Results Summary from GeneEvolve Simulation 2008–08–12 09:59:03

Basic Parameters:

Working Directory: H:\GE

Number of generations: 10

Population size at start: 10000

Number of genes: 7

Vertical Trans. model: vertical transmission from parental phenotypes to offspring

Assort. Mating model: primary phenotypic assortment – correlation b/w mates due to their choosing similar phenotypes AM = 0.2

Sample Sizes in Dataset:

MZ	DZ	Parents	Sibs	Spouses	Children
1460	2013	1795	2531	2583	2961

Variance Components – User Input: (Note: U+MZ+TW=E)

A	AA	D	F	S	U	MZ	TW	SEX	AGE	A.by.SEX	A.by.AGE	A.by.S	A.by.U
0.3	0	0.2	0.1	0.1	0.3	0	0	0	0	0	0	0	0

Time

Simulation started: 2008–08–12 09:57:35

Simulation ended: 2008–08–12 09:59:04

Minutes taken – looping through generations: 0.98

Minutes taken – creating pedigree datasets: 0.64

Minutes taken – finding relative correlations: 0.01

Minutes taken – TOTAL: 1.48

Warnings in script:

Correlations between 10 Relative Types

True Standardized Variance Components in Dataset

A	AA	D	F	S	U	MZ	TW	SEX	AGE	A.by.SEX	A.by.AGE	A.by.S	A.by.U	Covs	AM
0.21	0	0.13	0.12	0.06	0.18	0	0	0	0	0	0	0	0	0.29	0.2
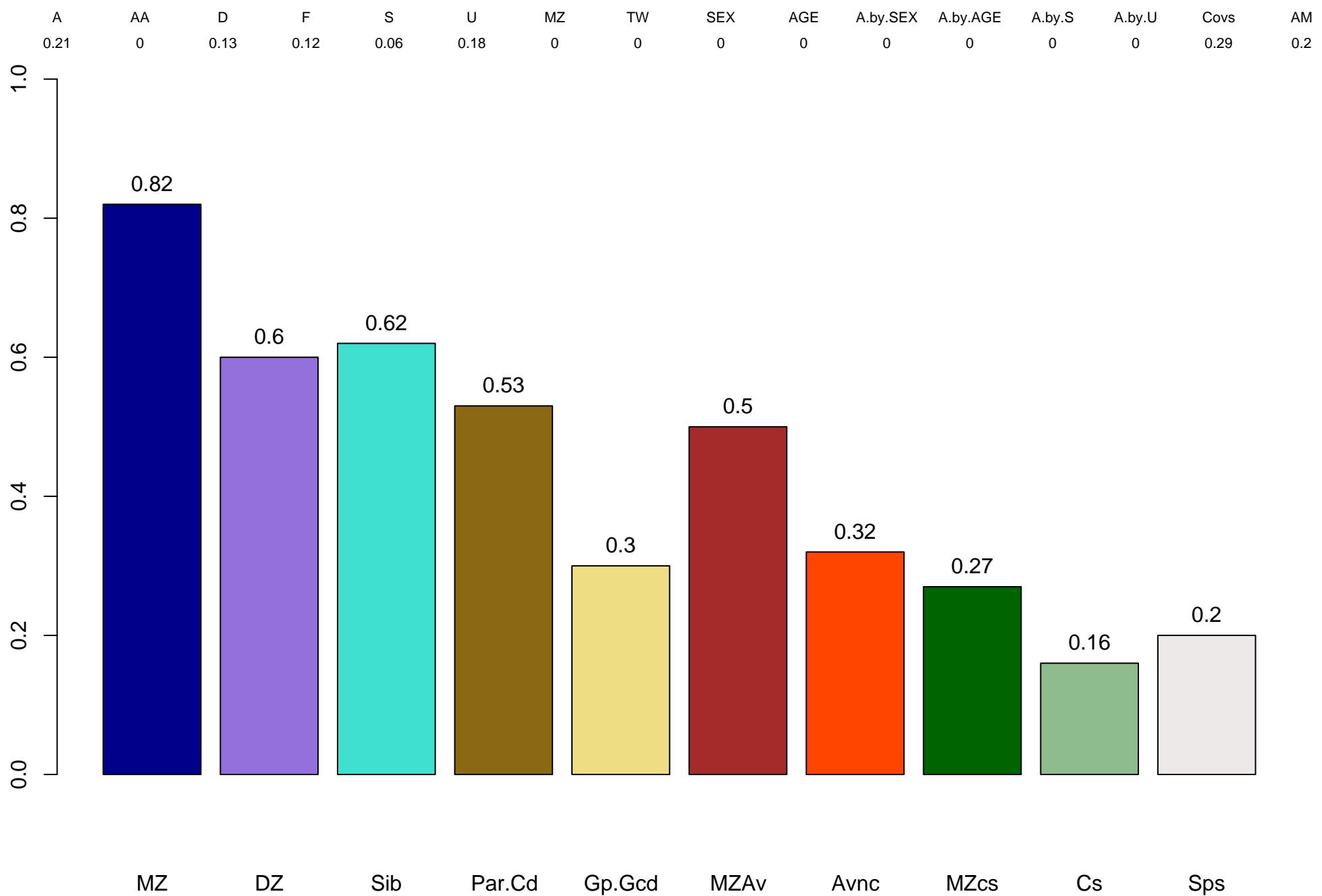
Change in Variance Across Generations – Includes V(P)

