







**Table 1. Linear correlation coefficients and models describing the relationship between the potassium requirement factor (KRF) and selected soil properties (n=121, outliers were removed).**

Relationship	Functions of best fit	R <sup>2</sup>	Standard error of y-estimates
KRF vs nitric K	no correlation	<0.10	0.09
KRF vs K*	no correlation	<0.10	0.12
KRF vs clay %	no correlation	<0.10	0.14
KRF vs VW**	no correlation	<0.10	0.63
KRF vs pH	$KRF = 1.65 + 0.3pH$	0.10	0.39
KRF vs tot cat***	$KRF = 2.66 + 0.04tot\ cat$	0.21	0.10
KRF vs Mg*	$KRF = 2.73 + 0.001Mg$	0.25	0.08
KRF vs Ca*	$KRF = 2.73 + 0.0003Ca$	0.17	0.09
KRF vs Na*	$KRF = 2.91 + 0.003Na$	0.16	0.07
KRF vs rout props****	$KRF = -1.19 + 0.001Mg + 2.95VW + 0.0001Oxal-Fe -0.03Zn$	0.44	0.85

\*exchangeable Ca, Mg, Na and K

\*\* VW = volume weight

\*\*\*tot cat = total cations

\*\*\*\*rout props = routinely measured soil proprieties

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