Data Set Citation

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Segura C , Bladon K , Hatten J , Jones J , Hale C , Ice G , and Souder J. **Long-term effects of forest harvesting on summer low flow deficiets in the Coast Range of Oregon** GuenPatty.8.1

General Information

Title: Long-term effects of forest harvesting on summer low flow deficiets in the Coast Range of Oregon

Identifier: GuenPatty.8.1

Abstract: We examined long-term changes in daily streamflow associated with forestry practices with two datasets (this one and the original Alsea Streamflow dataset(1972)) over a 60-year period (1959–2017) in the Alsea Watershed Study, Oregon Coast Range, Pacific Northwest, USA. In this contemporary period, 2006 to 2017 (12 water years), data were collected at 10-minute intervals, including three to eight years of pre-harvest data rating curves were developed. Based 40 to 55 stage-discharge data points collected for each watershed. Each watershed has datasets describing the paired stage heights at both pre and post-harvest periods, the corrected stages based on reference and electronic readings, and flows calculated based upon the rating curve and stage heights. All measurements are in feet (ft), meters (m), cubic feet per second (cfs), or cubic meters per second (cms).

Keywords: 58–Riparian areas-- Management 59–Stream Measurements 60–Logging 61–Water levels-- Effect of logging on

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Data Set Character	istics			
Geographic Regio	n:			
Geographic Description:		Flynn Creek Basin, Hydrologic units (HUC14): 17100205030201		
Bounding Coordina	tes:	West: -123.891211 degrees		
		East: -123.734109033 degrees		
		North: 44.559185 degrees		
		South: 44.532827 degrees		
Geographic Regio	n:			
Geographic Descrip	otion:	Deer Creek Basin, HUC14: 1417100205030201		
Bounding Coordina	tes:	West: -123.872247 degrees		
		East: -123.842568 degrees		
		North: 44.556961 degrees		
		South: 44.525119 degrees		

Geographic Region:	
Geographic Description:	Needle Branch Creek Basin, HUC14: 17100205030202
Bounding Coordinates:	West: -123.863906 degrees
	East: -123.841675 degrees
	North: 44.52874 degrees
	South: 44.508146 degrees
Geographic Region:	
Geographic Description:	Flynn Creek USGS Stream Gage
Bounding Coordinates:	West: -123.87831 degrees
	East: -123.75443169 degrees
	North: 44.535218 degrees
	South: 44.535218 degrees
Geographic Region:	
Geographic Description:	Deer Creek USGS Stream Gage
Bounding Coordinates:	West: -123.853275 degrees
	East: -123.729421725 degrees
	North: 44.538629 degrees
	South: 44.538629 degrees
Geographic Region:	
Geographic Description:	Needle Branch USGS Stream Gage
Bounding Coordinates:	West: -123.85647 degrees
	East: -123.73261353 degrees
	North: 44.509812 degrees
	South: 44.509812 degrees
Time Period:	
Begin: 2005-10-05	

End: 2017-09-30

Sampling, Processing and Quality Control Methods

Step by Step Procedure	S
Step 1:	FCG_rating_2018.csv
Description:	These methods were used to rate the stage discharge data pairs for Flynn Creek. There are 61 stage-discharge data pairs; 55 were considered reliable. Date: yyyy-mm-dd, date of collection Q_filtered: 1 or 2 (included); 0 (not included) Time: 00:00:00, 24-hour clock, time of day Stage1_ft: Reference stage (ft) Stage2_ft: Electronic stage (ft) Q_cfs: Discharge (ft ³ /s) Stage1_m: Reference stage (m) Stage2_m: Electronic stage (m) Q_cms: Discharge (m ³ /s)
Rating Curve:	3rd order polynomial function:
Description:	logQ=a+b*log(H)+c*(log(H)2+d*(log(H) ³ ; H, is stage (feet) and Q is discharge (cfs).
Coefficients & Standard Errors (Se):	Coefficients: a (intercept), b*H, c*H ² , d*H ³ Fitted values: -16.9201, 37.4277, -25.7717, 6.9263 Se: 1.2916, 3.8391, 3.6641, 1.1273
Step 2:	FCG_Stage_2006_2017.csv
Description:	The stage and discharge time series were determined as follows for Flynn Creek: Date: yyyy-mm-ddd Time: 00:00:00 AM or PM Stage_ft: stage (ft) Stage_m: stage (m) Period: 2006-2010, 2011-2017 and stage < 2.3 feet, 2011-2017 and stage > 2.3 feet
Stage Correction:	Correction: Stage _C =(Stage _µ -b)/m, m=0.994 b=0.034, Stage _C =(Stage _µ -b)/m, m=0.9934 b=0.0379, Stage _C =(Stage _µ -b)/m, m=0.9675 b=0.1481 Stage _C is corrected stage, Stage _µ is the uncorrected stage and m and b are the slope and intercept of the relation
Description:	between reference stage and electronic stage.

