

**Table C.1 - Non-calibrated parameters for Baker Creek MESH modelling**

Name	Description	Unit	Land-cover <sup>^</sup>	Value	Scenario(s)	Rationale	Source(s)		
ZBLD	Height for aggregating surface roughness	m		40					
FCAN	Annual max fraction of the grid cell occupied by the land cover	--	NL	0.2078	1, 1-P	Coniferous hillslope landcover	Spence and Hedstrom, 2018		
			BL	0.0075		Deciduous hillslope landcover			
			G	0.1592		Wetlands and peatlands			
			U	0.6255		Water and bedrock			
			NL	1	2, 3, 2-P	Needleleaf landcover type			
			BL	1		Broadleaf landcover type			
			WL	1		Grass landcover type			
			PL	1		Grass landcover type			
			W	1		Barren landcover type			
			BR	1		Barren landcover type			
QA50	Reference value of shortwave radiation used in calculation of stomatal resistance of the vegetation canopy	W m-2	NL	30	1, 2, 3, 1-P, 2-P		QA50, VPDA, VPDB, PSGA, and PSGB are part of the same equation as RSMN; therefore, only calibrating RSMN		
			BL	40					
			G	30	1, 1-P				
			WL	30	2, 3, 2-P				
			PL	30					
VPDA	Vapour pressure deficit coefficient "A" (calc. stomatal resistance of canopy)	--	NL	0.65	1, 2, 3, 1-P, 2-P		Verseghy, 2012		
			BL	0.5					
			G	0.5	1, 1-P				
			WL	0.5	2, 3, 2-P				
			PL	0.5					
VPDB	Vapour pressure deficit coefficient "B" (calc. stomatal resistance of canopy)	--	NL	1.05	1, 2, 3, 1-P, 2-P		QA50, VPDA, VPDB, PSGA, and PSGB are part of the same equation as RSMN; therefore, only calibrating RSMN		
			BL	0.6					
			G	1	1, 1-P				
			WL	1	2, 3, 2-P				
			PL	1					
PSGA	Soil moisture suction coefficient "A" (calc. stomatal resistance of canopy)	--	NL	100	1, 2, 3, 1-P, 2-P		Verseghy, 2012		
			BL	100					
			G	100	1, 1-P				
			WL	100	2, 3, 2-P				
			PL	100					
PSGB	Soil moisture suction coefficient "B" (calc. stomatal resistance of canopy)	--	NL	5	1, 2, 3, 1-P, 2-P		QA50, VPDA, VPDB, PSGA, and PSGB are part of the same equation as RSMN; therefore, only calibrating RSMN		
			BL	5					
			G	5	1, 1-P				
			WL	5	2, 3, 2-P				
			PL	5					
DRN, XDRAIN	Drainage index - controls water seepage from bottom of soil column (fraction from 0-1)	--	All	1	1, 1-P				
			NL, BL, BR	1	2, 3, 2-P				
			WL, PL, W	0.25	2, 3, 2-P				
FARE	Active fraction of grid cell	--		1	1, 2, 3, 1-P, 2-P		University of Saskatchewan, 2019		
DD, DDEN	Estimated drainage density of the GRU	km km-2	All	0.0036	1, 1-P				
			NL, WL, W	2	2, 3, 2-P				
			BL, PL, BR	0.0036	2, 3, 2-P				
XSLP, XSLOPE	Est. avg. slope of GRU; see "Notes on Interflow" doc (wiki)	--	All	0.06	1	0.06 is the estimated. avg. slope of the land based on slope analysis and then zonal raster statistics in QGIS			
			NL, BL, BR	0.06	2, 3	Based on slope analysis and then zonal raster statistics in QGIS			
			WL, PL	0.005					
			W	0.002					
WFCI, KS, KSAT	Saturated surface soil conductivity	m s-1	BR	1.00E-09	2, 3	See Dingman Figure 7.9 - between unfractured and fractured rock	Dingman, 2015		
MID	Set the mosaic tile ID > 0	--	All	1	1, 2, 3, 1-P, 2-P				
SAND - Layer 1		%	All	0	1, 1-P	Ranges for each layer are the areal weighted average by landcover type of the Scenario 2 soil texture ranges; soil layers are 0-0.15m, 0.15-0.4m, 0.4m-1.1m, and 1.1-4.1m depth.	Guan, Spence, & Westbrook, 2010; Guan, Westbrook, & Spence, 2010; Spence and Hedstrom 2018; and Dingman, 2015		
CLAY - Layer 1		%	All	39.92	1, 1-P				
ORG - Layer 1		%	All	60.08	1, 1-P				
ORG - Layer 2			All	39.6265					
ORG - Layer 3			All	10.07					
ORG - Layer 4			All	0					
SAND - Layer 1	Percent content of sand in the mineral soil; -2=organic soil, -3=rock	%	NL	-2	2, 3, 2-P	Guan, Spence, & Westbrook, 2010; Guan, Westbrook, & Spence, 2010; Spence and Hedstrom 2018; and Dingman, 2015			
SAND - Layer 1			BL	-2					
SAND - Layer 1			WL	-2					
SAND - Layer 1			PL	-2					
SAND - Layer 1			W	-2					
SAND - Layer 1			BR	-3					
SAND - Layer 2			WL	-2					
SAND - Layer 2			PL	-2					
SAND - Layer 2			W	-2					
SAND - Layer 2			BR	-3					
SAND - Layer 3			PL	-2					
SAND - Layer 3			BR	-3					
SAND - Layer 4			PL	-3					
SAND - Layer 4			BR	-3					