Unstandardized Variance Components

	V(A)	V(AA)	V(D)	V(F)	V(S)	V(E)	V(Sex)	V(Age)	V(AxSex)	V(AxAge)	V(AxS)	V(AxU)	Cov(A,F)	V(P)	r(sps)
Start:	0.3	0	0.2	0.1	0.1	0.3	0	0	0	0	0	0	0	1.06	0.2
End:	0.33	0	0.2	0.17	0.1	0.3	0	0	0	0	0	0	0.13	1.54	0.2
Data:	0.33	0	0.21	0.18	0.1	0.29	0	0	0	0	0	0	0.14	1.56	0.2
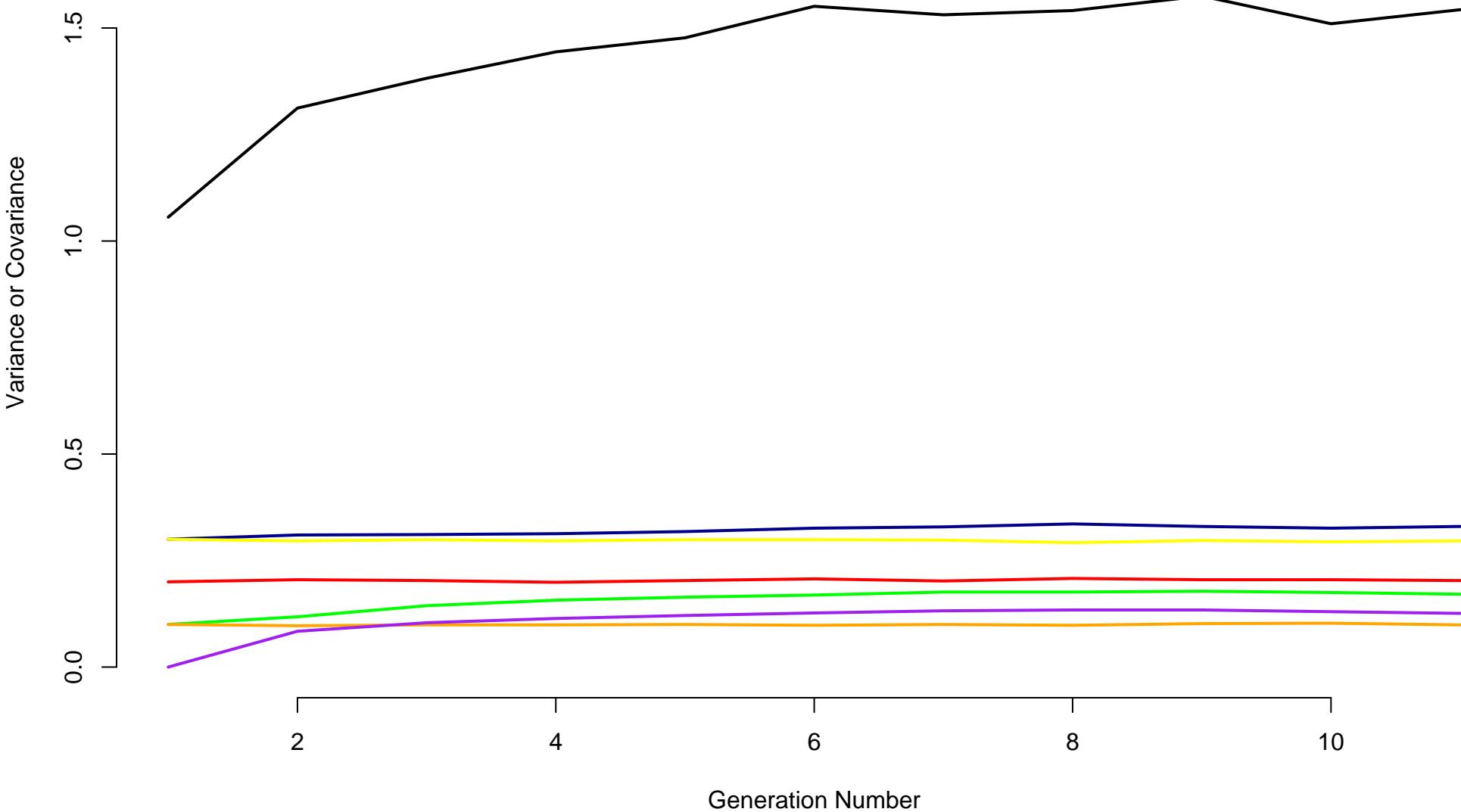
Change in Variance Across Generations – Does Not Include V(P)