Step 3:	FCG_Stage_gauge-logger-pairs_2012_2017.csv & FCG_Stage_gauge-logger-pairs_2008_2010.csv
Description:	These methods for Flynn Creek determined the correction for the stage based on the comparison between the reference and electronic stage data:
	Date: yyyy-mm-dd, Date of collection Ref_stage_ft: Reference stage (ft) Station_stage_ft: Electronic Stage (ft) Dif_ft: Difference: Electronic Stage- Reference stage (ft) WY: Water year Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (m) Station_stage_m: Electronic Stage (m) Dif_m: Difference: Electronic Stage- Reference stage (m)
Step 4:	FCG_10_Q_minute_data_2006-2017.csv
Description:	The stage and discharge time series were determined as follows for Flynn Creek: Date: yyyy-mm-dd Time: 00:00:00, 24- hour clock Stage_ft: Raw uncorrected stage (ft) Stage10correc1_ft: Corrected stage (ft)
	Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs: Discharge calculated based on corrected stage and rating curve (ft ³ /s) Stage_m: Raw uncorrected stage (m) Stage10correc1_m: Corrected stage(m)
	Q_10_raw_cms: Discharge calculated based on raw stage and rating curve (m ³ /s) Q_10_corr1_cms: Discharge calculated based on corrected stage and rating curve (m ³ /s)
Step 5: Description:	FCG_daily_Q_data_2006_2017.csv The stage and discharge time series were determined as follows for Flynn Creek: Date: yyyy-mm-dd
	Stage_raw_ft: Raw uncorrected stage (ft) Stagecorrec1_ft: Corrected stage (ft)
	Qraw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Qcorr1_cfs: Discharge calculated based on corrected stage and rating curve (ft ³ /s) Stage_raw_m: Raw uncorrected stage (m) Stagecorrec1_m: Corrected stage (m)
	Qraw_cms: Discharge calculated based on raw stage and rating curve (m ³ /s) Qcorr1_cms: Discharge calculated based on corrected stage and rating curve (m ³ /s)
Step 6: Description:	NBG_rating_2018.csv These methods were used to rate the stage-discharge data pairs. There are 59 stage-discharge data pairs; 49 were considered reliable.
	Date: yyyy-mm-dd, date of collection Q_filtered: 1 (included); 0 (not included) Time: 00:00:00, 24-hour clock, time of day Stage1_ft: Reference stage (ft) Stage2_ft: Electronic stage (ft) Q_cfs: Discharge (ft ³ /s)
	Q_cfs: Discharge (ft ³ /s) Stage1_m: Reference stage (m) Stage2_m: Electronic stage (m) Q_cms: Discharge (m ³ /s)
	2^{nd} order polynomial function: logQ=a+b*log(H)+c*(log(H)) ² where H is store in fact and Q is discharge in effe
Rating Curve:	where H, is stage in feet and Q is discharge in cfs Coefficient: a (intercept), b*H, c*H ²
Coefficients & Standard Errors (Se):	Coefficient: a (intercept), b*H, c*H ² Value: -3.57, 9.5247, -2.8025 Se: 0.088, 0.3201, 0.254

Step 7:	NBG_Stage_gauge_logger_pairs_2008_2010.csv & NBG_Stage_gauge-logger-pairs_2012_2017.cvs		
Description:	These methods for Needle Branch determined the correction for the stage based on the comparison between the		
	reference and electronic stage data.		
	Date: yyyy-mm-dd, Date of collection		
	Ref_stage_ft: Reference stage (ft)		
	Station_stage_ft: Electronic Stage (ft)		
	Dif_ft: Difference: Electronic Stage- Reference stage (ft) WY: Water year		
	Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed.		
	Ref stage m: Reference stage (m)		
	Station_stage_m: Electronic Stage (m)		
	Dif_m: Difference: Electronic Stage- Reference stage (m)		
Stage Correction:	Period: 2006- 2017		
Stage Correction.	Correction:Stage _C =(Stage _µ -b)/m, m=0.9845 b=0.0549		
Description:	Stage _C is corrected stage, Stage _U is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage.		
Step 8:	NBG_Stage_2006_2017.csv		
Description:	Date: yyyy-mm-dd		
	Time: 00:00:00 AM or PM		
	Stage_ft: stage (ft)		
	Stage_m: stage (m)		
Step 9:	NBG_10_Q_minute_data_2006-2017.csv Date: yyyy-mm-dd		
Description:	Time: 00:00:00, 24- hour clock		
	Stage_ft: Raw uncorrected stage (ft)		
	Stage10correc1_ft: Corrected stage (ft)		
	Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s)		
	Q_10_corr1_cfs: Discharge calculated based on corrected stage and rating curve (ft ³ /s)		
	Stage_m: Raw uncorrected stage (m)		
	Stage10correc1_m: Corrected stage(m)		
	Q_10_raw_cms: Discharge calculated based on raw stage and rating curve (m ³ /s)		
	Q_10_corr1_cms: Discharge calculated based on corrected stage and rating curve (m ³ /s)		
Step 10: Description:	NBG_daily_Q_data_2006-2017.csv Date: yyyy-mm-dd		
	Stage_raw_ft: Raw uncorrected stage (ft)		
	Stagecorrec1_ft: Corrected stage (ft)		
	Qraw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s)		
	Qcorr1_cfs: Discharge calculated based on corrected stage and rating curve (ft ³ /s)		
	Stage_raw_m: Raw uncorrected stage (m)		
	Stagecorrec1_m: Corrected stage (m)		
	Qraw_cms: Discharge calculated based on raw stage and rating curve (m ³ /s)		
	Qcorr1_cms: Discharge calculated based on corrected stage and rating curve (m ³ /s)		

