08 (ML)	0.03 (ML)	0.02 (ML)	0.06 (WE)	0.10 (ML,R10.10 (ML,L10.20 (LO,W10.22 (MM)))	0.30 (ML,L10.24 (MM))	0.53 (ML)	0.18 (ML)	[0.12,0.24]	0.31 (ML)	[0.19,0.41]				
tri	8x*	15	15	0.34 (MM)	0.30 (MM)	0.12 (MM)	0.02 (ML)	0.01 (MM)	0.08 (WE)	0.10 (RI,L10.04 (MM))	0.15 (MM)	0.15 (MM)	0.50 (LO)	0.40 (RI,L10.54 (ML))	0.18 (MM)	[0.17,0.20]	0.23 (MM)	[0.20,0.27]			
tri	8x*	15	20	0.31 (MM)	0.30 (MM)	0.09 (ML)	0.14 (MM)	0.05 (MM)	0.01 (MM)	0.08 (WE)	0.10 (ML,W10.01 (MM))	0.30 (LO,W10.14 (MM))	0.21 (MM)	0.30 (ML)	0.59 (ML)	0.20 (MM)	[0.18,0.21]	0.25 (MM)	[0.22,0.29]		
tri	8x*	20	2	0.00 (ML)	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.05 (VR)	0.04 (VR)	0.04 (RI)	0.10 (VR)	0.10 (VR)	0.52 (PD)	0.52 (PD)	0.28 (PD)	0.40 (LO)	0.52 (MM)	0.32 (VR)	[0.31,0.33]	0.42 (VR)	[0.39,0.44]
tri	8x*	20	3	0.15 (ML)	0.11 (ML)	0.01 (ML)	0.07 (ML)	0.00 (LO)	0.02 (ML)	0.08 (LO)	0.20 (ML)	0.20 (ML)	0.20 (ML,L10.09 (MM))	0.20 (LO)	0.20 (RI)	0.44 (ML)	0.05 (LO)	[0.01,0.10]	0.10 (LO)	[0.01,0.19]	
tri	8x*	20	4	0.19 (ML)	0.26 (ML)	0.13 (ML)	0.07 (ML)	0.03 (MM)	0.05 (RI)	0.08 (LO)	0.20 (ML)	0.15 (MM)	0.09 (MM)	0.30 (ML)	0.20 (LO)	0.48 (ML)	0.12 (ML)	[0.06,0.19]	0.16 (ML)	[0.05,0.27]	
tri	8x*	20	5	0.29 (ML)	0.31 (ML)	0.14 (MM)	0.01 (ML)	0.02 (ML)	0.01 (MM)	0.09 (LO)	0.20 (ML)	0.10 (LO)	0.12 (MM)	0.20 (ML,L10.30 (ML,L10.20 (ML,R10.47 (ML))))	0.15 (ML)	[0.08,0.21]	0.15 (ML)	[0.04,0.27]			
tri	8x*	20	10	0.25 (ML)	0.27 (MM)	0.13 (ML)	0.10 (ML)	0.05 (ML)	0.00 (ML)	0.06 (WE)	0.10 (ML,W10.08 (MM))	0.22 (MM)	0.20 (RI)	0.30 (WE)	0.40 (ML)	0.56 (ML)	0.24 (ML)	[0.18,0.30]	0.24 (MM)	[0.20,0.27]	
tri	8x*	20	15	0.32 (ML)	0.30 (MM)	0.12 (MM)	0.02 (ML)	0.01 (LO)	0.08 (WE)	0.02 (MM)	0.06 (MM)	0.22 (MM)	0.13 (MM)	0.30 (ML,R10.30 (ML,R10.54 (ML)))	0.21 (ML)	[0.15,0.26]	0.25 (ML)	[0.14,0.35]			
tri	8x*	20	20	0.30 (MM)	0.31 (MM)	0.09 (ML)	0.13 (MM)	0.04 (MM)	0.00 (ML)	0.08 (WE)	0.10 (RI)	0.02 (MM)	0.30 (LO)	0.20 (MM)	0.27 (MM)	0.50 (LO)	0.61 (ML)	0.20 (MM)	[0.18,0.22]	0.26 (MM)	[0.23,0.30]
tri	8x*	50	2	0.01 (VR)	0.01 (ML)	0.02 (VR)	0.01 (VR)	0.00 (LO)	0.01 (VR)	0.03 (WE)	0.30 (ML)	0.25 (VR)	0.64 (PD)	0.54 (PD)	0.30 (LO)	0.38 (FA)	0.68 (FA)	0.47 (VR)	[0.45,0.48]	0.64 (VR)	[0.62,0.66]
tri	8x*	50	3	0.24 (ML)	0.04 (ML)	0.05 (ML)	0.17 (ML)	0.01 (RI)	0.02 (MM)	0.08 (LO)	0.30 (ML)	0.40 (RI)	0.10 (ML,L10.20 (RI))	0.20 (LO)	0.40 (LO)	0.43 (ML)	0.05 (MM)	[0.04,0.07]	0.17 (LO)	[0.07,0.26]	
tri	8x*	50	4	0.24 (ML)	0.27 (ML)	0.15 (ML)	0.06 (ML)	0.00 (LO)	0.02 (WE)	0.07 (WE)	0.20 (ML)	0.20 (WE)	0.10 (WE)	0.20 (ML,R10.11 (MM))	0.20 (ML,R10.51 (ML))	0.10 (LO)	[0.05,0.14]	0.15 (ML)	[0.03,0.27]		
tri	8x*	50	5	0.26 (ML)	0.34 (ML)	0.14 (MM)	0.05 (ML)	0.05 (MM)	0.01 (MM)	0.09 (WE)	0.10 (ML,R10.08 (MM))	0.12 (MM)	0.30 (ML,R10.20 (LO,W10.40 (ML,R10.50 (ML))))	0.15 (ML)	[0.08,0.21]	0.16 (MM)	[0.13,0.19]				
tri	8x*	50	10	0.29 (ML)	0.27 (MM)	0.14 (MM)	0.12 (ML)	0.03 (ML)	0.01 (MM)	0.06 (WE)	0.10 (LO,W10.10 (WE))	0.12 (MM)	0.20 (ML)	0.24 (MM)	0.50 (ML)	0.58 (ML)	0.20 (ML)	[0.14,0.26]	0.25 (MM)	[0.22,0.29]	
tri	8x*	50	15	0.33 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (MM)	0.00 (LO)	0.09 (WE)	0.10 (RI)	0.07 (MM)	0.22 (MM)	0.22 (MM)	0.30 (ML,L10.40 (WE))	0.56 (ML)	0.22 (ML)	[0.16,0.28]	0.26 (MM)	[0.23,0.29]	
tri	8x*	50	20	0.31 (MM)	0.30 (MM)	0.08 (ML)	0.13 (MM)	0.05 (MM)	0.01 (MM)	0.07 (WE)	0.10 (WE)	0.03 (MM)	0.30 (LO)	0.25 (MM)	0.21 (MM)	0.70 (ML)	0.63 (ML)	0.22 (MM)	[0.20,0.24]	0.28 (MM)	[0.24,0.31]
tri	8x*	100	2	0.02 (VR)	0.02 (ML)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (RI)	0.37 (VR)	0.31 (VR)	0.65 (PD)	0.55 (PD)	0.34 (VR)	0.38 (VR)	0.81 (FA)	0.58 (VR)	[0.57,0.59]	0.79 (VR)	[0.78,0.80]
tri	8x*	100	3	0.26 (ML)	0.03 (ML)	0.01 (ML)	0.07 (ML)	0.01 (LO)	0.04 (MM)	0.07 (LO)	0.20 (LO)	0.40 (ML)	0.14 (MM)	0.20 (RI)	0.30 (LO)	0.20 (RI)	0.46 (ML)	0.07 (LO)	[0.02,0.12]	0.13 (LO)	[0.04,0.22]
tri	8x*	100	4	0.24 (ML)	0.26 (ML)	0.14 (ML)	0.12 (ML)	0.00 (RI)	0.01 (RI)	0.07 (WE)	0.30 (ML)	0.20 (WE)	0.10 (MM)	0.13 (MM)	0.40 (ML)	0.40 (LO)	0.49 (ML)	0.09 (MM)	[0.08,0.10]	0.20 (ML)	[0.08,0.31]
tri	8x*	100	5	0.24 (ML)	0.34 (MM)	0.14 (MM)	0.03 (ML)	0.03 (ML)	0.00 (MM)	0.09 (WE)	0.20 (RI)	0.05 (MM)	0.20 (ML,W10.40 (LO))	0.20 (RI)	0.30 (ML)	0.50 (ML)	0.14 (ML)	[0.08,0.21]	0.18 (ML)	[0.07,0.30]	
tri	8x*	100	10	0.28 (ML)	0.27 (MM)	0.14 (ML)	0.13 (MM)	0.05 (ML)	0.01 (ML)	0.06 (WE)	0.05 (MM)	0.05 (MM)	0.20 (ML,R10.14 (MM))	0.23 (MM)	0.50 (ML)	0.60 (ML)	0.20 (ML)	[0.14,0.26]	0.27 (MM)	[0.23,0.30]	
tri	8x*	100	15	0.34 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.04 (MM)	0.01 (RI)	0.09 (WE)	0.10 (RI)	0.09 (MM)	0.19 (MM)	0.20 (ML)	0.50 (RI)	0.60 (RI)	0.57 (ML)	0.22 (MM)	[0.20,0.23]	0.27 (MM)	[0.24,0.30]
tri	8x*	100	20	0.31 (MM)	0.31 (MM)	0.11 (ML)	0.14 (MM)	0.05 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML,W10.03 (MM))	0.19 (MM)	0.23 (MM)	0.20 (ML)	0.40 (RI,L10.63 (ML))	0.22 (MM)	0.27 (MM)	[0.20,0.24]	0.27 (MM)	[0.24,0.31]	

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
tri	8x*	500	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.02 (RI)	0.68 (VR)	0.58 (VR)	0.75 (VR)	0.71 (VR)	0.65 (VR)	0.74 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]