Unstandardized Variance Components

	V(A)	V(AA)	V(D)	V(F)	V(S)	V(E)	V(Sex)	V(Age)	V(AxSex)	V(AxAge)	V(AxS)	V(AxU)	Cov(A,F)	r(sps)
Start:	0.3	0	0.2	0.1	0.1	0.3	0	0	0	0	0	0	0	0.2
End:	0.33	0	0.2	0.17	0.1	0.3	0	0	0	0	0	0	0.13	0.2
Data:	0.33	0	0.21	0.18	0.1	0.29	0	0	0	0	0	0	0.14	0.2
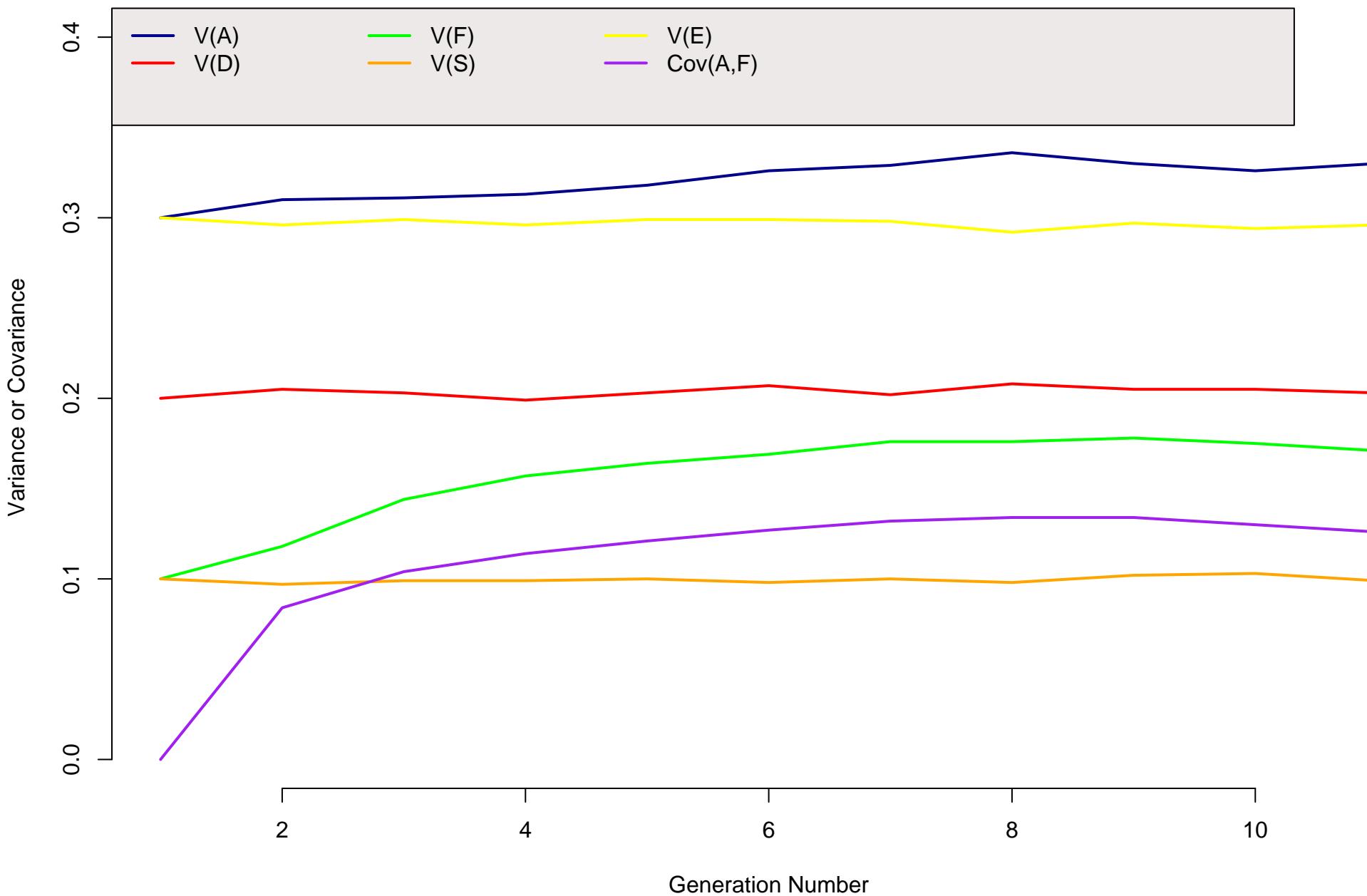
Change in V(A) Across Generations due to Assortative Mating

Unstandardized Variance Components

	V(A)	V(AA)	V(D)	V(F)	V(S)	V(E)	V(Sex)	V(Age)	V(AxSex)	V(AxAge)	V(AxS)	V(AxU)	Cov(A,F)	V(P)	r(sps)
Start:	0.3	0	0.2	0.1	0.1	0.3	0	0	0	0	0	0	0	1.06	0.2
End:	0.33	0	0.2	0.17	0.1	0.3	0	0	0	0	0	0	0.13	1.54	0.2