All were considered reliable. Date: syy-mm.dd, Date of collection Q_fiftered: 1 (included): 0 (not included) Stage1, 1: Electronic stage (ft) Stage2, m: Electronic stage (ft) Q_cris: Uscharge (ft/s) Stage2, m: Electronic stage (ft) Q_cris: Uscharge (ft/s) Stage2, m: Electronic stage (ft) Q_cris: Uscharge (ft/s) Stage1, m: Reference stage (ft) Q_cris: Uscharge (ft/s) Stage1, m: Reference stage (ft) Stadard Errors (St) Standard Errors (St) Station_stage_ft: Electronic Stage (Athe Description: Note: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (ft) Station_stage_ft: Electronic Stage (Athe Station_stage_ft: Electronic Stage (Athe Station_stage_ft: Stage(Stage_Stage) bold Dift: Difference: Electronic Stage (Athe Station_stage_ft: S	Step 8:	DCG_rating_2018.csv
Date: yyyy-mn-dd, Date of collection Q_fittered:: 1 (included): 0 (not included) Stage1_1t: References stage (ft) Q_fittered:: 1 (included): 0 (not included) Stage1_n:: Reference stage (ft) Q_most Discharge (m/%) Rating Curve: Q_most Discharge (m/%) Contributions & Control (Control (Description:	
Q_filteriorQ_filteriorI (included): 0 (not included)Stage 2, ft: Electronic stage (ft)Stage 2, ft: Electronic stage (ft)Stage 1, ft: Ederence stage (ft)Stage 1, ft: Ederence stage (ft)Stage 2, ft: Electronic stage (ft)Q_cms: Discharge (m*)s)Description:H_istage 1, ft: Ederence stage (ft)Coefficients 3Stage 2, ft: Stage 1, ft: Stage in eft and 0 is discharge in efsCoefficients 4Coefficients 4Standard Errors (St)Standard Errors (St)Stage 1, ft: Ederence stage (ft)These methods for Deer Creek determined the correction for the stage based on the comparison between the reference and electronic Stage (ft)Description: <td></td> <td></td>		
Singel_ft: Reference stage (ft) Stage2_ft: Electronic stage (ft) Stage2_ft: Electronic stage (ft) Octom Stage1_m: Reference stage (m) Stage1_m: Reference stage (m) Octom Octom Octom Description: Octom Octom Standard Errors (St): Stage Correction: Description: Description: Stage Correction: Stage Correction: Ref_stage_ft: Reference stage (ft) Stage Correction: Description: Stage Correction: Pacting Stage (Stage) Stage (Stage		
Singe2_1: Electronic stage (f) Q_cfs: Discharge (f*)s) Stage2_m: Electronic stage (m) Stage2_m: Electronic stage (m) Q=0.41/95 Description: H is stage in feet and Q is discharge in cfs Coefficients & Standard Errors (be) Stage Correction: H is stage in feet and Q is discharge in cfs Coefficients & stage (n) Standard Errors (be) Standard Errors (be) Standard Errors (be) Stage Correction: H is stage in feet and Q is discharge in cfs Coefficients & Stage (f) Standard Errors (be) Stage Correction: Stage Correction: Stage Correction: Stage Correction: Stage Correction: Stage Correction: Coefficients Stage (f) Stage Correction: Stage Correction: Coefficients Electronic Stage Reference stage (n) Dif_f: Difference: Electronic Stage Reference stage (m) Stage Correction: Coefficient: Stage Correction: Stage Correction: Stage (Corection: <		
Q_ds: Discharge (ft%) Stage1_m: Reference stage (m) Stage1_m: Reference stage (m) Q_ums: Discharge (m%) Description: O=0.4411 ^{bit} Description: H, is stage in text and Q is discharge in dS Coefficients & Coefficients (intercept), b Standard Errors (Se): Standard Errors (Se): Step 9: Description: Description: Coefficients: (intercept), b Value: -0.44775, 3.3786 Standard Errors (Se): Step 9: De5C_Stage_gauge-logger-pairs_2008_2010.csv & DCG_Stage_gauge-logger-pairs_2012_2017.csv These methods for Deer Creek determined the correction for the stage based on the comparison between the reference and electronic Stage data. Date: yyyy-mm:dd, Date of collection Ref_stage_m:: Reference stage (ft) W:: Water year Station_stage_ft: Electronic Stage (m) Station_stage_m:: Electronic Stage (m) Station_stage_m:: Electronic Stage (m) Station_stage_m:: Electronic Stage (m) Stage_ft: Stage_c:: Is corrected stage, 100 Station_stage_m:: Electronic Stage (m) Dif_m:: Distore:: Electronic Stage (m) Stage_ft: Stage (ft) Stage_ft: Stage (ft) Stage_ft: Stage (ft) <		
Singe1_m: Reference stage (m) Stage2_m: Electronic stage (m%)Rating Curve:Power function Comers: Discharge (m%)Rating Curve:Power function Comers: Discharge (m%)Coefficients & Standard Erors (Sc):Power function Coefficients & intercept), b Value: -0.44175 3.0796 Se: D048703, 0.056933Step 9: Description:Coefficients & intercept), b Value: -0.44775, 3.0796 Se: D048703, 0.056933Step 9: Description:Coefficients & intercept), b Value: -0.4477, S.0796 Se: D048703, 0.056933Step 9: Description:Coefficients & intercept), b These methods for Deer Creek determined the correction for the stage based on the comparison between the reference stage (ft) Station_stage_ft: Electronic Stage (ft) WV: Walter year Station_stage_ft: Electronic Stage (ft) WV: Walter year Station_stage_in: Electronic Stage (m) Station_stage_in: Electronic Stage (m) Description:Period: 2016-2017 Correction: Stage_is corrected stage. Stage_is is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage ind electronic stage, respectively.Step 10: Description:Coefficients is alse (m) Stage_is is tage (m) Stage_is corrected stage. Stage_is is the uncorrected stage and and not b are the slope and intercept of the relation between reference stage ind electronic stage, respectively.St		