tri	8x*	500	3	0.26 (ML)	0.01 (ML)	0.06 (ML)	0.12 (ML)	0.00 (LO)	0.02 (MM)	0.08 (LO)	0.20 (ML), R10.50 (ML)	0.12 (MM)	0.12 (MM)	0.30 (LO)	0.21 (MM)	0.45 (ML)	0.07 (MM)	[0.06, 0.08]	0.18 (LO)	[0.09, 0.27]	
tri	8x*	500	4	0.24 (ML)	0.28 (ML)	0.15 (ML)	0.07 (ML)	0.01 (ML)	0.03 (LO)	0.07 (WE)	0.20 (ML), L10.10 (ML), R10.20 (WE)	0.20 (MM)	0.20 (MM)	0.40 (ML)	0.40 (LO)	0.51 (ML)	0.10 (MM)	[0.08, 0.11]	0.19 (ML)	[0.07, 0.30]	
tri	8x*	500	5	0.26 (ML)	0.34 (MM)	0.14 (MM)	0.02 (ML)	0.05 (ML)	0.01 (MM)	0.09 (LO)	0.10 (RI)	0.05 (MM)	0.20 (ML)	0.30 (RI)	0.20 (RI)	0.40 (RI)	0.50 (ML)	0.14 (ML)	[0.08, 0.21]	0.18 (MM)	[0.14, 0.21]
tri	8x*	500	10	0.28 (ML)	0.26 (MM)	0.14 (MM)	0.14 (MM)	0.05 (ML)	0.01 (MM)	0.06 (WE)	0.04 (MM)	0.08 (MM)	0.20 (ML), W10.10 (ML)	0.29 (MM)	0.32 (MM)	0.60 (ML)	0.20 (ML)	[0.14, 0.25]	0.27 (MM)	[0.24, 0.30]	
tri	8x*	500	15	0.33 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.04 (MM)	0.00 (RI)	0.09 (WE)	0.03 (MM)	0.04 (MM)	0.17 (MM)	0.20 (ML)	0.40 (ML), W10.60 (RI)	0.57 (ML)	0.22 (MM)	[0.20, 0.24]	0.27 (MM)	[0.24, 0.31]	
tri	8x*	500	20	0.31 (MM)	0.31 (MM)	0.09 (ML)	0.13 (MM)	0.04 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML), R10.02 (MM)	0.30 (WE)	0.23 (MM)	0.20 (ML)	0.40 (ML), R10.64 (ML)	0.23 (MM)	[0.21, 0.25]	0.29 (MM)	[0.25, 0.32]		
tri	8x*	1000	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.02 (RI)	0.84 (VR)	0.74 (VR)	0.88 (VR)	0.88 (VR)	0.89 (VR)	0.81 (VR)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]
tri	8x*	1000	3	0.25 (ML)	0.05 (ML)	0.03 (ML)	0.10 (ML)	0.00 (LO)	0.04 (MM)	0.08 (LO)	0.30 (ML)	0.50 (ML)	0.11 (MM)	0.12 (MM)	0.20 (RI), L10.30 (LO)	0.46 (ML)	0.07 (LO)	[0.02, 0.12]	0.17 (LO)	[0.08, 0.26]	
tri	8x*	1000	4	0.27 (ML)	0.27 (ML)	0.15 (ML)	0.09 (ML)	0.02 (RI)	0.03 (LO)	0.07 (WE)	0.20 (LO), W10.10 (ML), R10.07 (MM)	0.21 (MM)	0.50 (ML), R10.30 (ML)	0.51 (ML)	0.10 (MM)	[0.09, 0.12]	0.20 (ML)	[0.08, 0.31]			
tri	8x*	1000	5	0.25 (ML)	0.34 (MM)	0.14 (MM)	0.03 (ML)	0.04 (ML)	0.01 (MM)	0.09 (LO)	0.20 (ML)	0.03 (MM)	0.16 (MM)	0.40 (RI)	0.20 (RI)	0.30 (RI)	0.49 (ML)	0.15 (ML)	[0.09, 0.22]	0.19 (ML)	[0.07, 0.30]
tri	8x*	1000	10	0.28 (ML)	0.26 (MM)	0.15 (MM)	0.13 (MM)	0.05 (ML)	0.01 (MM)	0.06 (WE)	0.04 (MM)	0.10 (MM)	0.20 (ML), W10.10 (RI)	0.32 (MM)	0.32 (MM)	0.61 (ML)	0.20 (ML)	[0.14, 0.26]	0.27 (MM)	[0.24, 0.31]	
tri	8x*	1000	15	0.33 (MM)	0.30 (MM)	0.12 (MM)	0.13 (MM)	0.03 (ML)	0.01 (RI)	0.09 (WE)	0.03 (MM)	0.05 (MM)	0.14 (MM)	0.20 (ML)	0.50 (ML)	0.50 (WE)	0.57 (ML)	0.22 (MM)	[0.20, 0.24]	0.27 (MM)	[0.24, 0.31]
tri	8x*	1000	20	0.31 (MM)	0.31 (MM)	0.10 (ML)	0.13 (MM)	0.04 (MM)	0.01 (MM)	0.07 (WE)	0.10 (ML), W10.03 (MM)	0.30 (LO), W10.25 (MM)	0.17 (MM)	0.40 (ML), L10.65 (ML)	0.23 (MM)	[0.21, 0.25]	0.29 (MM)	[0.25, 0.32]			
t1:3	2x	5	2	0.00 (RI)	0.03 (ML)	0.05 (PD)	0.03 (MM)	0.02 (PD)	0.01 (MM)	0.05 (RI)	0.20 (ML), L10.24 (ML)	0.11 (PD)	0.20 (LO)	0.10 (ML), R10.21 (ML)	0.47 (ML)	0.13 (ML)	[0.11, 0.14]	0.18 (LO)	[0.12, 0.24]		
t1:3	2x	10	2	0.01 (ML)	0.00 (ML)	0.01 (MM)	0.01 (RI)	0.01 (MM)	0.00 (VR)	0.01 (WE)	0.37 (ML)	0.15 (ML)	0.30 (LO)	0.20 (LO)	0.17 (PD)	0.26 (ML)	0.50 (ML)	0.24 (ML)	[0.22, 0.26]	0.33 (LO)	[0.26, 0.40]
t1:3	2x	15	2	0.01 (ML)	0.00 (VR)	0.01 (WE)	0.00 (PD)	0.02 (PD)	0.00 (PD)	0.06 (RI)	0.39 (ML)	0.30 (RI)	0.17 (ML), P10.30 (LO)	0.20 (LO), P10.29 (ML)	0.52 (ML)	0.33 (ML)	[0.32, 0.35]	0.38 (ML)	[0.35, 0.40]		
t1:3	2x	20	2	0.00 (VR)	0.00 (MM)	0.00 (VR)	0.00 (RI)	0.01 (PD)	0.01 (MM)	0.03 (WE)	0.50 (RI)	0.28 (ML)	0.30 (WE)	0.20 (RI), L10.20 (LO)	0.40 (RI), L10.52 (ML)	0.41 (ML)	[0.39, 0.42]	0.48 (ML)	[0.45, 0.50]		
t1:3	2x	50	2	0.00 (PD)	0.00 (PD)	0.01 (MM)	0.02 (LO)	0.00 (MM)	0.01 (VR)	0.04 (WE)	0.59 (ML)	0.60 (LO)	0.40 (LO)	0.30 (WE)	0.30 (LO), W10.46 (ML)	0.58 (ML)	0.63 (ML)	[0.62, 0.64]	0.73 (ML)	[0.71, 0.74]	
t1:3	2x	100	2	0.00 (PD)	0.00 (ML)	0.00 (WE)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.80 (ML)	0.50 (RI)	0.80 (WE)	0.50 (RI)	0.50 (RI)	0.60 (LO)	0.63 (ML)	0.72 (ML)	[0.71, 0.73]	0.84 (ML)	[0.83, 0.85]
t1:3	2x	500	2	0.00 (MM)	0.00 (LO)	0.01 (VR)	0.00 (MM)	0.00 (VR)	0.00 (PD)	0.05 (RI)	0.99 (ML)	0.85 (ML)	0.90 (LO)	0.90 (RI)	0.90 (LO)	0.81 (ML)	0.79 (ML)	0.90 (RI)	[0.89, 0.91]	0.96 (ML)	[0.96, 0.96]
t1:3	2x	1000	2	0.00 (VR)	0.00 (ML)	0.00 (PD)	0.01 (ML)	0.00 (VR)	0.00 (VR)	0.06 (RI)	1.00 (LO)	0.91 (ML)	1.00 (LO)	0.88 (ML)	0.89 (VR)	0.90 (LO), W10.85 (ML)	0.94 (RI)	[0.93, 0.95]	0.97 (ML)	[0.97, 0.98]	
t1:3	4x	5	2	0.03 (WE)	0.01 (VR)	0.01 (MM)	0.01 (PD)	0.02 (PD)	0.03 (PD)	0.04 (MM)	0.14 (ML)	0.12 (ML)	0.20 (LO)	0.15 (VR)	0.11 (PD), F10.24 (ML)	0.45 (ML)	0.12 (VR)	[0.11, 0.13]	0.15 (VR)	[0.14, 0.17]	
t1:3	4x	10	2	0.01 (VR)	0.00 (VR)	0.01 (MM)	0.01 (PD)	0.00 (MM)	0.02 (LO)	0.03 (WE)	0.20 (LO)	0.18 (ML)	0.17 (PD)	0.30 (LO)	0.16 (PD)	0.23 (ML), F10.46 (ML)	0.19 (VR)	[0.18, 0.20]	0.25 (VR)	[0.23, 0.27]	
t1:3	4x	15	2	0.04 (VR)	0.01 (VR)	0.01 (VR)	0.03 (ML)	0.01 (VR)	0.00 (MM)	0.01 (WE)	0.13 (ML)	0.15 (ML), W10.22 (PD)	0.20 (PD)	0.21 (PD)	0.20 (ML), L10.48 (ML)	0.25 (VR)	[0.24, 0.26]	0.38 (VR)	[0.35, 0.40]		
t1:3	4x	20	2	0.04 (VR)	0.04 (VR)	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.03 (VR)	0.02 (WE)	0.22 (VR)	0.22 (VR)	0.22 (PD)	0.22 (PD)	0.23 (VR)	0.32 (PD)	0.49 (ML)	0.30 (VR)	[0.29, 0.32]	0.43 (VR)	[0.41, 0.45]
t1:3	4x	50	2	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (WE)	0.29 (VR)	0.25 (ML)	0.35 (PD)	0.38 (PD)	0.41 (PD)	0.45 (FA)	0.50 (FA)	0.48 (VR)	[0.46, 0.49]	0.64 (VR)	[0.62, 0.66]	