<sup>^</sup> Landcover types are: NL=needleleaf / coniferous trees; BL=broadleaf / deciduous trees; G=grass (represents wetlands and peatlands in Scenario 1/1-P); U=urban (represents

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Name	Description	Unit	Land-cover <sup>^</sup>	Value	Scenario(s)	Rationale	Source(s)
CLAY - Layer 1	Percent content of clay in the mineral soil	%	NL	0	2, 3, 2-P	Wetland: 0.2-0.6m peat over impervious lacustrine clay	Guan, Spence, & Westbrook, 2010; Guan, Westbrook, & Spence, 2010; Spence and Hedstrom 2018; Dingman, 2015
CLAY - Layer 1			BL	0			
CLAY - Layer 1			WL	0			
CLAY - Layer 1			PL	0			
CLAY - Layer 1			W	0			
CLAY - Layer 1			BR	0			
CLAY - Layer 2			WL	0			
CLAY - Layer 2			PL	0			
CLAY - Layer 2			W	0			
CLAY - Layer 2			BR	0			
CLAY - Layer 3			PL	0			
CLAY - Layer 3			BR	0			
CLAY - Layer 4			PL	0			
CLAY - Layer 4			BR	0			
ORG - Layer 1	Percent content of organic matter in the mineral soil; if sand=-2, 1.0=fibric, 2.0=hemic, 3.0=sapric	%	NL	1	2, 3, 2-P	Wetland: 0.2-0.6m peat over impervious lacustrine clay Peatland: 1.2m peat overlying bedrock	Guan, Spence, & Westbrook, 2010; Guan, Westbrook, & Spence, 2010; Spence and Hedstrom 2018; and Dingman, 2015
ORG - Layer 1			BL	1			
ORG - Layer 1			WL	1			
ORG - Layer 1			PL	1			
ORG - Layer 1			W	1			
ORG - Layer 1			BR	0			
ORG - Layer 2			NL	5			
ORG - Layer 2			BL	5			
ORG - Layer 2			WL	2			
ORG - Layer 2			PL	2			
ORG - Layer 2			W	2			
ORG - Layer 2			BR	0			
ORG - Layer 3			NL	0			
ORG - Layer 3			BL	0			
ORG - Layer 3			WL	0			
ORG - Layer 3			PL	3			
ORG - Layer 3			W	0			
ORG - Layer 3			BR	0			
ORG - Layer 4			NL	0			
ORG - Layer 4			BL	0			
ORG - Layer 4			WL	0			
ORG - Layer 4			PL	0			
ORG - Layer 4			W	0			
ORG - Layer 4			BR	0			
TBAR - Layer 1	Temperature of the soil layer	deg C	All	4.5	2, 3, 2-P	1, 1-P	Spence and Hedstrom, 2018; Morse et al, 2016
TBAR - Layer 1			NL, BL	5.438			
TBAR - Layer 1			WL, W	4.052			
TBAR - Layer 1			PL	7.552			
TBAR - Layer 1			BR	9.261			
TBAR - Layer 1			All	5.5			
TBAR - Layer 2			NL	4	2, 3, 2-P	1, 1-P	
TBAR - Layer 2			BL	1			
TBAR - Layer 2			WL	2.821			
TBAR - Layer 2			PL	6.134			
TBAR - Layer 2			W	2.821			
TBAR - Layer 2			BR	10.591			
TBAR - Layer 3			All	4.5	2, 3, 2-P	1, 1-P	
TBAR - Layer 3			NL	2			
TBAR - Layer 3			BL	0.5			
TBAR - Layer 3			WL	0.5			
TBAR - Layer 3			PL	2.5			
TBAR - Layer 3			W	0.5			
TBAR - Layer 4			BR	8	2, 3, 2-P	1, 1-P	
TBAR - Layer 4			All	0			
TBAR - Layer 4			NL	-0.5			
TBAR - Layer 4			BL	-0.5			
TBAR - Layer 4			WL	-0.5			
TBAR - Layer 4			PL	-0.5			
TCAN	Air temperature of the canopy	deg C	All	3.565	1, 2, 3, 1-P, 2-P		Spence and Hedstrom, 2018
TSNO	Temp. of the snow mass present on the ground surface; 0.0 if none	deg C	All	0	1, 2, 3, 1-P, 2-P		
TPND	Temp. of the liquid water stored on the ground surface; 0.0 if none	deg C	All	4.784	1, 2, 3, 1-P, 2-P		