Stage2_m: Electronic stage (m) Q_mm: Discharge (m*%) Description: Hating Curve: Description: Q_mm: Discharge (m*%) Coefficients 8: Standard Errors (se) Value:-0.4471% Value:-0.4471% Value:-0.44776.3.9706 Standard Errors (se) Description: Pack Stage_m: Reference stage (ft) Station_stage_m: Electronic Stage Reference stage (ft) WY: Water year Station_stage_is corrected stage. Stage (ft) Dif_m: Difference: Electronic Stage: Reference stage (m) Description: Defo: 2016/2017		
Q_cms:Discharge (m ³ /s) Rating Curve: Power function Description: Power function Coefficients & Standard Errors (so: Standard Errors (so: Description: Description: Description: Standard Errors (so: Description: Description: Description: State: Description: State: Description: State: Description: State: State: Description: Deference: State: Deference: Description: Deference: Description: Deference: Description: Deference: Description: Deference: Description:		
NameQ=-0, 441 ¹²⁸³ Description:H, is stage in feet and Q is discharge in dS Coefficients & Standard Errors (Se)Coefficients : a (intercep), b Value: 0.44776, 3.9766 Se: 0.047703, 0.056933Step 9: Description:COC_Stage_gauge-togger-pairs_2008_2010.csv & DCG_Stage_gauge-togger-pairs_2012_2017.csv These methods for Deer Creek determined the correction for the stage based on the comparison between the reference and electronic stage data. Date: yyyy-mm-dd, Date of collection Ref_stage_ft: Reference stage (ft) Station_stage_ft: Reference stage (ft) Dif_ft: Difference: Electronic Stage. Reference stage (ft) Dif_m: Difference: Electronic Stage (m) Electronic Stage (m) Dif_m: Difference: Electronic Stage (m) Electronic Stage. Reference stage (m)Stage Correction: Description:CoG_stage_2006_2017.csvStage Correction: Description:CoG_stage_206_2017.csvDescription:CoG_stage_206_2017.csvStage_is scorrected stage, Stage_is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Step 11: Description:CoG_stage_206_2017.csvDescription:Dif_m: Difference: Isage (m) Stage_m: Stage (m) Stage_m:		Q_cms: Discharge (m ³ /s)
Description: Q=-0.41H ³⁴⁹ Coefficients & I, is stage in feet and Q is discharge in cfs Coefficients & Coefficients: a (intercept), b Value: -0.4477.5, 3.9796 Sc: 0.048703, 0.056933 Stop 9: Description: These methods for Deer Creek determined the correction for the stage based on the comparison between the reference and electronic stage data. Description: Description: Stage Correction: Stage_::: Lectronic Stage Reference stage (m) Description: Deference::: Electronic Stage Reference stage (m) Description: Deference::: Lectronic Stage : Reference stage (m) Description: Defect Stage_:: Stage_:: Stage_: Is the uncorrected stage. respectively. Description: Defect Stage_:: Stage_: Stage_: Is the uncorrected stage and mat b are the slope and intercept of the relation between reference stage and e	Rating Curve:	
Coefficients a Standard Errors (Se):Description:Coefficients a Standard Errors (Se):Description: <td>-</td> <td></td>	-	
Standard Errors (Se): Value: -0.44775, 3.9796 Step 9: Description: Description: DCG_Stage_gauge-logger-pairs_2008_2010.csv & DCG_Stage_gauge-logger-pairs_2012_2017.csv These methods for Deer Creek determined the correction for the stage based on the comparison between the reference and electronic stage data. Date: yyyy-mm-dd, Date of collection Ref_stage_ft: Electronic Stage (ft) Station_stage_m: Electronic Stage (ft) WY: Water year Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (m) Dif_m: Difference: Electronic Stage and (m) Dif_m: Difference: Stage (m) Description: Stage Correction: Stage_ci corrected stage, Stage is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively. Step 10: DCG_10	·	
See 0.048703, 0.056933 Description: DCG_Stage_gauge-logger-pairs_2008_2010.csv & DCG_Stage_gauge-logger-pairs_2012_2017.csv These methods for Deer Creek determined the correction for the stage based on the comparison between the reference and electronic stage data. Date: yyyy-mm-dd, Date of collection Ref_stage_ft: Reference stage (ft) Dif_rt: Difference: Electronic Stage (n) Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (m) Station_stage_m: Electronic Stage (m) Dif_m: Difference: Electronic Stage (m) Dif_m: Difference: Electronic Stage and lectronic stage and mand b are the slope and intercept of the relation between reference stage (m) Stage Correction: Description:		