t1:3	4x	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.00 (VR)	0.00 (VR)	0.01 (WE)	0.41 (VR)	0.34 (VR)	0.44 (PD)	0.53 (PD)	0.47 (PD)	0.41 (FA)	0.65 (FA)	0.58 (VR)	[0.57, 0.59]	0.77 (VR)	[0.75, 0.78]
t1:3	4x	500	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.02 (WE)	0.71 (VR)	0.70 (VR)	0.77 (VR)	0.78 (VR)	0.73 (VR), P10.66 (VR)	0.88 (FA)	0.72 (VR)	[0.71, 0.73]	0.94 (VR)	[0.94, 0.95]	
t1:3	4x	1000	2	0.00 (VR)	0.03 (WE)	0.87 (ML)	0.87 (VR)	0.85 (VR)	0.80 (VR)	0.90 (VR)	0.88 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.97, 0.97]					
t1:3	6x	5	2	0.00 (LO)	0.01 (RI)	0.00 (VR)	0.03 (VR)	0.07 (VR)	0.00 (FA)	0.03 (MM)	0.16 (PD)	0.20 (LO)	0.14 (VR)	0.15 (VR)	0.13 (FA)	0.30 (FA)	0.43 (ML)	0.10 (VR)	[0.09, 0.11]	0.13 (FA)	[0.10, 0.16]
t1:3	6x	10	2	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.01 (ML)	0.01 (LO)	0.02 (WE)	0.02 (RI)	0.28 (PD)	0.30 (RI)	0.20 (LO)	0.17 (VR)	0.30 (LO)	0.23 (FA)	0.44 (ML)	0.18 (VR)	[0.17, 0.19]	0.28 (VR)	[0.26, 0.30]
t1:3	6x	15	2	0.00 (VR)	0.03 (VR)	0.00 (MM)	0.01 (ML)	0.00 (VR)	0.01 (VR)	0.05 (MM)	0.25 (PD)	0.50 (LO)	0.20 (RI), L10.19 (VR)	0.20 (FA)	0.30 (FA)	0.46 (ML)	0.28 (VR)	[0.26, 0.29]	0.41 (VR)	[0.38, 0.43]	
t1:3	6x	20	2	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.04 (MM)	0.35 (PD)	0.40 (RI), L10.26 (VR)	0.28 (VR)	0.34 (VR)	0.36 (FA)	0.62 (FA)	0.46 (VR)	[0.44, 0.47]	0.62 (VR)	[0.60, 0.65]	

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
t1:3	6x	100	2	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.03 (RI)	0.38 (VR)	0.38 (VR)	0.34 (VR)	0.36 (VR)	0.37 (VR)	0.48 (FA)	0.75 (FA)	0.57 (VR)	[0.56, 0.58]	0.78 (VR)	[0.77, 0.80]
t1:3	6x	500	2	0.00 (VR)	0.01 (VR)	0.04 (RI)	0.65 (VR)	0.71 (VR)	0.73 (VR)	0.70 (VR)	0.79 (VR)	0.75 (VR)	0.90 (FA)	0.70 (VR)	[0.69, 0.71]	0.94 (VR)	[0.94, 0.95]				
t1:3	6x	1000	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.88 (VR)	0.89 (VR)	0.88 (VR)	0.85 (VR)	0.83 (VR)	0.90 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.73]	0.97 (VR)	[0.97, 0.97]
t1:3	8x	5	2	0.00 (PD)	0.00 (VR)	0.05 (VR)	0.01 (LD)	0.00 (VR)	0.01 (LD)	0.03 (MM)	0.10 (ML)	0.11 (PD)	0.30 (LD)	0.20 (LD)	0.20 (FA)	0.24 (FA)	0.47 (MM)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]
t1:3	8x	10	2	0.00 (VR)	0.01 (PD)	0.02 (VR)	0.04 (VR)	0.04 (VR)	0.01 (WE)	0.03 (MM)	0.20 (PD)	0.20 (PD)	0.17 (VR)	0.17 (VR)	0.19 (FA)	0.29 (FA)	0.40 (FA)	0.18 (VR)	[0.16, 0.19]	0.26 (VR)	[0.24, 0.29]
t1:3	8x	15	2	0.01 (ML)	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.04 (MM)	0.20 (WE, P)	0.32 (PD)	0.10 (VR)	0.14 (VR)	0.15 (FA)	0.37 (FA)	0.46 (FA)	0.23 (VR)	[0.22, 0.25]	0.35 (VR)	[0.33, 0.37]
t1:3	8x	20	2	0.00 (PD)	0.02 (VR)	0.02 (RI)	0.01 (WE)	0.01 (VR)	0.00 (VR)	0.04 (MM)	0.34 (PD)	0.34 (PD)	0.14 (VR)	0.20 (VR)	0.30 (LO)	0.37 (FA)	0.51 (FA)	0.29 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]
t1:3	8x	50	2	0.02 (PD)	0.00 (PD)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (LD)	0.05 (MM)	0.45 (PD)	0.58 (PD)	0.30 (LO)	0.32 (VR)	0.25 (VR)	0.34 (VR, F)	0.70 (FA)	0.44 (VR)	[0.43, 0.46]	0.64 (VR)	[0.62, 0.66]
t1:3	8x	100	2	0.01 (PD)	0.00 (PD)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.02 (RI)	0.70 (PD)	0.75 (PD)	0.39 (VR)	0.37 (VR)	0.25 (VR)	0.39 (VR)	0.82 (FA)	0.56 (VR)	[0.55, 0.57]	0.78 (VR)	[0.76, 0.79]
t1:3	8x	500	2	0.00 (PD)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.04 (RI)	1.00 (PD)	0.92 (PD)	0.76 (VR)	0.69 (VR)	0.76 (VR)	0.79 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.71]	0.95 (VR)	[0.94, 0.95]
t1:3	8x	1000	2	0.00 (PD)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.02 (RI)	1.00 (PD)	0.95 (PD)	0.86 (VR)	0.83 (VR)	0.93 (VR)	0.89 (VR)	0.90 (FA)	0.72 (VR)	[0.72, 0.73]	0.97 (VR)	[0.97, 0.97]
t1:3	4x*	5	2	0.02 (ML)	0.02 (VR)	0.02 (VR)	0.01 (PD)	0.00 (VR)	0.01 (PD)	0.01 (WE)	0.10 (VR)	0.18 (PD)	0.15 (ML)	0.30 (LO)	0.30 (LO)	0.20 (LO)	0.42 (ML)	0.11 (VR)	[0.10, 0.12]	0.16 (FA)	[0.13, 0.19]
t1:3	4x*	10	2	0.00 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (PD)	0.06 (MM)	0.14 (ML)	0.21 (ML)	0.13 (ML, F)	0.40 (LO)	0.20 (FA)	0.29 (FA)	0.45 (ML)	0.20 (VR)	[0.18, 0.21]	0.23 (VR)	[0.21, 0.26]
t1:3	4x*	15	2	0.02 (VR)	0.01 (VR)	0.04 (VR)	0.01 (LO)	0.06 (PD)	0.01 (MM)	0.08 (MM)	0.19 (VR)	0.16 (VR)	0.30 (LO)	0.15 (PD)	0.25 (FA)	0.31 (FA)	0.47 (ML)	0.26 (VR)	[0.25, 0.27]	0.39 (VR)	[0.37, 0.42]
t1:3	4x*	20	2	0.01 (VR)	0.01 (VR)	0.04 (VR)	0.02 (ML)	0.01 (VR)	0.00 (MM)	0.07 (MM)	0.40 (LO)	0.20 (PD)	0.30 (LO)	0.30 (LO)	0.28 (PD)	0.24 (FA)	0.48 (ML)	0.29 (VR)	[0.27, 0.30]	0.41 (VR)	[0.39, 0.43]
t1:3	4x*	50	2	0.01 (VR)	0.00 (MM)	0.08 (MM)	0.20 (VR)	0.25 (VR)	0.29 (VR)	0.27 (PD)	0.48 (PD)	0.39 (FA)	0.50 (FA)	0.47 (VR)	[0.46, 0.49]	0.64 (VR)	[0.62, 0.66]				
t1:3	4x*	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.08 (MM)	0.41 (VR)	0.31 (ML)	0.44 (PD)	0.41 (PD)	0.49 (PD)	0.51 (PD)	0.65 (FA)	0.57 (VR)	[0.56, 0.58]	0.79 (VR)	[0.77, 0.80]
t1:3	4x*	500	2	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.09 (MM)	0.69 (VR)	0.72 (VR)	0.74 (VR)	0.73 (VR)	0.71 (PD)	0.62 (VR)	0.88 (FA)	0.71 (VR)	[0.71, 0.72]	0.95 (VR)	[0.94, 0.95]