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Name	Description	Unit	Land-cover <sup>^</sup>	Value	Scenario(s)	Rationale	Source(s)		
THLQ - Layer 1	Volumetric liquid water content stored in the soil	m3 m-3	All	0.4308	1, 1-P		Spence and Hedstrom, 2018; Morse et al, 2016		
			NL	0.2498					
			BL	0.2498					
			WL	0.5888	2, 3, 2-P				
			PL	0.726					
			W	1					
			BR	0.01					
			All	0.5513	1, 1-P				
			NL	0.3657					
			BL	0.3657					
			WL	0.7637	2, 3, 2-P				
			PL	0.8246					
			W	1					
			BR	0.01					
THLQ - Layer 2			All	0.5513	1, 1-P				
			NL	0.3657					
			BL	0.3657					
			WL	0.7637					
			PL	0.8246					
			W	1					
			BR	0.01					
			All	0.5513	1, 1-P				
			NL	0.3657					
			BL	0.3657					
			WL	0.7637	2, 3, 2-P				
			PL	0.8246					
			W	0.7637					
			BR	0.01					
THLQ - Layer 3			All	0.5513	1, 1-P				
			NL	0.3657					
			BL	0.3657					
			WL	0.7637					
			PL	0.8246					
			W	0.7637					
			BR	0.01					
			All	0.5513	1, 1-P				
			NL	0.3657					
			BL	0.3657					
			WL	0.3657	2, 3, 2-P				
			PL	0.3657					
			W	0.3657					
			BR	0.01					
THLQ - Layer 4			All	0.5513	1, 1-P				
			NL	0.3657					
			BL	0.3657					
			WL	0.3657					
			PL	0.3657	2, 3, 2-P				
			W	0.3657					
			BR	0.01					
			All	0	1, 2, 3, 1-P, 2-P				
			All	0	1, 2, 3, 1-P, 2-P	Will start the model when soil is unfrozen			
			All	0	1, 2, 3, 1-P, 2-P				
			All	0	1, 2, 3, 1-P, 2-P				
			All	0	1, 2, 3, 1-P, 2-P				
			All	0	1, 2, 3, 1-P, 2-P				
			All	0	1, 2, 3, 1-P, 2-P				
ZPND	Depth of liquid water stored on the ground surface	m	All	0	1, 2, 3, 1-P, 2-P	Will start when no ponding/recent rain events			
RCAN	Liquid water component of precip. held on the veg. canopy	kg m-2	All	0	1, 2, 3, 1-P, 2-P				
SCAN	Frozen water component of precip. held on the veg. canopy	kg m-2	All	0	1, 2, 3, 1-P, 2-P	Will start the model when soil is unfrozen			
SNO	Snow mass present on the ground surface	kg m-2	All	0	1, 2, 3, 1-P, 2-P				
ALBS	Albedo of the snow mass present on the ground surface; 0.0 is no such mass exists	--	All	0.2	1, 2, 3, 1-P, 2-P				
RHOS	Density of the snow mass present on the ground surface; 0.0 if no such mass exists	kg m-3	All	100	1, 2, 3, 1-P, 2-P				
GRO	Set to 0.0 before leaf-out; 1.0 when fully-leaved; or estimate the growth index with a fraction if in between	--	All	1	1, 2, 3, 1-P, 2-P				
Cmin	PDMROF Minimum storage capacity	m	All	0	1-P, 2-P				
K1	PDMROF Time constant for the first linear reservoir	hr	All	0	1-P, 2-P				
K2	PDMROF Time constant for the second linear reservoir	hr	All	0	1-P, 2-P				

<sup>^</sup> Landcover types are: NL=needleleaf / coniferous trees; BL=broadleaf / deciduous trees; G=grass (represents wetlands and peatlands in Scenario 1/1-P); U=urban (represents