Description: These methods for Deer Creek determined the correction for the stage based on the comparison between the reference and electronic stage data. Date: yyyy-mm-dd, Date of collection Ref_stage_ft: Reference stage (ft) Station_stage_ft: Electronic Stage (ft) Dif :ft: Difference: Electronic Stage (ft) Station_stage_m: Electronic Stage (ft) Station_stage_m: Reference stage (ft) WY: Water year Dif :ft: Difference: Electronic Stage (m) Station_stage_m: Electronic Stage (m) Station_stage_m: Electronic Stage Reference stage (m) Period: 2016-2017 Correction: Stage_collectronic Stage Reference stage (m) Stage Correction: Stage_collectronic Stage. Reference stage (m) Period: 2016-2017 Correction: Stage_collectronic stage, respectively. Stage is corrected stage, Stage is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively. Step 10: DCG_stage_2006_2017.csv Description: The stage and discharge time series were determined as follows for Deer Creek: Date: yyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_ft: tage (ft) Stage_ft: raw stage (rt) Stage formet_ft: Stage corrected (ft) Q_10_corrd_ft: Stage corrected (ft) Q_10_raw_cft: Discharge calculated based on raw stage and rating curve (Se: 0.048703, 0.056933
Stage Correction: Predex determined the correction for the stage based on the companison between the reference and electronic stage data. Date: yyyy-mm-dd, Date of collection Ref_stage_ft: Reference stage (ft) Dif_t: Difference: Electronic Stage (Reference stage (ft) WY: Water year Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (m) Station_stage_m: Electronic Stage (m) Dif_m: Difference: Electronic Stage (m) Dif_m: Difference: Electronic Stage (m) Description: Correction: Stage_cs(Stage_p-b)/m, m=0.9829,b=0.0346; Stage corrected stage, Stage_u is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively. Step 10: DCG_stage_2006_2017.csv Description: The stage and discharge time series were determined as follows for Deer Creek: Date: yyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_ft: stage (ft) Stage10: Description: Date: yyy-m-dd Time: 00:00:00 Stage10: Stage_ft: raw stage (ft) Stage_ft: raw stage (m) Stage_ft: raw stage (m) Stage10: corrected (ft) Q_1_0_corrd_ft: Stage corrected (ft) Q_10_corrd_	Step 9:	DCG_Stage_gauge-logger-pairs_2008_2010.csv & DCG_Stage_gauge-logger-pairs_2012_2017.csv
Date: yyyy-mm-dd, Date of collectionRef_stage_ft: Reference stage (ft)Station_stage_ft: Electronic Stage Reference stage (ft)WY: Water yearShovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed.Ref_stage_m: Reference stage (m)Station_stage_m: Electronic Stage (m)Dif_m: Difference: Electronic Stage (m)Station_stage_m: Electronic Stage (m)Description:Correction: Stage_corected stage (m)Stage_corected stage (m)Stage_corected stage, Stage_u is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Stage_ft: Stage (ft)Stage_ft: Stage (ft)Stage_ft: Stage (ft)Stage_ft: Stage (ft)Stage (ft)Stag	Description:	These methods for Deer Creek determined the correction for the stage based on the comparison between the
Ref_stage_ft: Reference stage (ft) Station_stage_ft: Electronic Stage (ft) Dif_ft: Difference: Electronic Stage Reference stage (ft) WY: Water year Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (m) Station_stage_m: Electronic Stage-Reference stage (m) Dif_m: Difference: Electronic Stage_Reference stage (m) Dif_m: Difference: Electronic Stage_Reference stage (m)Stage Correction: Description:Period: 2016-2017 Correction: Stage_c (Stageµ-b)/m, m=0.9829, b=0.0346; Stage_is corrected stage, Stageu is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Step 10: Description:DCG_stage_2006_2017.csv The stage and discharge time series were determined as follows for Deer Creek: Date: yyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage (ft) Stage (ft) Stage ft: Stage corrected (ft) Q_10_corrl_ft: Stage corrected (ft) Q_10_corrd_ft: Stage corrected (ft)		reference and electronic stage data.
Station_stage_ft: Electronic Stage (ft) Dif_ft: Difference: Electronic Stage- Reference stage (ft) WY: Water year Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (m) Station_stage_m: Electronic Stage Reference stage (m) Dif_m: Difference: Electronic Stage Reference stage (m) Stage Correction: Description: Correction: Stage_c=(Stageµ-b)/m, m=0.9829,b=0.0346; Stage_c is corrected stage, Stageu is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively. Step 10: DCG_stage_2006_2017.csv Description: The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_ft: Stage (ft) Stage_ft: Stage (ft) Stage_ft: Stage (ft) Stage_ft: Stage (ft) Stage_ft: raw stage (ft) Stage=10correc1_ft: Stage corrected (ft) Q_10_crm_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage_ft: Discharge calculated based on raw stage and rating (m ³ /s)		