t1:3	4x*	1000	2	0.00 (VR)	0.09 (MM)	0.74 (VR)	0.84 (VR)	0.87 (VR)	0.86 (VR)	0.86 (PD)	0.81 (VR)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]					
t1:3	6x*	5	2	0.06 (ML)	0.01 (VR)	0.03 (VR)	0.06 (ML)	0.04 (VR)	0.00 (MM)	0.01 (WE)	0.14 (PD)	0.20 (LO)	0.10 (FA)	0.13 (FA)	0.16 (PD)	0.26 (FA)	0.43 (ML)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.14, 0.17]
t1:3	6x*	10	2	0.04 (VR)	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.00 (LO)	0.02 (RI)	0.03 (RI)	0.17 (ML, F)	0.27 (PD)	0.30 (LO)	0.13 (VR, F)	0.21 (FA)	0.35 (FA)	0.46 (ML)	0.18 (VR)	[0.17, 0.19]	0.27 (VR)	[0.24, 0.29]
t1:3	6x*	15	2	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.03 (ML)	0.01 (VR)	0.00 (MM)	0.03 (RI)	0.21 (PD)	0.22 (PD)	0.22 (PD)	0.19 (PD)	0.40 (RI)	0.36 (FA)	0.46 (ML)	0.24 (VR)	[0.22, 0.25]	0.33 (VR)	[0.30, 0.35]
t1:3	6x*	20	2	0.01 (WE)	0.04 (VR)	0.01 (VR)	0.00 (ML)	0.04 (VR)	0.03 (LO)	0.03 (WE)	0.30 (LO)	0.24 (PD)	0.20 (RI, L)	0.26 (PD)	0.17 (VR)	0.34 (FA)	0.46 (ML)	0.29 (VR)	[0.27, 0.30]	0.41 (VR)	[0.39, 0.44]
t1:3	6x*	50	2	0.01 (VR)	0.01 (VR)	0.03 (VR)	0.01 (ML)	0.01 (VR)	0.01 (VR)	0.04 (RI)	0.27 (VR)	0.25 (VR, F)	0.28 (VR)	0.24 (VR)	0.23 (VR)	0.38 (FA)	0.61 (FA)	0.47 (VR)	[0.45, 0.48]	0.63 (VR)	[0.61, 0.65]
t1:3	6x*	100	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.04 (RI)	0.34 (VR)	0.34 (VR)	0.36 (VR)	0.39 (VR)	0.37 (VR)	0.45 (VR)	0.76 (FA)	0.56 (VR)	[0.55, 0.57]	0.75 (VR)	[0.74, 0.77]
t1:3	6x*	500	2	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.70 (VR)	0.66 (VR)	0.68 (VR)	0.76 (VR)	0.69 (VR)	0.79 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]
t1:3	6x*	1000	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.82 (VR)	0.86 (VR)	0.96 (VR)	0.87 (VR)	0.93 (VR)	0.83 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.96, 0.97]
t1:3	8x*	5	2	0.01 (PD)	0.02 (PD)	0.03 (ML)	0.01 (ML)	0.01 (VR)	0.07 (FA)	0.04 (MM)	0.11 (PD)	0.14 (PD)	0.30 (ML)	0.14 (VR)	0.20 (FA)	0.23 (FA)	0.45 (MM)	0.12 (VR)	[0.11, 0.13]	0.13 (VR)	[0.11, 0.15]
t1:3	8x*	10	2	0.00 (PD)	0.00 (PD)	0.01 (VR)	0.01 (ML)	0.01 (ML)	0.02 (VR)	0.04 (MM)	0.22 (PD)	0.29 (PD)	0.21 (VR)	0.12 (VR)	0.17 (VR, F)	0.30 (FA)	0.41 (FA)	0.18 (VR)	[0.17, 0.19]	0.26 (VR)	[0.24, 0.29]
t1:3	8x*	15	2	0.01 (VR)	0.01 (PD)	0.02 (LO)	0.00 (VR)	0.04 (VR)	0.05 (MM)	0.26 (PD)	0.25 (PD)	0.10 (VR, F)	0.15 (VR)	0.18 (VR)	0.32 (FA)	0.47 (FA)	0.24 (VR)	[0.23, 0.26]	0.34 (VR)	[0.31, 0.36]	
t1:3	8x*	20	2	0.01 (ML)	0.01 (PD)	0.01 (WE)	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.05 (MM)	0.41 (PD)	0.33 (PD)	0.16 (VR)	0.14 (VR)	0.18 (VR)	0.31 (FA)	0.51 (FA)	0.28 (VR)	[0.27, 0.29]	0.43 (VR)	[0.41, 0.45]
t1:3	8x*	50	2	0.00 (PD)	0.01 (PD)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.02 (VR)	0.05 (MM)	0.54 (PD)	0.48 (PD)	0.17 (VR)	0.36 (VR)	0.32 (VR)	0.38 (FA)	0.71 (FA)	0.45 (VR)	[0.43, 0.46]	0.64 (VR)	[0.62, 0.66]
t1:3	8x*	100	2	0.00 (VR)	0.01 (PD)	0.01 (WE)	0.02 (VR)	0.00 (VR)	0.02 (VR)	0.01 (RI)	0.67 (PD)	0.60 (PD)	0.34 (VR)	0.38 (VR)	0.34 (VR)	0.40 (VR)	0.82 (FA)	0.59 (VR)	[0.58, 0.60]	0.77 (VR)	[0.76, 0.78]
t1:3	8x*	500	2	0.00 (VR)	0.00 (PD)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.02 (RI)	0.91 (PD)	0.90 (PD)	0.69 (VR)	0.66 (VR)	0.70 (VR)	0.69 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.72]	0.94 (VR)	[0.94, 0.95]	
t1:3	8x*	1000	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.00 (RI)	0.02 (RI)	1.00 (PD)	0.94 (PD)	0.78 (VR)	0.87 (VR)	0.90 (VR)	0.86 (VR)	0.90 (FA)	0.73 (VR)	[0.73, 0.74]	0.97 (VR)	[0.97, 0.97]

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
t1:4	2x	5	2	0.02 (ML)	0.01 (ML)	0.01 (LO)	0.00 (WE)	0.03 (MM)	0.00 (MM)	0.07 (RI)	0.50 (RI)	0.40 (RI)	0.10 (RI,LO)	0.10 (LO,WE)	0.20 (LO)	0.24 (ML)	0.49 (ML)	0.12 (ML)	[0.11, 0.14]	0.17 (ML)	[0.14, 0.19]
t1:4	2x	10	2	0.00 (WE)	0.02 (ML)	0.04 (MM)	0.00 (WE)	0.01 (PD)	0.01 (VR)	0.04 (RI)	0.27 (ML)	0.30 (RI)	0.14 (VR)	0.14 (PD)	0.30 (WE)	0.28 (ML)	0.53 (ML)	0.25 (ML)	[0.24, 0.27]	0.32 (ML)	[0.29, 0.35]
t1:4	2x	15	2	0.00 (VR)	0.01 (PD)	0.03 (ML)	0.01 (ML)	0.03 (WE)	0.00 (RI)	0.07 (WE)	0.39 (ML)	0.30 (RI,LO)	0.21 (VR)	0.20 (LO,WE)	0.20 (RI,PD)	0.32 (ML)	0.52 (ML)	0.32 (ML)	[0.30, 0.33]	0.41 (ML)	[0.38, 0.43]
t1:4	2x	20	2	0.00 (ML)	0.00 (ML)	0.01 (WE)	0.00 (RI)	0.01 (VR)	0.00 (VR)	0.05 (WE)	0.48 (ML)	0.23 (ML)	0.20 (LO)	0.17 (PD)	0.26 (VR)	0.41 (ML)	0.54 (ML)	0.39 (ML)	[0.38, 0.41]	0.47 (ML)	[0.45, 0.50]
t1:4	2x	50	2	0.01 (WE)	0.00 (LO)	0.00 (ML)	0.00 (PD)	0.00 (LO)	0.01 (PD)	0.04 (WE)	0.60 (ML)	0.30 (RI)	0.31 (MM)	0.33 (PD)	0.30 (RI)	0.50 (LO)	0.59 (ML)	0.63 (ML)	[0.62, 0.64]	0.72 (ML)	[0.70, 0.74]
t1:4	2x	100	2	0.00 (MM)	0.01 (MM)	0.00 (MM)	0.00 (VR)	0.01 (MM)	0.00 (PD)	0.04 (WE)	0.73 (ML)	0.49 (ML)	0.50 (LO)	0.36 (ML)	0.50 (LO)	0.46 (ML)	0.62 (ML)	0.72 (ML)	[0.71, 0.73]	0.86 (ML)	[0.85, 0.87]
t1:4	2x	500	2	0.00 (RI)	0.00 (ML)	0.00 (VR)	0.00 (ML)	0.00 (ML)	0.00 (PD)	0.06 (WE)	0.95 (ML)	0.78 (ML)	0.80 (LO)	0.76 (ML)	0.80 (LO)	0.90 (LO)	0.79 (ML)	0.90 (RI)	[0.88, 0.91]	0.96 (ML)	[0.95, 0.96]
t1:4	2x	1000	2	0.00 (MM)	0.00 (ML)	0.00 (LO)	0.00 (PD)	0.00 (VR)	0.06 (RI)	0.99 (ML)	0.94 (ML)	0.90 (LO)	0.93 (ML)	0.90 (LO)	0.91 (ML)	0.85 (ML)	0.95 (RI)	[0.94, 0.96]	0.97 (ML)	[0.97, 0.98]	
t1:4	4x	5	2	0.01 (PD)	0.02 (LO)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.07 (WE)	0.20 (LO)	0.13 (PD)	0.20 (LO)	0.12 (VR,PD)	0.14 (FA)	0.16 (FA)	0.44 (ML)	0.12 (FA)	[0.10, 0.13]	0.20 (FA)	[0.17, 0.23]