Table C.2 - Calibrated parameters for Baker Creek MESH modelling

Name	Description	Unit	Land-cover <sup>A</sup>	Lower Limit	Upper Limit	Scenario(s)	Rationale	Source(s)		
WF-R2	River roughness factor combining channel shape, width to depth ratio, and Manning's n		N/A	0.3	3	1, 2, 3, 1-P, 2-P	Same range as Mkandla 2017 and Davison et al 2016	Davison et al, 2016		
ZSNL	Limiting snow depth below which coverage is <100%	m	All	0.001	0.2	1, 2, 3, 1-P, 2-P		Davison et al, 2016		
ZPLS	Maximum water ponding depth for snow-covered areas	m	All	0.005	0.5	1, 2, 3, 1-P, 2-P		Davison et al, 2016		
ZPLG	Maximum water ponding depth for snow-free areas	m	All	0.005	0.75	1, 1-P	Weighted value based on Scenario 1 is 1.35m but bump up to 1.5m; Herbert didn't calibrate, but we should (was calibrated in Davison, 2016), especially for lumped version; Note: Lichen on bedrock can hold ~8mm of water (as per Chris); Chris' file was for NL only	Davison et al, 2016		
			NL	0.005	0.7	2, 3, 2-P				
			BL	0.005	0.5					
			WL	0.005	0.75					
			PL	0.005	0.5					
			W	0.005	0.75					
			BR	0.005	0.75					
LAMX	Annual maximum leaf-area index (LAI)	--	NL	1.8	3	1, 2, 3, 1-P, 2-P		Verseghy, 2012		
			BL	2	4			Bonan, 1992		
			G	0.5	3	1, 1-P	Verseghy: 1.5 swamp, 4.0 grass, Dingman: 0.7-2.6 (grassland), 0.6-6 (open shrubland); In Baker, "grass" is used for peatland/wetland	Verseghy, 2012; Dingman, 2015		
			WL	0.5	3	2, 3, 2-P				
			PL	0.5	3					
LNZO	Natural log of the veroughness length of the vegetation / land surface	ln(m)	NL	-0.8	0	1, 2, 3, 1-P, 2-P	Corresponding tree heights (assuming $z_0=0.1 \cdot z_{veg}$ ) range: 4.5m - 10.0m	Spence, 2019		
			BL	-0.7	0		Corresponding tree heights (assuming $z_0=0.1 \cdot z_{veg}$ ) range: 5 m-10m	Spence, 2019		
			G	-3.689	-2.12		Assuming long grass, 0.25-1.2 m, and $z_0=0.1 \cdot z_{veg}$	Verseghy, 2012		
			U	-8.111	-1.6094		Range of LNZO for water and bedrock for Scenario 2	Verseghy, 2012		
			WL	-3.689	-2.12	2, 3, 2-P	Assuming long grass, 0.25-1.2 m, and $z_0=0.1 \cdot z_{veg}$	Verseghy, 2012		
			PL	-3.689	-2.12		0.25m;	( $z_0=0.0001-0.0005$ )		
			W	-8.111	-3.689		0.05m-2.0m	Verseghy, 2012		
			BR	-5.298	-1.609					
LAMN	Annual minimum leaf-area index (LAI)	--	NL	1.6	3	1, 2, 3, 1-P, 2-P		Verseghy, 2012; Spence, 2019		
			BL	0.4	1.2	1, 2, 3, 1-P, 2-P				
			G	0.3	3	1, 1-P				
			WL	0.3	3	2, 3, 2-P				
			PL	0.3	3	2, 3, 2-P				
ALVC	Avgerage visible albedo of vegetation when fully-leaved	--	NL	0.02	0.05	1, 2, 3, 1-P, 2-P	From Verseghy, 2012, visible albedo is approx. 2/3 of total	Verseghy, 2012; Dingman, 2015		
			BL	0.04	0.07		Dingman: open shrubland; Verseghy: swamp			
			G	0.02	0.08		Range of water and bedrock from scenario 2			
			U	0.04	0.3		Dingman: open shrubland; Verseghy: swamp			
			WL	0.02	0.08	2, 3, 2-P	Dingman: water total, Verseghy: swamp			
			PL	0.02	0.08		Verseghy: rock; Dingman: bare ground or urban			
			W	0.04	0.3					
			BR	0.07	0.2					
CMAS	Annual maximum vegetation canopy mass	kg m <sup>-2</sup>	NL	9	12	1, 2, 3, 1-P, 2-P		Verseghy, 2012; Spence, 2019		
			BL	15	22	1, 2, 3, 1-P, 2-P		Verseghy, 2012		
			G	1	4	1, 1-P				
			WL	1	4	2, 3, 2-P	Swamp/long grass			
			PL	1	4	2, 3, 2-P				
ALIC	Avgerage near-infrared (NIR) albedo of fully-leaved vegetation	--	NL	0.18	0.2	1, 2, 3, 1-P, 2-P	Varied Versegy Appendix A values by 0.01 either way	Verseghy, 2012		
			BL	0.28	0.3		Verseghy: NIR albedo = 2x total albedo; Dingman: 2x open shrubland; Verseghy: swamp			
			G	0.24	0.26		Range of water and bedrock from scenario 2			
			U	0.13	0.6		Dingman: 2x open shrubland; Verseghy: swamp			
			WL	0.24	0.26	2, 3, 2-P	Dingman: 0.070 water total x2=0.14			
			PL	0.24	0.26		Verseghy: albedo of rock x2; Dingman: urban x2			
			W	0.13	0.15					
			BR	0.2	0.6					
ROOT	Annual maximum rooting depth	m	NL			1, 2, 3, 1-P, 2-P	Due to frozen subsurface (permafrost) and/or bedrock	Verseghy, 2012; Spence, 2019		
			BL							
			G							
			WL							
			PL							
RSMN	Minimum stomatal resistance of vegetation canopy	s m <sup>-1</sup>	NL	150	250	1, 2, 3, 1-P, 2-P	Only RSMN and not the next 5 parameters calibrated as they are all part of the same equation; +/- 50 from the table for cal; same as Davison and Mkandla	Verseghy, 2012		
			BL	75	175					
			G	50	150					
			WL	50	150					
			PL	50	150					
SDEP	Permeable depth of soil column	m	All	0	4	1, 1-P	Across the site, either depth to bedrock or depth to permafrost; see also Morse et al 2016	Spence and Hedstrom, 2018; Morse et al, 2016		
			NL	1	4					
			BL	1	4					
			WL	0.4	1	2, 3, 2-P				
			PL	0.4	4					
			W	0.4	1					
			BR	0	0.5					

