Excel Model

Sheet	Columns	column header	row key	get method
Temperature				
	A	'week'	1-52	
	B-L	year (2004-2014)	temperature (C)	input
	M	Norm(C30-yr)		input
	N-X	year (2004-2014)	Degree Week	if year temp > 22 add temp to row above
	Y	DWNorm		if norm temp > 22 add temp to row above
	Z-AJ	year (2004-2014)	Degree week diff	subtract DWNorm from year degree week
	AM-AW	year (2004-2014)	each season temp	average of all temperatures for season of given year
			each season abnormal temps	season temp - average of season of all years minus season for year
Precipitation				
	A	'week'	1-52	
	B-L	year (2004-2014)	weekly precipitation (cm)	input
	M	Norm(cm-30yr)		input
	N-X	year (2004-2014)	Abnormal weekly precipitation (cm)	temp minus norm for week of year
	AA-AK	year (2004-2014)	season precip	average of weeks precip / 10
			season abnormal precipd	average if weeks precip minus average all years season average
Model				
	A	year		input
	B	weeknum		input (1-52) for year
	C	cumulative weeknum		input (1-572) for all years
	D	Abn DW (30 yr)		Get - Temperature - Degree Week Difference
	E-H	Abn Wks [season] (C)		Get - Abnormal Temperature - by year and season
	I	Abn 1 Wk Prec (dm 30 yr)		Get - Precipitation - abnormal weekly precipitation
	J-M	abn yrly wks [season] (dm 30yr)		Get - precipitation - abnormal season
	N	Dayighthrs		Input
	O	Ind Model_18-38		=IF(AND(B54<44, B54>17),$T$4+$T$5*D53+$T$6*D52+$T$7*D51+$T$8*D50+$T$9*I53+$T$10*I52+$T$11*I51+$T$12*I50+$T$13*D53*I53+$T$14*D53*I52+$T$15*D53*I51+$T$16*D53*I50++$T$17*D52*I53+$T$18*D52*I52+$T$19*D52*I51+$T$20*D52*I50+$T$21*D51*I53+$T$22*D51*I52+$T$23*D51*I51+$T$24*D51*I50+$T$25*D50*I53+$T$26*D50*I52+$T$27*D50*I51+$T$28*D50*I50+$T$29*E54+$T$30*F2+$T$31*G2+$T$32*H2+$T$33*L54+$T$34*M2+$T$35*J2+$T$36*K2+$T$37*N54+$T$38*N53+$T$39*N52+$T$40*N51+$T$41*N50,0)

		Ind Model_18-38 translation		if week of year [17,44] intercept + { dw_lag1 * deg_week_diff(row 1 up) } + { dw_lag2 * deg_week_diff(row 2 up) } + { dw_lag3 * deg_week_diff(row 3 up) } + { dw_lag4 * deg_week_diff(row 4 up) } + { preci_lag_1 * abnormal_weekly_precip(row 1 up) } + { preci_lag_2 * abnormal_weekly_precip(row 2 up) } + { preci_lag_3 * abnormal_weekly_precip(row 3 up) } + { preci_lag_4 * abnormal_weekly_precip(row 4 up) } + { (dwlag1 * precilag1) * deg_week_diff(row 1 up) * abnormal_weekly_precip(row 1 up) } + { (dwlag1 * precilag2) * deg_week_diff(row 1 up) * abnormal_weekly_precip(row 2 up) } + { (dwlag1 * precilag3) * deg_week_diff(row 1 up) * abnormal_weekly_precip(row 3 up) } + { (dwlag1 * precilag4) * deg_week_diff(row 1 up) * abnormal_weekly_precip(row 4 up) } + { (dwlag2 * precilag1) * deg_week_diff(row 2 up) * abnormal_weekly_precip(row 1 up) } + { (dwlag2 * precilag2) * deg_week_diff(row 2 up) * abnormal_weekly_precip(row 2 up) } + { (dwlag2 * precilag3) * deg_week_diff(row 2 up) * abnormal_weekly_precip(row 3 up) } + { (dwlag2 * precilag4) * deg_week_diff(row 2 up) * abnormal_weekly_precip(row 4 up) } + { (dwlag3 * precilag1) * deg_week_diff(row 3 up) * abnormal_weekly_precip(row 1 up) } + { (dwlag3 * precilag2) * deg_week_diff(row 3 up) * abnormal_weekly_precip(row 2 up) } + { (dwlag3 * precilag3) * deg_week_diff(row 3 up) * abnormal_weekly_precip(row 3 up) } + { (dwlag3 * precilag4) * deg_week_diff(row 3 up) * abnormal_weekly_precip(row 4 up) } + { (dwlag4 * precilag1) * deg_week_diff(row 4 up) * abnormal_weekly_precip(row 1 up) } + { (dwlag4 * precilag2) * deg_week_diff(row 4 up) * abnormal_weekly_precip(row 2 up) } + { (dwlag4 * precilag3) * deg_week_diff(row 4 up) * abnormal_weekly_precip(row 3 up) } + { (dwlag4 * precilag4) * deg_week_diff(row 4 up) * abnormal_weekly_precip(row 4 up) } + { wks113temp * abnormal_seasonal_temp } + { wks1426templag * abnormal_seasonal_temp_last_year } + { wks2739templag * abnormal_next_seasonal_temp_last_year } + { wks4052templag * abnormal_2next_seasonal_temp_last_year } + { wks113preci * abnormal_precip 1-13 } + { wks1426precilag * abnormal_precip_last_year_14-26 { wks2739precilag * abnormal_precip_last_year_27-39 { wks4052precilag * abnormal_precip_last_year_40_52 { daylighthrs * daylighthrs} { daylightlag1* daylighthrs(1 row up)} { daylightlag2* daylighthrs(2 rows up} { daylightlag3* daylighthrs(3rows up) } { daylightlag4* daylighthrs(4rows up)}