t1:4	4x	10	2	0.04 (LO)	0.00 (VR)	0.01 (PD)	0.00 (PD)	0.04 (VR)	0.04 (MM)	0.07 (WE)	0.18 (PD)	0.20 (VR)	0.15 (ML)	0.12 (ML)	0.19 (VR,PD)	0.25 (FA)	0.45 (ML)	0.17 (VR)	[0.16, 0.19]	0.27 (VR)	[0.25, 0.29]
t1:4	4x	15	2	0.01 (VR)	0.02 (VR)	0.00 (VR)	0.00 (PD)	0.05 (VR)	0.03 (VR)	0.04 (WE)	0.21 (PD)	0.17 (VR)	0.17 (PD)	0.18 (PD)	0.22 (FA)	0.25 (FA)	0.46 (ML)	0.25 (VR)	[0.23, 0.26]	0.34 (VR)	[0.32, 0.37]
t1:4	4x	20	2	0.00 (VR)	0.02 (LO)	0.01 (PD)	0.00 (PD)	0.02 (VR)	0.01 (LO)	0.06 (WE)	0.21 (PD)	0.20 (ML,LO)	0.21 (VR)	0.17 (PD)	0.18 (VR)	0.29 (FA)	0.46 (ML)	0.28 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]
t1:4	4x	50	2	0.01 (VR)	0.01 (LO)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.02 (VR)	0.09 (VR)	0.50 (LO)	0.26 (ML)	0.34 (VR)	0.26 (PD)	0.31 (VR)	0.40 (FA)	0.52 (FA)	0.47 (VR)	[0.46, 0.48]	0.63 (VR)	[0.61, 0.65]
t1:4	4x	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.10 (VR)	0.43 (VR)	0.36 (PD)	0.35 (PD)	0.44 (PD)	0.38 (VR)	0.38 (FA)	0.66 (FA)	0.58 (VR)	[0.56, 0.59]	0.76 (VR)	[0.75, 0.78]
t1:4	4x	500	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (MM)	0.10 (VR)	0.69 (VR)	0.67 (VR)	0.74 (VR)	0.68 (VR)	0.71 (VR)	0.76 (VR)	0.88 (FA)	0.74 (PD)	[0.74, 0.75]	0.94 (VR)	[0.94, 0.95]
t1:4	4x	1000	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.09 (WE)	0.83 (VR)	0.84 (VR)	0.84 (VR)	0.86 (VR)	0.87 (VR)	0.90 (FA)	0.77 (PD)	[0.76, 0.77]	0.97 (VR)	[0.97, 0.97]	
t1:4	6x	5	2	0.04 (VR)	0.04 (VR)	0.05 (VR)	0.02 (VR)	0.01 (VR)	0.03 (VR)	0.04 (WE)	0.13 (PD)	0.10 (LO,WE)	0.12 (FA)	0.14 (FA)	0.30 (LO)	0.27 (FA)	0.42 (ML)	0.11 (FA)	[0.09, 0.12]	0.15 (VR)	[0.13, 0.17]
t1:4	6x	10	2	0.03 (VR)	0.03 (VR)	0.01 (VR)	0.01 (LO)	0.00 (LO)	0.04 (VR)	0.00 (WE)	0.12 (PD)	0.20 (LO)	0.15 (VR)	0.20 (LO)	0.28 (FA)	0.30 (LO)	0.45 (ML)	0.18 (VR)	[0.17, 0.20]	0.24 (VR)	[0.22, 0.27]
t1:4	6x	15	2	0.02 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.06 (MM)	0.16 (VR)	0.18 (PD)	0.30 (LO)	0.11 (PD)	0.30 (LO)	0.32 (FA)	0.47 (ML)	0.24 (VR)	[0.23, 0.26]	0.33 (VR)	[0.31, 0.36]
t1:4	6x	20	2	0.06 (VR)	0.01 (VR)	0.02 (LO)	0.01 (VR)	0.02 (VR)	0.03 (LO)	0.03 (WE)	0.19 (VR)	0.20 (LO)	0.23 (VR)	0.20 (LO)	0.24 (FA)	0.33 (FA)	0.46 (ML)	0.28 (VR)	[0.27, 0.30]	0.40 (VR)	[0.37, 0.42]
t1:4	6x	50	2	0.01 (VR)	0.03 (RI)	0.00 (WE)	0.00 (LO)	0.01 (LO)	0.01 (VR)	0.06 (RI)	0.27 (VR)	0.22 (PD)	0.27 (VR)	0.30 (VR)	0.30 (VR)	0.31 (FA)	0.62 (FA)	0.46 (VR)	[0.45, 0.47]	0.64 (VR)	[0.62, 0.66]
t1:4	6x	100	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.04 (WE)	0.33 (VR)	0.31 (VR)	0.41 (VR)	0.35 (VR)	0.39 (VR)	0.40 (FA)	0.77 (FA)	0.58 (VR)	[0.57, 0.59]	0.78 (VR)	[0.76, 0.79]
t1:4	6x	500	2	0.00 (VR)	0.00 (VR)	0.00 (RI)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.02 (RI)	0.68 (VR)	0.61 (VR)	0.79 (VR)	0.77 (VR)	0.86 (VR)	0.79 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.94]
t1:4	6x	1000	2	0.01 (VR)	0.00 (VR)	0.03 (RI)	0.83 (VR)	0.81 (VR)	0.84 (VR)	0.81 (VR)	0.87 (VR)	0.86 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.96, 0.97]				
t1:4	8x	5	2	0.03 (VR)	0.01 (VR)	0.08 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.04 (MM)	0.20 (LO)	0.13 (VR)	0.20 (RI)	0.20 (LO)	0.20 (FA)	0.27 (FA)	0.35 (ML)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]
t1:4	8x	10	2	0.03 (ML)	0.01 (VR)	0.03 (VR)	0.05 (VR)	0.00 (RI)	0.03 (VR)	0.03 (RI)	0.07 (PD)	0.20 (LO)	0.20 (RI)	0.12 (VR)	0.15 (FA)	0.36 (FA)	0.38 (FA)	0.17 (VR)	[0.16, 0.19]	0.28 (VR)	[0.26, 0.30]
t1:4	8x	15	2	0.03 (VR)	0.00 (ML)	0.03 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.03 (RI)	0.20 (ML)	0.20 (RI)	0.17 (VR)	0.20 (LO)	0.31 (FA)	0.47 (FA)	0.23 (VR)	[0.22, 0.25]	0.36 (VR)	[0.33, 0.38]	
t1:4	8x	20	2	0.01 (ML)	0.01 (VR)	0.02 (VR)	0.01 (RI)	0.03 (VR)	0.01 (RI)	0.03 (RI)	0.21 (VR)	0.20 (VR)	0.18 (VR)	0.20 (LO)	0.19 (VR)	0.22 (FA)	0.52 (FA)	0.27 (VR)	[0.26, 0.29]	0.41 (VR)	[0.39, 0.43]
t1:4	8x	50	2	0.02 (VR)	0.00 (VR)	0.03 (VR)	0.02 (VR)	0.01 (VR)	0.01 (LO)	0.02 (RI)	0.25 (VR)	0.29 (VR)	0.27 (VR)	0.24 (VR)	0.29 (VR)	0.32 (FA)	0.72 (FA)	0.45 (VR)	[0.44, 0.47]	0.65 (VR)	[0.63, 0.67]
t1:4	8x	100	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (RI)	0.40 (LO)	0.31 (VR)	0.38 (VR)	0.37 (VR)	0.33 (VR)	0.35 (FA)	0.83 (FA)	0.57 (VR)	[0.56, 0.58]	0.77 (VR)	[0.76, 0.79]
t1:4	8x	500	2	0.00 (VR)	0.02 (RI)	0.69 (VR)	0.67 (VR)	0.60 (VR)	0.74 (VR)	0.67 (VR)	0.78 (VR)	0.90 (FA)	0.70 (VR)	[0.69, 0.71]	0.94 (VR)	[0.94, 0.95]					
t1:4	8x	1000	2	0.00 (VR)	0.02 (RI)	0.87 (VR)	0.84 (VR)	0.94 (VR)	0.89 (VR)	0.90 (VR)	0.86 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.73]	0.97 (VR)	[0.97, 0.97]					
t1:4	4x*	5	2	0.01 (VR)	0.04 (VR)	0.00 (MM)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.07 (MM)	0.20 (LO)	0.12 (PD)	0.10 (ML,VI)	0.16 (ML)	0.20 (LO)	0.16 (FA)	0.45 (ML)	0.09 (FA)	[0.08, 0.11]	0.18 (FA)	[0.15, 0.21]
t1:4	4x*	10	2	0.01 (LO)	0.07 (VR)	0.01 (PD)	0.00 (PD)	0.02 (VR)	0.00 (VR)	0.05 (MM)	0.18 (ML)	0.20 (LO)	0.15 (PD)	0.15 (ML)	0.18 (FA)	0.32 (FA)	0.47 (ML)	0.18 (VR)	[0.17, 0.19]	0.26 (VR)	[0.23, 0.28]
t1:4	4x*	15	2	0.02 (RI)	0.09 (PD)	0.01 (MM)	0.00 (PD)	0.00 (RI)	0.01 (VR)	0.04 (MM)	0.25 (ML)	0.19 (PD)	0.20 (LO,VI)	0.30 (LO)	0.23 (FA)	0.33 (FA)	0.49 (ML)	0.23 (VR)	[0.22, 0.24]	0.33 (VR)	[0.31, 0.36]