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Table C.2 - Calibrated parameters for Baker Creek MESH modelling

Name	Description	Unit	Land-cover <sup>A</sup>	Lower Limit	Upper Limit	Scenario(s)	Rationale	Source(s)
GRKF	Fraction of saturated surface soil conductivity moving horizontal	--	All	0.01	0.5	1		Spence, 2019; user-defined
			NL					
			BL					
			WL					
			PL					
			W					
			BR					
MANN	Manning's n (overland flow)	s m-1/3	All	0.016	0.2	1	Range of all Scenario 2 landcover	Chow, 1959 (obtained from Fish Crossing, 2019)
			NL	0.16	0.2		Range of floodplain: light to medium to dense brush and trees, in summer	
			BL	0.16	0.2		Natural channel, winding, sluggish b.-g. range	
			WL	0.03	0.08		Floodplains: pasture high grass to light brush and trees in summer	
			PL	0.03	0.08		Range of main channels c and d	
			W	0.033	0.05		Rough asphalt to short grass pasture floodplain	
			BR	0.016	0.035			
WFCI / KSAT	Saturated surface soil conductivity	m s-1	All	1.00E-07	1.00E-04	1	Range of non-bedrock values for Scenario 2	Guan, Spence, & Westbrook, 2010
			NL	1.00E-07	1.00E-05		Shallow values for Valley	
			BL	1.00E-07	1.00E-05		Shallow values for Valley	
			WL	1.00E-07	1.00E-06		Shallow values at wetland site	
			PL	1.00E-06	1.00E-04		Shallow value at peatland site (1 value given, so don't calibrate)	
			W	1.00E-07	1.00E-06		Same as wetlands	
SAND - Layer 2	Percent content of sand in the mineral soil	%	All	0	13.995	1, 1-P	Ranges for each layer are the areal weighted average by landcover type of the Scenario 2 soil texture ranges; soil layers are 0-0.15m, 0.15-0.4m, 0.4m-1.1m, and 1.1-4.1m depth.	Guan, Spence, & Westbrook, 2010; Guan, Westbrook, & Spence, 2010; Spence and Hedstrom 2018; and Dingman, 2015
SAND - Layer 3			All	0	25.387			
SAND - Layer 4			All	4.306	20.004			
CLAY - Layer 2	Percent content of clay in the mineral soil	%	All	39.92	42.073	1, 1-P		
CLAY - Layer 3			All	65.62	82.395			
CLAY - Layer 4			All	79.996	100			
SAND - Layer 2	Percent content of sand in the mineral soil	%	NL	0	65	2, 3, 2-P		Guan, Spence, & Westbrook, 2010; Guan, Westbrook, & Spence, 2010; Spence and Hedstrom 2018; and Dingman, 2015
SAND - Layer 2			BL	0	65			
SAND - Layer 3			NL	0	65			
SAND - Layer 3			BL	0	65			
SAND - Layer 3			WL	0	40			
SAND - Layer 3			W	0	40			
SAND - Layer 4			NL	20	40			
SAND - Layer 4			BL	20	40			
SAND - Layer 4			WL	0	40			
SAND - Layer 4			W	0	40			
CLAY - Layer 2	Percent content of clay in the mineral soil	%	NL	0	10	2, 3, 2-P		Guan, Spence, & Westbrook, 2010; Guan, Westbrook, & Spence, 2010; Spence and Hedstrom 2018; and Dingman, 2015
CLAY - Layer 2			BL	0	10			
CLAY - Layer 3			NL	40	65			
CLAY - Layer 3			BL	40	65			
CLAY - Layer 3			WL	60	100			
CLAY - Layer 3			W	60	100			
CLAY - Layer 3			NL	60	100			
CLAY - Layer 4			BL	60	100			
CLAY - Layer 4			WL	60	100			
Cmax	PDMROF Maximum storage	m	All	0	20	1-P, 2-P		Mengistu & Spence, 2016
B	PDMROF Shape factor	--	All	0.01	10	1-P, 2-P		