Dif_ft: Difference: Electronic Stage. Reference stage (ft) WY: Water year Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m:: Reference stage (m) Station_stage_m:: Electronic Stage. Reference stage (m) Station_stage_m:: Electronic Stage. Reference stage (m) Station_stage_m:: Electronic Stage. Reference stage (m) Stage Correction: Period: 2016-2017 Correction:: Stage.c=(Stage_u-b)/m, m=0.9829,b=0.0346; Stage.cis corrected stage, Stage_u is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively. Step 10: DCG_stage_2006_2017.csv Description: The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage (ft) Stage (m) Stage (ft) Stage (m) Stage (ft) Stage (ft) Stage (ft		
WY: Water year Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Reference stage (m) Station_stage_m: Electronic Stage (m) Dif_m: Difference: Electronic Stage. Reference stage (m) Period: 2016-2017 Correction: Stage_c=(Stage_b)/m, m=0.9829,b=0.0346; Stage Correction: Description: Det : yyyy-mm-dd Time : 00:00:00		
Shovel: 1: post sediment removal; 2: pre sediment removal; 3: instances when sediment was not removed. Ref_stage_m: Electronic Stage (m) Station_stage_m: Electronic Stage (m) Description:Stage Correction: Description:Period: 2016-2017 Correction: Stage_C (Stage_u-b)/m, m=0.9829,b=0.0346; Stage_ is corrected stage, Stage_u is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Step 10: Description:DCG_stage_2006_2017.csv The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_m: Stage (ft) Stage_m: Stage (ft) Stage_m: Stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
Ref_stage_m: Reference stage (m) Station_stage_m: Electronic Stage (m) Dif_m: Difference: Electronic Stage. Reference stage (m)Stage Correction: Description:Period: 2016-2017 Correction: Stage_c (Stageµ-b)/m, m=0.9829,b=0.0346; Stage_c is corrected stage, Stage_u is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Step 10:DCG_stage_2006_2017.csv The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_ft: Stage (ft) Stage_ft: Stage (ft) Stage1correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Stage_m: raw stage (m)Description:Date: yyyy-mm-dd Time: 00:00:00 Stage_ft: raw stage (ft) Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Stage_m: raw stage (m)Stage_10_correc1_m: Stage (m) Stage_m: raw stage (m)Stage_orn: raw stage (m) Stage_ft: raw stage (m)		
Station_stage_m: Electronic Stage (m)Dif_m: Difference: Electronic Stage Reference stage (m)Stage Correction:Description:Correction Stage_c=(Stageµ-b)/m, m=0.9829,b=0.0346;Stage (s corrected stage, Stageµ is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Step 10:DCG_stage_2006_2017.csv The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_m: Stage (m)Step 11:DCG_10_Q_minute_data_2006-2017.csv The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00Description:DCG_10_Q_minute_data_2006-2017.csv The stage_m: Stage (ft) Stage_ft: Taw stage (ft) Stage1ct: raw stage (ft) Stage1ct: Discharge calculated based on raw stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage_m: raw stage (m) Stage_ft: raw stage (m) Stage_ft: raw stage (m) Stage_m: raw stage (m) Stage_m: raw stage (m)		
Dif_m: Difference: Electronic Stage. Reference stage (m)Stage Correction:Period: 2016-2017Description:Correction: Stage_=(Stageµ-b)/m, m=0.9829,b=0.0346; Stage_c is corrected stage, Stageu is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Step 10:DCG_stage_2006_2017.csv The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_m: Stage (m)Step 11:DCG_10_minute_data_2006-2017.csv Time: 00:00:00Description:Date: yyyy-mm-dd Time: 00:00:00Stage_ft: raw stage (ft) Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft³/s) Q_10_corr1_cfs : f Discharge calculated based on raw stage and rating curve (ft³/s) Stage_ft: raw stage (m)Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating curve (ft³/s)		
Stage Correction: Description:Period: 2016-2017 Correction: Stage_c[Stageµ-b]/m, m=0.9829,b=0.0346; Stage_c is corrected stage, Stageu is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively.Step 10: Description:DCG_stage_2006_2017.csv The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_m: Stage (m)Step 11: Description:DCG_10_minute_data_2006-2017.csvDescription: Description:Date: yyyy-mm-dd Time: 00:00:00 Stage_ft: raw stage (ft) Stage_ft: raw stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs: fD ischarge calculated based on raw stage and rating curve (ft ³ /s) Stage_m: raw stage (m)		
Stage_c is corrected stage, Stage_u is the uncorrected stage and m and b are the slope and intercept of the relation between reference stage and electronic stage, respectively. Step 10: DCG_stage_2006_2017.csv Description: The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_m: Stage (m) DCG_10_Q_minute_data_2006-2017.csv Description: DcG_10_Q_minute_data_2006-2017.csv Description: Dtate: yyyy-mm-dd Time: 00:00:00 Stage (ft) Stage_ft: raw stage (ft) Stage_ft: raw stage (ft) Stage11: Oddetter (ft) Out: yyy-mm-dd Time: 00:0:00 Stage_ft: raw stage (ft) Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs: f Discharge calculated based on raw stage and rating curve (ft ³ /s) Stage=10:correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s) Stage=10:correc1_m: Stage corrected (m)	Stage Correction:	
