











BIF 2016 Genomics and Genetic Prediction Breakout













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SNP and QTN Selection

chromosomes (2,500 total SNP)

· Monomorphic SNP were removed

Total of 35 SNP selected as QTN

• Moderate frequency (q = 0.29-0.30) · Located within regions of the 2,500 marker SNP

SOUTH DAKOTA STATE UNIVERSITY

Used real data from the BovineSNP50 chip

Total of 2,500 SNP used as markers for MBVs

Selected regions of 250 nearly contiguous SNP on each of 10

USDA



USDA



genotypes

	Realized	mulation (n _r =	105) Model Derived Accuracy		Discovery Bia
	Mean	SE	Mean	SE	Mean
MBV	0.687	0.006	0.960	7.11e-5	0.273
CMBV	0.620	0.007	0.954	7.59e-5	0.334
Realize MBV a	ed Accur nd TBV	acy is th	eeding Value; CN	ation be	etween



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