<sup>A</sup> Landcover types are: NL=needleleaf / coniferous trees; BL=broadleaf / deciduous trees; G=grass (represents wetlands and peatlands in Scenario 1/1-P); U=urban (represents

## Ranked NSE Values for 100 Calibration Trials

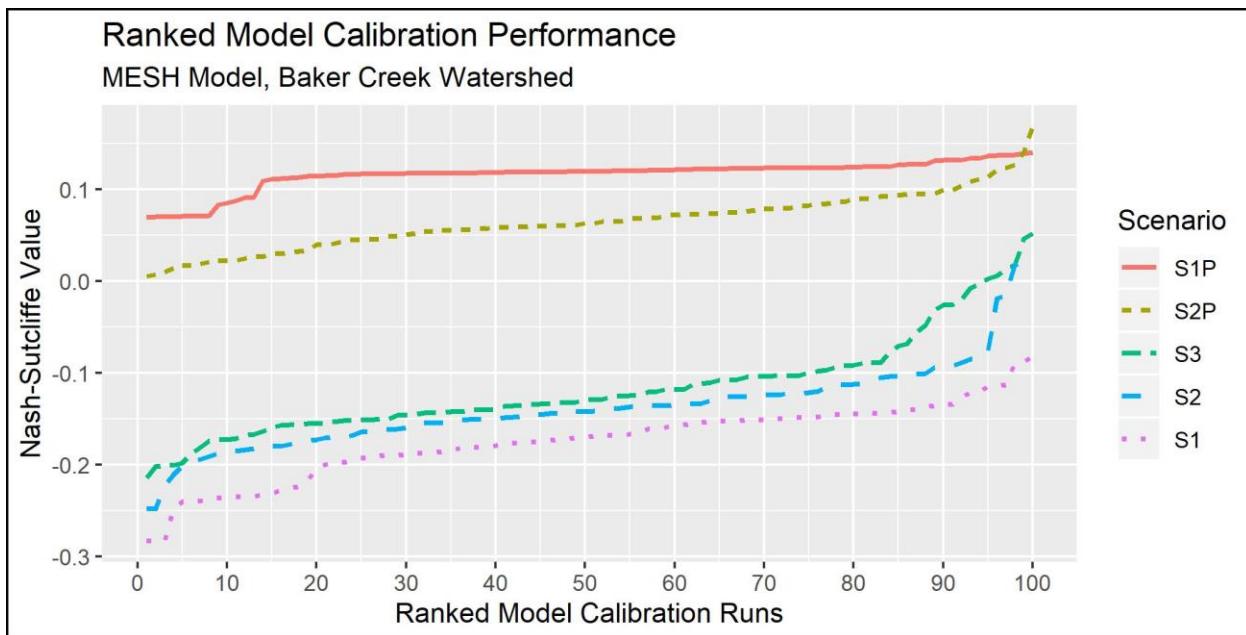
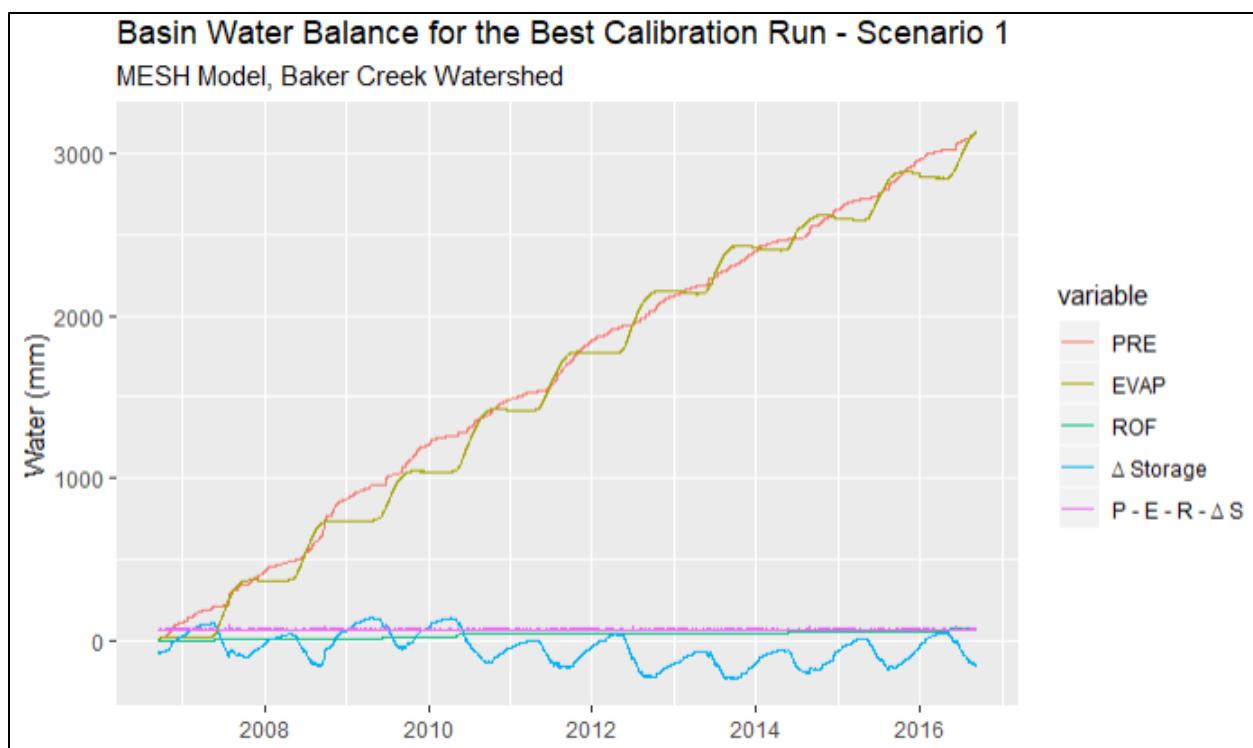