relation between reference stage and electronic stage, respectively. Step 10: DCG_stage_2006_2017.csv Description: The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_m: Stage (m) DCG_10_Q_minute_data_2006-2017.csv Description: Date: yyyy-mm-dd Time: 00:00:00 Stage (ft) Stage_ft: stage (ft) Stage_ft: raw stage (ft) Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs: f Discharge calculated based corrected stage and rating curve (ft ³ /s) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)	Description:	Correction: Stage _C =(Stage _µ -b)/m, m=0.9829,b=0.0346;
Step 10:DCG_stage_2006_2017.csvDescription:The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) 		Stage _C is corrected stage, Stage _U is the uncorrected stage and m and b are the slope and intercept of the
Description: The stage and discharge time series were determined as follows for Deer Creek: Date: yyyy-mm-dd Time: 00:00:00 AM or PM Stage_ft: Stage (ft) Stage_m: Stage (m) DCG_10_Q_minute_data_2006-2017.csv Description: Det : yyyy-mm-dd Time: 00:00:00 Stage_ft: raw stage (ft) Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs :f Discharge calculated based on raw stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating curve (ft ³ /s) Outper Correct_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		relation between reference stage and electronic stage, respectively.
Date: yýyy-mm-ddTime: 00:00:00 AM or PMStage_ft: Stage (ft)Stage_m: Stage (m)Step 11:DCG_10_Q_minute_data_2006-2017.csvDescription:Date : yyyy-mm-ddTime : 00:00:00Stage_ft: raw stage (ft)Stage10correc1_ft: Stage corrected (ft)Q_10_corr1_cfs: f Discharge calculated based on raw stage and rating curve (ft³/s)Q_10_corr1_cfs: f Discharge calculated based on raw stage and rating curve (ft³/s)Stage10correc1_m: Stage (m)Stage10correc1_m: Stage corrected (m)Q_10_raw_cms: Discharge calculated based on raw stage and rating (m³/s)	Step 10:	DCG_stage_2006_2017.csv
Time: 00:00:00 AM or PMStage_ft: Stage (ft)Stage_m: Stage (m)Step 11:DCG_10_Q_minute_data_2006-2017.csvDescription:Date : yyyy-mm-ddTime: 00:00:00Stage_ft: raw stage (ft)Stage10correc1_ft: Stage corrected (ft)Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft³/s)Q_10_corr1_cfs :f Discharge calculated based corrected stage and rating curve (ft³/s)Stage_m: raw stage (m)Stage10correc1_m: Stage corrected (m)Q_10_raw_cms: Discharge calculated based on raw stage and rating (m³/s)	Description:	
Stage_ft: Stage (ft) Stage_m: Stage (m)Step 11:DCG_10_Q_minute_data_2006-2017.csvDescription:Date : yyyy-mm-dd Time : 00:00:00Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) 		
Stage_m: Stage (m)Step 11:DCG_10_Q_minute_data_2006-2017.csvDescription:Date : yyyy-mm-ddTime : 00:00:00Stage_ft: raw stage (ft)Stage10correc1_ft: Stage corrected (ft)Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft³/s)Q_10_corr1_cfs : f Discharge calculated based corrected stage and rating curve (ft³/s)Stage10correc1_m: Stage corrected (m)Q_10_raw_cms: Discharge calculated based on raw stage and rating (m³/s)		
Step 11: DCG_10_Q_minute_data_2006-2017.csv Description: Date : yyyy-mm-dd Time : 00:00:00 Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs :f Discharge calculated based corrected stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
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Time : 00:00:00 Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs :f Discharge calculated based corrected stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
Stage_ft: raw stage (ft) Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs :f Discharge calculated based corrected stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)	Description.	
Stage10correc1_ft: Stage corrected (ft) Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs :f Discharge calculated based corrected stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
Q_10_raw_cfs: Discharge calculated based on raw stage and rating curve (ft ³ /s) Q_10_corr1_cfs :f Discharge calculated based corrected stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
Q_10_corr1_cfs :f Discharge calculated based corrected stage and rating curve (ft ³ /s) Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
Stage_m: raw stage (m) Stage10correc1_m: Stage corrected (m) Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)		
		Stage10correc1_m: Stage corrected (m)
		Q_10_raw_cms: Discharge calculated based on raw stage and rating (m ³ /s)
Q_10_corr1_cms: Discharge calculated based corrected stage and rating curve (m ³ /s)		Q_10_corr1_cms: Discharge calculated based corrected stage and rating curve (m ³ /s)

