Supporting Document

Integrating Automated Labeling Framework for Enhancing Deep Learning Models to Count Corn Plants Using UAS Imagery

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Table S1: R^2 and RMSE values observed for all DL model versions.

Model	Versions	R^2	Mean R^2	RMSE	Mean RMSE
InceptionV3	1	0.72	**0.55**	22.33	**29.052**
	2	0.64		25.69	
	3	**0.83**		**17.04**	
	4	0.17		44.27	
	5	0.37		35.93	
VGG16	1	0.93	**0.93**	11.14	**10.86**
	2	**0.94**		10.28	
	3	0.92		11.28	
	4	0.92		11.65	
	5	**0.94**		**9.95**	
VGG19	1	**0.86**	**0.844**	**15.67**	**16.45**
	2	0.83		16.94	
	3	0.84		16.49	
	4	**0.86**		15.79	
	5	0.83		17.36	
ViT	1	**0.90**	**0.73**	13.29	20.43
	2	0.90		**12.8**	
	3	0.89		13.67	
	4	**0.07**		49.50	
	5	0.90		13.20	

Note: Each DL model had five versions, each trained and validated with different training and validation datasets, selected based on five unique seeds.

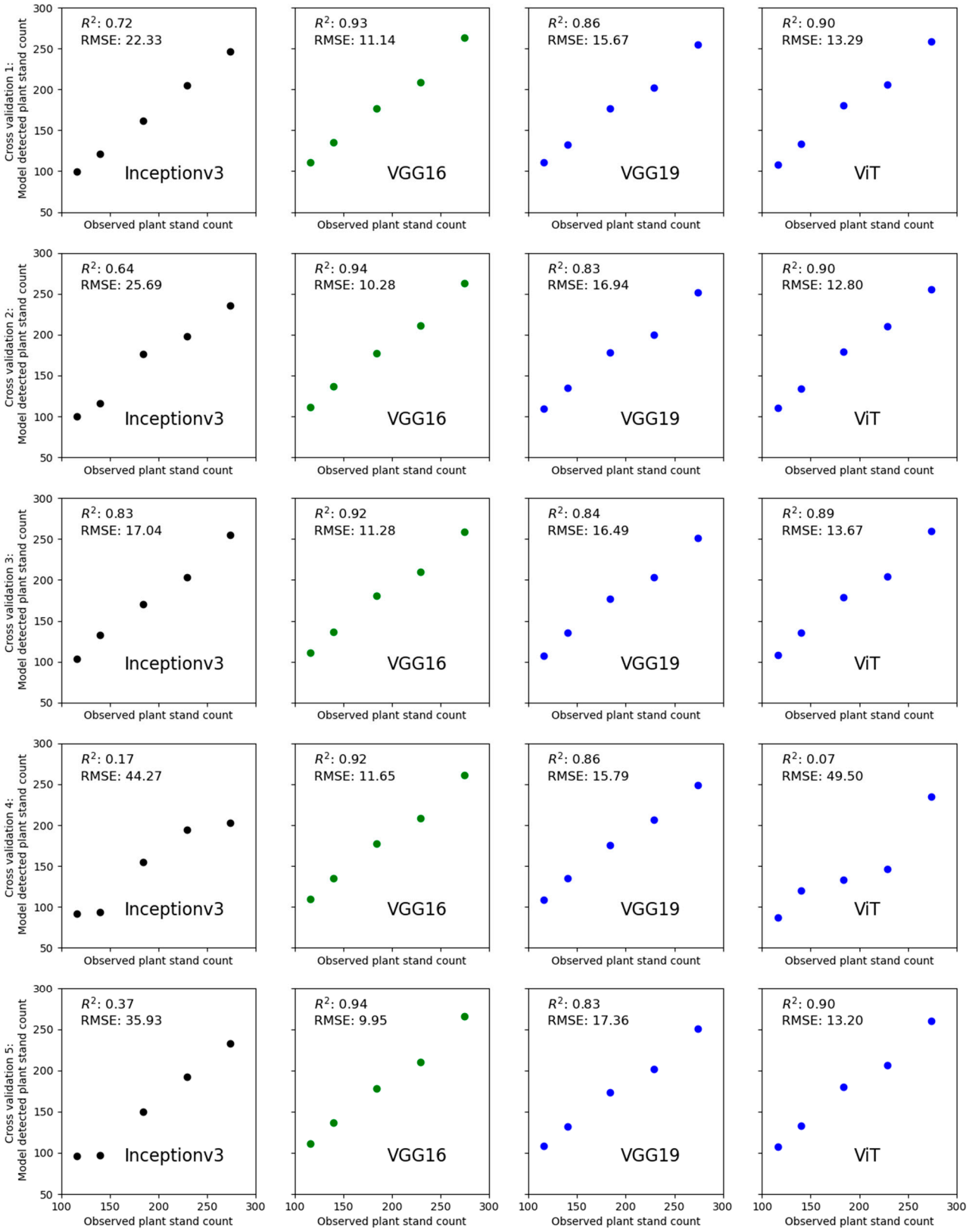

Figure S1: The comparison of corn stand count with the manual count for five test regions observed for each DL model.