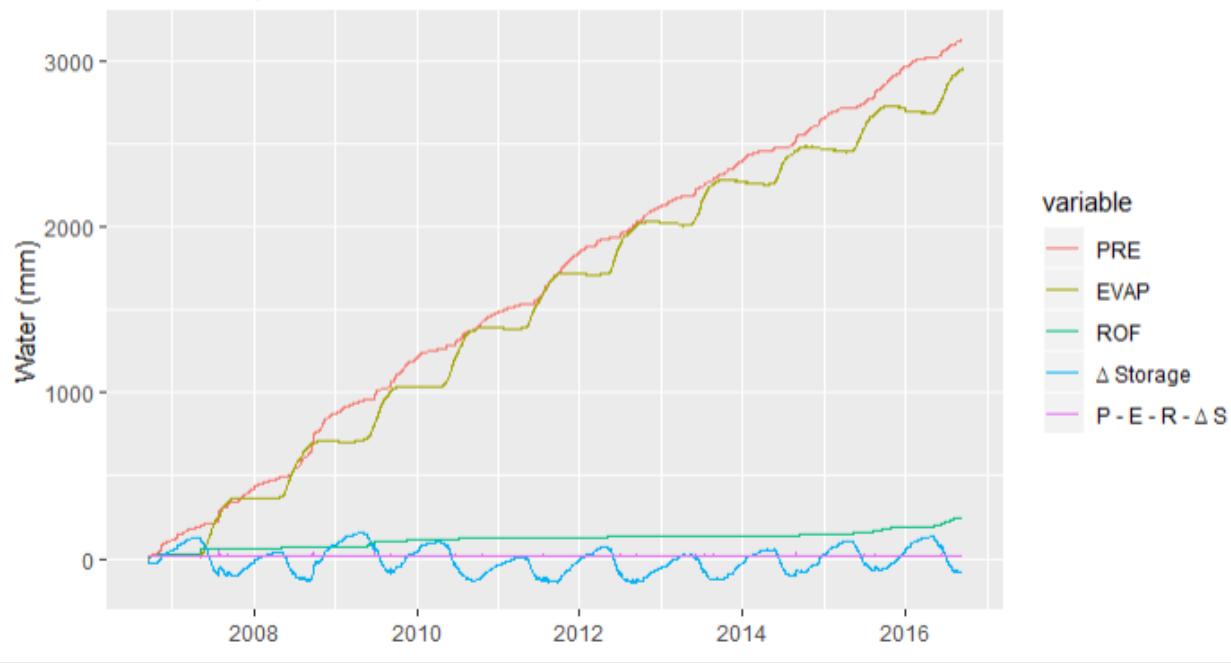
Figure C.1 – Ranked model calibration performance for all Scenarios modelled in the Baker Creek Watershed.