Step 11:	DCG_daily_Q_data_2006-2017.txt The stage and discharge time series were determ	ined as follows for Deer Creek.		
Description:	Date : yyyy-mm-dd			
	Stageraw_ft : Raw uncorrected stage (ft)			
	Stagecorrec1_ft : Stage corrected (ft)			
	Qraw_cfs : Discharge calculated based on raw sta	age and rating curve (ft ³ /s)		
	Qcorr1_cfs : Discharge calculated based correcte	d stage and rating curve(ft ³ /s)		
	Stageraw_m : Raw uncorrected stage (m)			
	Stagecorrec1_m : Stage corrected (m)			
	Qraw_cms : Discharge calculated based on raw s			
	Qcorr1_cms : Discharge calculated based correct	ed stage and rating curve (m ³ /s)		
Sampling Area And Frequency:	In this contemporary period, 2006 to 2017 (12 water years), data were collected at 10-minute intervals, including three to eight years of pre-harvest data rating curves were developed. Based 40 to 55 stage-discharge data points collected for each watershed. Hydrologic units for these areas are as follows: Alsea River, HUC8: 17100205 Drift Creek, HUC10: 1710020503 Middle Drift Creek, HUC12: 171002050302 Flynn Creek, HUC14: 17100205030201 Deer Creek, HUC14: 17100205030201 Needle Branch, Creek HUC 14: 17100205030202			
Sampling Description:	Effects of forest harvest were calculated following successional streamflow response to forest cutting Resources Research, 40(5), 1–19. https://doi.org/	g and regrowth in the northwest and		
Sampling Description:	Perry, T. D., & Jones, J. A.(2017). Summer streamflow deficits from regenerating Douglas-fir forest in the Pacific Northwest, USA. Ecohydrology, 10(2), 1–13. https://doi.org/10.1002/eco.1790 Special Collections and Archives. (2020) Alsea Watershed Study 1959-1972 [Data Set] Oregon State University. https://doi.org/10.7267/c821gr90d			
	Souder, J. (2020). Alsea Watershed Study 1959-1972 (Version 1) [Dataset]. Oregon State University. https:// doi.org/10.7267/c821gr90d			
Data Set Usage Rights				
Access Control:				
Auth System:		knb		
Order:		allowFirst		
Allow:		[read]	public	