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				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC	
t1:4	4x*	20	2	0.01 (VR)	0.02 (PD)	0.01 (MM)	0.00 (PD)	0.03 (LO)	0.00 (MM)	0.06 (MM)	0.18 (PD)	0.18 (PD)	0.30 (LO)	0.19 (PD)	0.29 (FA)	0.31 (FA)	0.49 (ML)	0.30 (VR)	[0.28, 0.31]	0.43 (VR)	[0.40, 0.45]	
t1:4	4x*	50	2	0.01 (VR)	0.01 (VR)	0.01 (MM)	0.01 (ML)	0.02 (VR)	0.01 (VR)	0.07 (MM)	0.26 (VR)	0.30 (ML)	0.40 (PD)	0.60 (LO)	0.30 (PD)	0.37 (FA)	0.52 (FA)	0.45 (VR)	[0.43, 0.46]	0.62 (VR)	[0.60, 0.65]	
t1:4	4x*	100	2	0.01 (VR)	0.00 (WE)	0.00 (PD)	0.00 (VR)	0.01 (VR)	0.01 (MM)	0.07 (MM)	0.31 (VR)	0.43 (PD)	0.42 (PD)	0.39 (PD)	0.37 (VR)	0.38 (VR)	0.65 (FA)	0.56 (VR)	[0.55, 0.57]	0.77 (VR)	[0.76, 0.79]	
t1:4	4x*	500	2	0.00 (VR)	0.00 (WE)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.08 (MM)	0.60 (VR)	0.59 (VR)	0.77 (PD)	0.66 (VR)	0.63 (VR)	0.69 (VR)	0.88 (FA)	0.73 (PD)	[0.72, 0.73]	0.94 (VR)	[0.94, 0.95]	
t1:4	4x*	1000	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.06 (RI)	0.85 (VR)	0.80 (VR)	0.93 (PD)	0.87 (PD)	0.84 (VR)	0.85 (VR)	0.90 (FA)	0.74 (PD)	[0.73, 0.75]	0.97 (VR)	[0.96, 0.97]	
t1:4	6x*	5	2	0.01 (VR)	0.02 (WE)	0.01 (VR)	0.03 (VR)	0.01 (VR)	0.02 (VR)	0.07 (LO)	0.19 (ML)	0.18 (PD)	0.15 (VR)	0.11 (VR)	0.19 (FA)	0.28 (FA)	0.42 (ML)	0.11 (FA)	[0.10, 0.13]	0.17 (VR)	[0.15, 0.19]	
t1:4	6x*	10	2	0.04 (PD)	0.04 (VR)	0.03 (VR)	0.00 (VR)	0.00 (LO)	0.06 (VR)	0.05 (RI)	0.20 (LO)	0.14 (ML)	0.12 (VR)	0.20 (LO)	0.23 (FA)	0.28 (FA)	0.45 (ML)	0.18 (VR)	[0.17, 0.19]	0.25 (VR)	[0.23, 0.27]	
t1:4	6x*	15	2	0.04 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.03 (VR)	0.04 (FA)	0.07 (MM)	0.17 (PD)	0.13 (VR)	0.17 (VR)	0.20 (LO)	0.16 (FA)	0.38 (FA)	0.45 (ML)	0.24 (VR)	[0.23, 0.26]	0.32 (VR)	[0.29, 0.34]	
t1:4	6x*	20	2	0.01 (VR)	0.04 (VR)	0.02 (LO)	0.03 (ML)	0.02 (VR)	0.03 (VR)	0.07 (MM)	0.30 (LO)	0.19 (PD)	0.22 (VR)	0.17 (VR)	0.18 (FA)	0.34 (FA)	0.46 (ML)	0.29 (VR)	[0.27, 0.30]	0.42 (VR)	[0.39, 0.44]	
t1:4	6x*	50	2	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.02 (VR)	0.03 (RI)	0.27 (PD)	0.32 (PD)	0.26 (VR)	0.30 (LO)	0.21 (VR)	0.40 (FA)	0.63 (FA)	0.46 (VR)	[0.45, 0.48]	0.65 (VR)	[0.63, 0.67]	
t1:4	6x*	100	2	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.00 (VR)	0.07 (MM)	0.42 (VR)	0.40 (LO)	0.31 (VR)	0.34 (VR)	0.49 (VR)	0.76 (FA)	0.57 (VR)	[0.56, 0.58]	0.77 (VR)	[0.75, 0.78]		
t1:4	6x*	500	2	0.00 (VR)	0.00 (VR)	0.01 (LO)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.07 (MM)	0.75 (VR)	0.64 (VR)	0.71 (VR)	0.80 (VR)	0.73 (VR)	0.74 (VR)	0.90 (FA)	0.71 (VR)	[0.70, 0.72]	0.94 (VR)	[0.94, 0.95]	
t1:4	6x*	1000	2	0.00 (VR)	0.07 (MM)	0.83 (VR)	0.83 (VR)	0.89 (VR)	0.85 (VR)	0.87 (VR)	0.89 (VR)	0.90 (FA)	0.73 (VR)	[0.72, 0.74]	0.97 (VR)	[0.96, 0.97]						
t1:4	8x*	5	2	0.01 (ML)	0.08 (RI)	0.08 (VR)	0.07 (VR)	0.02 (VR)	0.01 (VR)	0.03 (RI)	0.20 (ML)	0.10 (WE)	0.10 (WE)	0.12 (PD)	0.20 (FA)	0.20 (RI)	0.33 (MM)	0.10 (VR)	[0.09, 0.11]	0.15 (VR)	[0.13, 0.17]	
t1:4	8x*	10	2	0.04 (ML)	0.04 (VR)	0.03 (VR)	0.02 (VR)	0.02 (VR)	0.04 (VR)	0.02 (RI)	0.20 (LO)	0.10 (PD)	0.10 (LO)	0.10 (WE)	0.10 (LO)	0.34 (FA)	0.40 (FA)	0.19 (VR)	[0.18, 0.20]	0.26 (VR)	[0.23, 0.28]	
t1:4	8x*	15	2	0.05 (ML)	0.02 (ML)	0.00 (VR)	0.04 (VR)	0.03 (RI)	0.00 (VR)	0.05 (MM)	0.20 (RI)	0.10 (LO)	0.15 (VR)	0.11 (VR)	0.21 (FA)	0.27 (FA)	0.46 (FA)	0.24 (VR)	[0.22, 0.25]	0.35 (VR)	[0.32, 0.37]	
t1:4	8x*	20	2	0.02 (VR)	0.03 (ML)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.02 (VR)	0.01 (RI)	0.16 (VR)	0.23 (VR)	0.20 (LO)	0.19 (VR)	0.23 (VR)	0.34 (FA)	0.52 (FA)	0.29 (VR)	[0.27, 0.30]	0.41 (VR)	[0.38, 0.43]	
t1:4	8x*	50	2	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.06 (MM)	0.30 (LO)	0.40 (ML)	0.30 (VR)	0.27 (VR)	0.26 (VR)	0.40 (FA)	0.73 (FA)	0.47 (VR)	[0.46, 0.49]	0.63 (VR)	[0.61, 0.65]	
t1:4	8x*	100	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.06 (MM)	0.31 (VR)	0.35 (VR)	0.38 (VR)	0.36 (VR)	0.39 (VR)	0.38 (VR)	0.83 (FA)	0.56 (VR)	[0.55, 0.57]	0.78 (VR)	[0.77, 0.79]	
t1:4	8x*	500	2	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.05 (MM)	0.76 (VR)	0.62 (VR)	0.75 (VR)	0.72 (VR)	0.63 (VR)	0.69 (VR)	0.90 (FA)	0.72 (VR)	[0.71, 0.72]	0.94 (VR)	[0.94, 0.95]	
t1:4	8x*	1000	2	0.00 (ML)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.06 (MM)	0.77 (VR)	0.81 (VR)	0.85 (VR)	0.81 (VR)	0.88 (VR)	0.89 (VR)	0.90 (FA)	0.74 (VR)	[0.73, 0.74]	0.97 (VR)	[0.96, 0.97]	
t1:9	2x	5	2	0.00 (MM)	0.04 (RI)	0.06 (WE)	0.04 (MM)	0.04 (PD)	0.02 (VR)	0.01 (RI)	0.17 (ML)	0.11 (ML)	0.10 (LO)	0.20 (LO)	0.10 (RI)	0.30 (ML)	0.53 (ML)	0.10 (LO)	[0.07, 0.13]	0.13 (LO)	[0.07, 0.20]	
t1:9	2x	10	2	0.05 (PD)	0.00 (ML)	0.01 (LO)	0.01 (VR)	0.02 (PD)	0.00 (VR)	0.03 (WE)	0.27 (ML)	0.20 (LO)	0.11 (VR)	0.20 (RI)	0.10 (LO)	0.30 (ML)	0.56 (ML)	0.17 (PD)	[0.16, 0.18]	0.23 (VR)	[0.21, 0.25]	
t1:9	2x	15	2	0.01 (VR)	0.03 (VR)	0.00 (VR)	0.02 (ML)	0.00 (PD)	0.00 (PD)	0.09 (PD)	0.27 (ML)	0.20 (RI)	0.30 (LO)	0.10 (RI)	0.16 (VR)	0.32 (ML)	0.56 (ML)	0.26 (ML)	[0.25, 0.28]	0.37 (ML)	[0.34, 0.39]	
t1:9	2x	20	2	0.02 (MM)	0.01 (PD)	0.01 (MM)	0.01 (RI)	0.01 (VR)	0.00 (VR)	0.06 (RI)	0.35 (ML)	0.20 (LO)	0.16 (MM)	0.20 (LO)	0.30 (LO)	0.27 (ML)	0.58 (ML)	0.30 (ML)	[0.29, 0.32]	0.40 (ML)	[0.37, 0.43]	