## Water Balance Plots



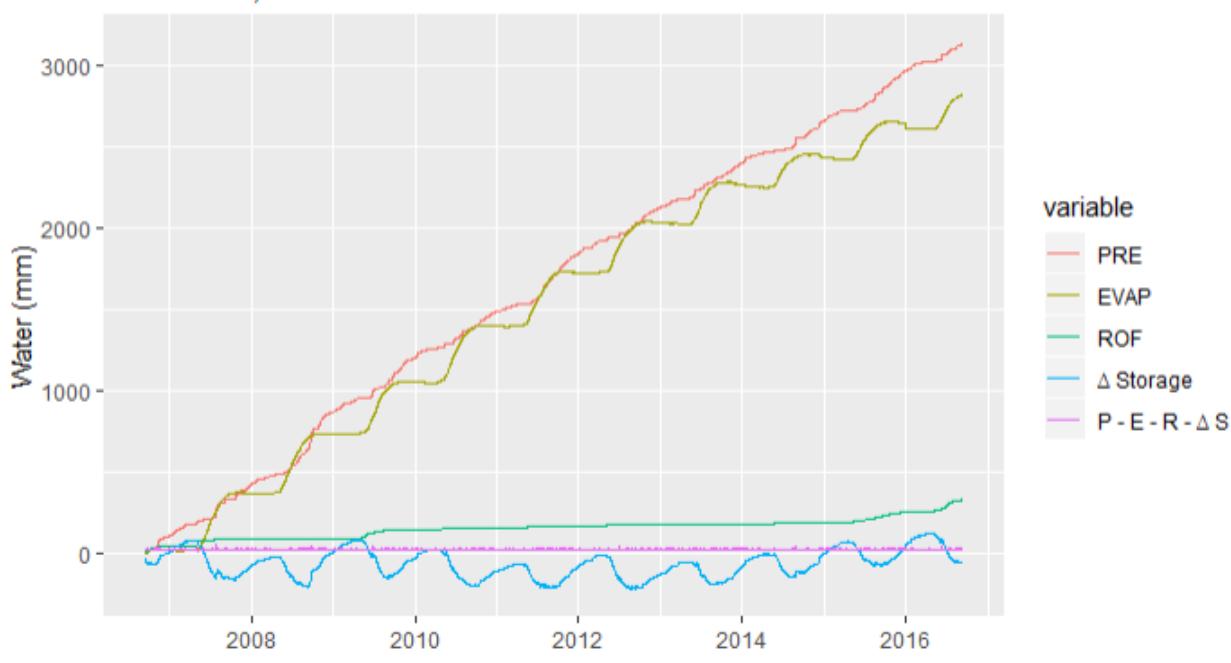
### Basin Water Balance for the Best Calibration Run - Scenario 2

MESH Model, Baker Creek Watershed



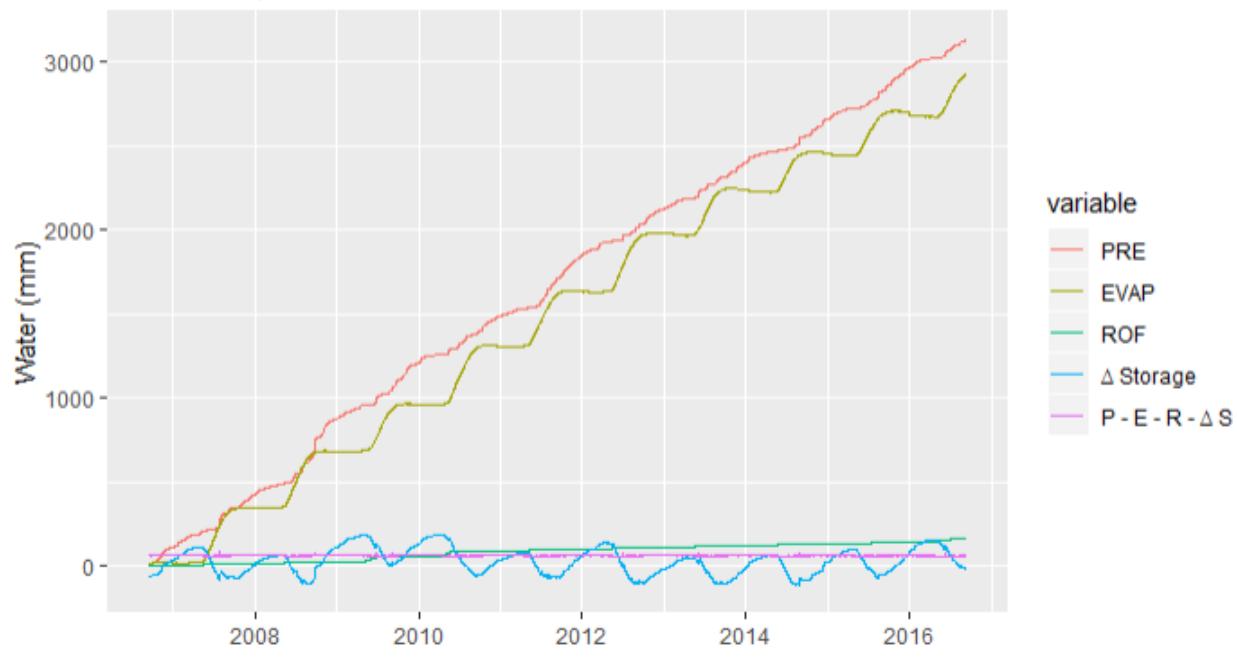
### Basin Water Balance for the Best Calibration Run - Scenario 3

MESH Model, Baker Creek Watershed



### Basin Water Balance for the Best Calibration Run - Scenario 1-P

MESH Model, Baker Creek Watershed



### Basin Water Balance for the Best Calibration Run - Scenario 2-P

MESH Model, Baker Creek Watershed

