Table 1 Linear regression (LR) validation of pedigree-based BLUP (PBLUP), single-step genomic BLUP (ssGBLUP), and weighted single-step genomic BLUP (WssGBLUP) predictions for the calf weaning weight to cow weight ratio under different validation strategies.

Validation strategy	Trait	Method	Ratio of accuracies	Bias	Accuracy	Dispersion
Young-animal	WR	PBLUP	0.57	-0.21	0.27	0.82
		ssGBLUP	0.77	-0.07	0.43	0.94
		WssGBLUP	0.77	-0.07	0.45	0.94
	WRC	PBLUP	0.30	-0.53	0.26	0.66
		ssGBLUP	0.49	-0.54	0.39	0.64
		WssGBLUP	0.47	-0.55	0.39	0.62
Progeny-test	WR	PBLUP	0.28	0.07	0.25	0.45
		ssGBLUP	0.53	0.06	0.40	0.76
		WssGBLUP	0.53	0.05	0.41	0.74
	WRC	PBLUP	0.37	0.85	0.28	0.39
		ssGBLUP	0.39	0.71	0.30	0.38
		WssGBLUP	0.38	0.73	0.30	0.36

Abbreviations: PBLUP = Best Linear Unbiased Prediction; ssGBLUP = Single-Step Genomic Best Linear Unbiased Prediction; WssGBLUP = weighted single-step Genomic Best Linear Unbiased Prediction; WR = ratio as calf and cow (WRC) traits.