t1:9	2x	50	2	0.02 (ML)	0.00 (LO)	0.01 (ML)	0.00 (ML)	0.00 (LO)	0.00 (MM)	0.02 (WE)	0.27 (ML)	0.25 (ML)	0.30 (RI)	0.30 (LO)	0.30 (LO)	0.37 (ML)	0.60 (ML)	0.57 (ML)	[0.56, 0.59]	0.66 (ML)	[0.64, 0.68]	
t1:9	2x	100	2	0.00 (ML)	0.00 (MM)	0.01 (VR)	0.00 (VR)	0.00 (LO)	0.00 (MM)	0.03 (RI)	0.60 (LO)	0.40 (ML)	0.40 (RI)	0.36 (ML)	0.70 (LO)	0.47 (ML)	0.65 (ML)	0.70 (ML)	[0.69, 0.71]	0.82 (ML)	[0.81, 0.83]	
t1:9	2x	500	2	0.00 (MM)	0.00 (MM)	0.00 (PD)	0.00 (WE)	0.00 (VR)	0.00 (ML)	0.03 (RI)	0.87 (ML)	0.70 (LO)	0.80 (LO)	0.65 (ML)	0.68 (ML)	0.75 (ML)	0.80 (ML)	0.86 (RI)	[0.84, 0.87]	0.95 (ML)	[0.94, 0.95]	
t1:9	2x	1000	2	0.00 (MM)	0.00 (ML)	0.00 (VR)	0.00 (ML)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.96 (ML)	0.87 (ML)	0.85 (ML)	0.87 (ML)	0.87 (VR)	0.91 (ML)	0.86 (ML)	0.92 (RI)	[0.91, 0.93]	0.97 (ML)	[0.97, 0.97]	
t1:9	4x	5	2	0.01 (ML)	0.00 (VR)	0.03 (MM)	0.02 (VR)	0.02 (MM)	0.02 (MM)	0.06 (LO)	0.20 (LO)	0.10 (ML)	0.10 (LO)	0.10 (ML)	0.16 (FA)	0.40 (RI)	0.22 (FA)	0.47 (ML)	0.11 (FA)	[0.09, 0.12]	0.19 (FA)	[0.16, 0.22]
t1:9	4x	10	2	0.01 (RI)	0.00 (VR)	0.02 (RI)	0.00 (RI)	0.03 (MM)	0.02 (VR)	0.01 (WE)	0.13 (ML)	0.14 (ML)	0.30 (LO)	0.20 (LO)	0.21 (FA)	0.28 (FA)	0.47 (ML)	0.18 (FA)	[0.17, 0.20]	0.29 (FA)	[0.26, 0.32]	
t1:9	4x	15	2	0.01 (RI)	0.05 (VR)	0.02 (RI)	0.04 (ML)	0.03 (LO)	0.03 (VR)	0.02 (RI)	0.16 (ML)	0.13 (ML)	0.20 (LO)	0.20 (LO)	0.19 (VR)	0.33 (FA)	0.48 (ML)	0.21 (VR)	[0.20, 0.22]	0.34 (VR)	[0.31, 0.36]	
t1:9	4x	20	2	0.01 (VR)	0.03 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.07 (RI)	0.40 (RI)	0.26 (ML)	0.26 (VR)	0.21 (VR)	0.27 (VR)	0.39 (FA)	0.52 (FA)	0.43 (VR)	[0.42, 0.44]	0.59 (VR)	[0.56, 0.61]	
t1:9	4x	50	2	0.01 (ML)	0.01 (VR)	0.02 (MM)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.07 (RI)	0.42 (VR)	0.32 (MM)	0.30 (LO)	0.40 (LO)	0.45 (FA)	0.66 (FA)	0.56 (PD)	[0.55, 0.58]	0.75 (VR)	[0.73, 0.77]		

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
t1:9	4x	500	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (LO)	0.00 (VR)	0.02 (WE)	0.60 (RI)	0.70 (RI)	0.58 (VR)	0.65 (VR)	0.70 (LO,VI0.78 (VR)	0.89 (FA)	0.84 (PD)	[0.84,0.85]	0.94 (VR)	[0.93,0.94]	
t1:9	4x	1000	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (WE)	0.83 (VR)	0.72 (VR)	0.76 (VR)	0.86 (VR)	0.82 (VR)	0.87 (VR)	0.90 (FA)	0.89 (PD)	[0.88,0.89]	0.96 (VR)	[0.96,0.97]	
t1:9	6x	5	2	0.01 (ML)	0.04 (VR)	0.08 (VR)	0.02 (LO)	0.01 (VR)	0.01 (VR)	0.01 (RI)	0.10 (ML,VI0.20 (RI)	0.20 (LO)	0.20 (LO)	0.17 (FA)	0.23 (FA)	0.45 (ML)	0.10 (FA)	[0.09,0.12]	0.18 (FA)	[0.15,0.22]	
t1:9	6x	10	2	0.01 (VR)	0.02 (VR)	0.01 (RI)	0.01 (VR)	0.01 (LO)	0.01 (VR)	0.05 (RI)	0.17 (ML)	0.20 (LO)	0.30 (LO)	0.10 (LO)	0.20 (RI)	0.30 (LO)	0.47 (ML)	0.16 (VR)	[0.15,0.17]	0.26 (FA)	[0.23,0.29]
t1:9	6x	15	2	0.02 (VR)	0.04 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.05 (RI)	0.15 (ML)	0.15 (VR)	0.16 (VR)	0.15 (VR)	0.20 (LO,F0.34 (FA)	0.47 (ML)	0.22 (VR)	[0.21,0.23]	0.31 (VR)	[0.29,0.34]	
t1:9	6x	20	2	0.02 (VR)	0.03 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.02 (VR)	0.05 (MM)	0.30 (RI)	0.20 (LO)	0.25 (VR)	0.20 (RI,LI0.23 (FA)	0.39 (FA)	0.48 (ML)	0.27 (VR)	[0.26,0.28]	0.39 (VR)	[0.37,0.42]	
t1:9	6x	50	2	0.02 (VR)	0.04 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.04 (WE)	0.30 (LO)	0.30 (ML)	0.30 (LO)	0.30 (LO)	0.15 (VR)	0.45 (FA)	0.66 (FA)	0.41 (VR)	[0.39,0.42]	0.63 (VR)	[0.61,0.65]
t1:9	6x	100	2	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.05 (RI)	0.30 (VR)	0.41 (ML)	0.29 (VR)	0.31 (VR)	0.44 (VR)	0.53 (FA)	0.79 (FA)	0.57 (VR)	[0.55,0.58]	0.76 (VR)	[0.75,0.78]
t1:9	6x	500	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.04 (RI)	0.54 (VR)	0.63 (VR)	0.72 (VR)	0.71 (VR)	0.77 (VR)	0.78 (VR)	0.90 (FA)	0.69 (VR)	[0.68,0.70]	0.94 (VR)	[0.93,0.94]
t1:9	6x	1000	2	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.05 (RI)	0.83 (VR)	0.71 (VR)	0.81 (VR)	0.89 (VR)	0.89 (VR)	0.92 (VR)	0.90 (FA)	0.72 (VR)	[0.71,0.73]	0.97 (VR)	[0.96,0.97]
t1:9	8x	5	2	0.00 (ML)	0.00 (VR)	0.03 (VR)	0.03 (VR)	0.02 (VR)	0.00 (VR)	0.07 (RI)	0.20 (LO)	0.09 (VR)	0.20 (LO)	0.20 (RI)	0.29 (FA)	0.42 (ML)	0.09 (VR)	[0.08,0.10]	0.17 (FA)	[0.14,0.20]	
t1:9	8x	10	2	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.02 (VR)	0.00 (VR)	0.00 (LO)	0.04 (RI)	0.09 (VR)	0.17 (VR)	0.13 (VR)	0.15 (VR)	0.17 (FA)	0.32 (FA)	0.43 (FA)	0.17 (VR)	[0.16,0.19]	0.26 (VR)	[0.24,0.29]
t1:9	8x	15	2	0.01 (VR)	0.04 (VR)	0.03 (WE)	0.02 (VR)	0.02 (VR)	0.01 (VR)	0.04 (MM)	0.10 (ML,RI0.15 (VR)	0.12 (VR)	0.20 (LO)	0.20 (FA)	0.34 (FA)	0.51 (FA)	0.21 (VR)	[0.20,0.23]	0.33 (VR)	[0.31,0.35]	
t1:9	8x	20	2	0.01 (VR)	0.02 (ML)	0.01 (ML)	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.04 (MM)	0.10 (VR)	0.20 (ML)	0.19 (VR)	0.30 (RI)	0.17 (VR)	0.35 (FA)	0.57 (FA)	0.27 (VR)	[0.26,0.28]	0.40 (VR)	[0.38,0.43]
t1:9	8x	50	2	0.03 (ML)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.03 (WE)	0.18 (VR)	0.24 (VR)	0.40 (LO)	0.27 (VR)	0.32 (VR)	0.42 (FA)	0.75 (FA)	0.44 (VR)	[0.42,0.45]	0.62 (VR)	[0.60,0.64]
t1:9	8x	100	2	0.01 (ML)	0.02 (VR)	0.00 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.05 (MM)	0.24 (VR)	0.26 (VR)	0.35 (VR)	0.33 (VR)	0.33 (VR)	0.39 (FA)	0.85 (FA)	0.58 (VR)	[0.56,0.59]	0.78 (VR)	[0.77,0.79]
t1:9	8x	500	2	0.00 (VR)	0.06 (MM)	0.66 (VR)	0.66 (VR)	0.67 (VR)	0.71 (VR)	0.76 (VR)	0.70 (VR)	0.90 (FA)	0.70 (VR)	[0.70,0.71]	0.94 (VR)	[0.94,0.95]					
