Table S4. Mixed model analysis of the effect of vernalization, population differences and their interaction effects (Vern. x Pop.) on growth, phenology and leaf traits in 14 *Arabidopsis thaliana* populations from the Swiss Alps that were grown in a greenhouse; the models included family (genotype) identity as a random effect. RDV, rosette diameter after three weeks; RLN, rosette leaf number after three weeks; DTF, days to flowering (flowers open); RDF, rosette diameter at flowering, LFA, leaf area; SLA, specific leaf area; SUC, leaf succulence.

Traits	Vernalization (nom.df^a=1)			Population (nom. df^a =13)			Vern. x Pop. (nom.df^a=13)		
	F	P	denom.df^b	F	P	denom.df^b	F	P	denom.df^b
RDV	24.5	$8.6 * 10^{-07}$	1167	22.5	$<1*10^{-14}$	169	4.062	$1.41*10^{-6}$	1167
RLN	13.8	0.0002	1167	44.7	$<1*10^{-14}$	169	5.382	$1.67*10^{-9}$	1167
DTF	5899	$<1*10^{-14}$	1166	69.8	$<1*10^{-14}$	169	28.3	$<1*10^{-14}$	1166
RDF	1724	$<1*10^{-14}$	1167	57.9	$<1*10^{-14}$	169	40.7	$<1*10^{-14}$	1167
LFA	3.037	0.0820	540	18.7	$<1*10^{-14}$	127	5.513	$1.90*10^{-9}$	540
SLA	378	$<1*10^{-14}$	540	24.9	$<1*10^{-14}$	127	7.947	$1.24*10^{-9}$	540
SUC	233	$<1*10^{-14}$	532	51.6	$<1*10^{-14}$	127	14.7	$<1*10^{-14}$	532

[a] nominator df, [b] denominator df