t1:9	8x	1000	2	0.01 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.06 (WE)	0.78 (VR)	0.77 (VR)	0.87 (VR)	0.82 (VR)	0.76 (VR)	0.89 (VR)	0.90 (FA)	0.73 (VR)	[0.72,0.73]	0.97 (VR)	[0.96,0.97]
t1:9	4x*	5	2	0.01 (VR)	0.07 (VR)	0.07 (ML)	0.01 (VR)	0.04 (VR)	0.04 (VR)	0.09 (LO)	0.20 (LO)	0.20 (RI,LI0.30 (LO)	0.12 (VR)	0.21 (FA)	0.19 (ML)	0.47 (ML)	0.12 (FA)	[0.11,0.14]	0.18 (FA)	[0.15,0.21]	
t1:9	4x*	10	2	0.01 (RI)	0.09 (LO)	0.00 (LO)	0.01 (RI)	0.01 (VR)	0.01 (VR)	0.08 (MM)	0.15 (ML)	0.20 (RI,LI0.20 (LO)	0.18 (VR)	0.25 (FA)	0.22 (ML)	0.47 (ML)	0.18 (FA)	[0.17,0.20]	0.28 (FA)	[0.25,0.31]	
t1:9	4x*	15	2	0.04 (LO)	0.07 (VR)	0.03 (RI)	0.01 (RI)	0.01 (WE)	0.01 (LO)	0.08 (MM)	0.14 (VR)	0.19 (ML)	0.13 (ML,VI0.20 (LO)	0.20 (RI,LI0.30 (RI)	0.49 (ML)	0.22 (VR)	[0.20,0.23]	0.30 (VR)	[0.28,0.33]		
t1:9	4x*	20	2	0.03 (LO)	0.02 (VR)	0.03 (VR)	0.03 (LO)	0.00 (RI)	0.02 (FA)	0.08 (MM)	0.20 (LO)	0.20 (RI)	0.30 (LO)	0.22 (PD)	0.30 (LO)	0.37 (FA)	0.50 (ML)	0.27 (VR)	[0.26,0.28]	0.37 (VR)	[0.35,0.39]
t1:9	4x*	50	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (ML)	0.01 (VR)	0.01 (LO)	0.08 (MM)	0.30 (RI)	0.30 (RI)	0.30 (LO)	0.26 (VR)	0.30 (RI)	0.41 (FA)	0.53 (FA)	0.44 (PD)	[0.43,0.46]	0.62 (VR)	[0.60,0.64]
t1:9	4x*	100	2	0.01 (VR)	0.02 (VR)	0.00 (LO)	0.01 (VR)	0.01 (LO)	0.00 (VR)	0.08 (MM)	0.32 (VR)	0.40 (RI)	0.33 (VR)	0.30 (VR)	0.37 (VR)	0.52 (FA)	0.66 (FA)	0.59 (PD)	[0.58,0.61]	0.73 (VR)	[0.72,0.75]
t1:9	4x*	500	2	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.00 (ML)	0.00 (VR)	0.00 (VR)	0.08 (MM)	0.53 (VR)	0.56 (VR)	0.70 (LO)	0.65 (VR)	0.71 (VR)	0.64 (VR)	0.88 (FA)	0.84 (PD)	[0.83,0.84]	0.93 (VR)	[0.93,0.94]
t1:9	4x*	1000	2	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.08 (MM)	0.70 (VR)	0.70 (VR)	0.76 (VR)	0.82 (VR)	0.84 (VR)	0.90 (FA)	0.89 (PD)	[0.88,0.89]	0.96 (VR)	[0.96,0.97]	
t1:9	6x*	5	2	0.06 (ML)	0.00 (VR)	0.08 (ML)	0.03 (VR)	0.03 (RI)	0.05 (FA)	0.06 (MM)	0.05 (MM,VI0.09 (VR)	0.08 (FA)	0.10 (RI)	0.21 (FA)	0.28 (FA)	0.45 (ML)	0.12 (FA)	[0.10,0.13]	0.16 (FA)	[0.13,0.19]	
t1:9	6x*	10	2	0.00 (VR)	0.03 (VR)	0.00 (LO)	0.01 (ML)	0.01 (VR)	0.00 (MM)	0.06 (MM)	0.12 (ML)	0.14 (VR)	0.20 (LO)	0.09 (VR,F0.22 (FA)	0.25 (FA)	0.46 (ML)	0.17 (VR)	[0.16,0.18]	0.23 (VR)	[0.21,0.25]	
t1:9	6x*	15	2	0.04 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.03 (RI)	0.00 (MM)	0.06 (RI)	0.20 (RI,LI0.16 (VR)	0.11 (VR)	0.13 (VR)	0.30 (LO)	0.37 (FA)	0.48 (ML)	0.24 (VR)	[0.22,0.25]	0.31 (VR)	[0.28,0.33]	
t1:9	6x*	20	2	0.02 (VR)	0.03 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.01 (MM)	0.06 (RI)	0.14 (ML)	0.40 (LO)	0.24 (VR)	0.20 (VR)	0.19 (FA)	0.39 (FA)	0.48 (FA)	0.26 (VR)	[0.25,0.28]	0.37 (VR)	[0.34,0.39]
t1:9	6x*	50	2	0.02 (VR)	0.03 (VR)	0.02 (LO)	0.01 (ML)	0.01 (VR)	0.01 (MM)	0.01 (RI)	0.19 (VR)	0.21 (ML)	0.22 (VR)	0.18 (VR)	0.49 (FA)	0.66 (FA)	0.45 (VR)	[0.43,0.46]	0.61 (VR)	[0.59,0.63]	
t1:9	6x*	100	2	0.02 (VR)	0.01 (VR)	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.07 (MM)	0.27 (VR)	0.30 (VR)	0.23 (VR)	0.27 (VR)	0.37 (VR)	0.45 (FA)	0.79 (FA)	0.54 (VR)	[0.53,0.55]	0.75 (VR)	[0.73,0.76]
t1:9	6x*	500	2	0.00 (VR)	0.07 (MM)	0.61 (VR)	0.62 (VR)	0.63 (VR)	0.56 (VR)	0.65 (VR)	0.59 (VR)	0.90 (FA)	0.70 (VR)	[0.69,0.71]	0.94 (VR)	[0.93,0.94]					
t1:9	6x*	1000	2	0.01 (LO)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.07 (RI)	0.80 (VR)	0.75 (VR)	0.78 (VR)	0.84 (VR)	0.87 (VR)	0.92 (VR)	0.90 (FA)	0.73 (VR)	[0.72,0.74]	0.97 (VR)	[0.96,0.97]	
t1:9	8x*	5	2	0.02 (VR)	0.03 (ML)	0.03 (VR)	0.01 (VR)	0.04 (VR)	0.03 (VR)	0.00 (RI)	0.13 (VR)	0.10 (RI)	0.14 (VR)	0.08 (PD)	0.21 (FA)	0.28 (FA)	0.36 (ML)	0.10 (VR)	[0.09,0.11]	0.14 (VR)	[0.12,0.16]

dist	2n	loci	al	RMSE						IC						CCC					
				PO	FS	HS	GPGO	UN	GUGN	UR	PO	FS	HS	GPGO	UN	GUGN	UR	Farthing	IC	IAC	IC
t1:9	8x*	10	2	0.03 (VR)	0.00 (WE)	0.00 (VR)	0.00 (VR)	0.04 (VR)	0.00 (VR)	0.03 (MM)	0.10 (RI,LF0.30 (LO)	0.15 (VR)	0.30 (LO)	0.16 (FA)	0.19 (FA)	0.44 (FA)	0.18 (VR)	[0.17,0.19]	0.24 (VR)	[0.22,0.26]	
t1:9	8x*	15	2	0.01 (LO)	0.00 (VR)	0.02 (VR)	0.06 (VR)	0.00 (VR)	0.01 (VR)	0.03 (MM)	0.11 (MM)	0.15 (VR)	0.20 (LO)	0.15 (VR)	0.20 (ML,RL0.33 (FA)	0.51 (FA)	0.23 (VR)	[0.22,0.24]	0.31 (VR)	[0.29,0.34]	
t1:9	8x*	20	2	0.00 (VR)	0.03 (VR)	0.02 (VR)	0.04 (VR)	0.00 (VR)	0.02 (VR)	0.04 (MM)	0.17 (VR)	0.22 (VR)	0.14 (VR)	0.18 (VR)	0.20 (VR)	0.38 (FA)	0.57 (FA)	0.28 (VR)	[0.27,0.29]	0.38 (VR)	[0.36,0.41]
t1:9	8x*	50	2	0.02 (VR)	0.01 (VR)	0.02 (VR)	0.01 (VR)	0.00 (VR)	0.02 (VR)	0.03 (MM)	0.22 (VR)	0.27 (VR)	0.29 (VR)	0.30 (VR)	0.35 (VR)	0.46 (FA)	0.76 (FA)	0.43 (VR)	[0.42,0.44]	0.61 (VR)	[0.59,0.63]
t1:9	8x*	100	2	0.01 (ML)	0.01 (VR)	0.03 (VR)	0.00 (LO)	0.01 (VR)	0.01 (VR)	0.03 (MM)	0.30 (VR)	0.30 (VR)	0.30 (VR)	0.40 (VR)	0.38 (VR)	0.42 (FA)	0.85 (FA)	0.57 (VR)	[0.56,0.58]	0.76 (VR)	[0.74,0.77]
t1:9	8x*	500	2	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.01 (VR)	0.04 (MM)	0.62 (VR)	0.60 (VR)	0.68 (VR)	0.63 (VR)	0.69 (VR)	0.65 (VR)	0.90 (FA)	0.70 (VR)	[0.69,0.71]	0.94 (VR)	[0.93,0.94]
t1:9	8x*	1000	2	0.01 (VR)	0.01 (VR)	0.00 (VR)	0.00 (VR)	0.00 (VR)	0.01 (VR)	0.04 (MM)	0.76 (VR)	0.80 (VR)	0.85 (VR)	0.80 (VR)	0.81 (VR)	0.85 (VR)	0.90 (FA)	0.73 (VR)	[0.72,0.73]	0.97 (VR)	[0.96,0.97]