



Stream Bioassessment (LVS, RPS, HA, PhysChem) Calculator Version 1.0

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Division of Environment Assessment
and Restoration

July 2022

Per DEP-SOP-001/01, FS 7320. Stream and River Linear Vegetation Survey (LVS) Method Effective date 4/16/2018

Per DEP-SOP-001/01, FS 7230 Rapid Periphyton Survey (RPS) Sampling Effective date 4/16/2018

Per DEP-SOP-001/01, FT 3100. Aquatic Habitat Characterization Effective date 4/16/2018

Per DEP-SOP-001/01, FT 3001. Physical/Chemical Characterization Effective date 4/16/2018



Rapid Periphyton Survey (RPS) Field Sheet

FD 9000-25

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet										
Site:					County:		Date:		Investigators:	
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated	Canopy Cover	STORET Station Number:
0	1				60	1				Secchi depth Estimated?
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
10	1				70	1				# points ranked 4-6 total points assessed % points ranked 4-6
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
20	1				80	1				Check accompanying data collected at same site/date. Algal mat sample Linear Veg Survey Habitat Assessment SCI/Biorecon Water sample RQ-
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
30	1				90	1				Algal Thickness Rank N rough, no algae, slimy, algae up to 1mm 3 >1mm - 6mm 4 >6mm - 20mm 5 >20mm - 10 cm 6 >10 cm
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
40	1				100	1				Record "N" and check "Estimated" for points deeper than the Secchi depth; algae are presumed absent. Check "Estimated" if thickness estimated for deep points which can be seen but not reached. Record "X" for points shallower than Secchi depth for which substrate cannot be seen or reached with the hand. No estimated rank. Record canopy cover as the number of small densimeter quadrants (out of 96) that HAVE canopy cover. Measure facing upstream at point 4, 5, or 6. Collect algal mat sample following DEP SOP FS 7240 if the percentage of total sampled points with a thickness rank of 4, 5, or 6 is >20%.
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				
50	1					1				
	2					2				
	3					3				
	4					4				
	5					5				
	6					6				
	7					7				
	8					8				
	9					9				



Stream/River Habitat Assessment (HA) Field Sheet *FD 9000-05*

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet

SAMPLING AGENCY:		STORE STATION NUMBER:	DATE (MM/DD/YYYY):	RECEIVING BODY OF WATER:
REMARKS:	COUNTY:	LOCATION:	FIELD ID/NAME:	

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present (snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock)	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity _____	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Substrate Availability _____	Greater than 30% major productive habitat present at site 20 19 18 17 16	16% to 30% major productive habitat, by aerial extent 15 14 13 12 11	6% to 15% major productive habitat 10 9 8 7 6	Less than 5% major productive habitat 5 4 3 2 1
Water Velocity _____	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec 20.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	Max. observed at typical transect: >0.1 to 0.25 m/sec 0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	Max. observed at typical transect: 0.05 to 0.1 m/sec 0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec <0.05-0.04 0.03 0.01 <0.01 5 4 3 2 1
Habitat Smothering _____ ----- Primary Score _____	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae. 20 19 18 17 16	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae. 15 14 13 12 11	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth). 10 9 8 7 6	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation. 5 4 3 2 1
Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization _____	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	Bankfull > 60% of bank height. Slope of bank < 60° from bankfull to top of bank. Bankfull is within or above the woody root zone with few raw, eroded areas.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas.
Right Bank _____ Left Bank _____	10 9	8 7 6	5 4	3 2 1
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
Right Bank _____ Left Bank _____	10 9	8 7 6	5 4	3 2 1
Riparian Zone Vegetation Quality	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
Right Bank _____ Left Bank _____ ----- Secondary Score _____	10 9	8 7 6	5 4	3 2 1

TOTAL SCORE

Date:	Analyst:	Signature:
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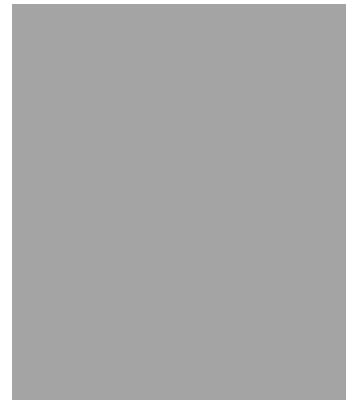
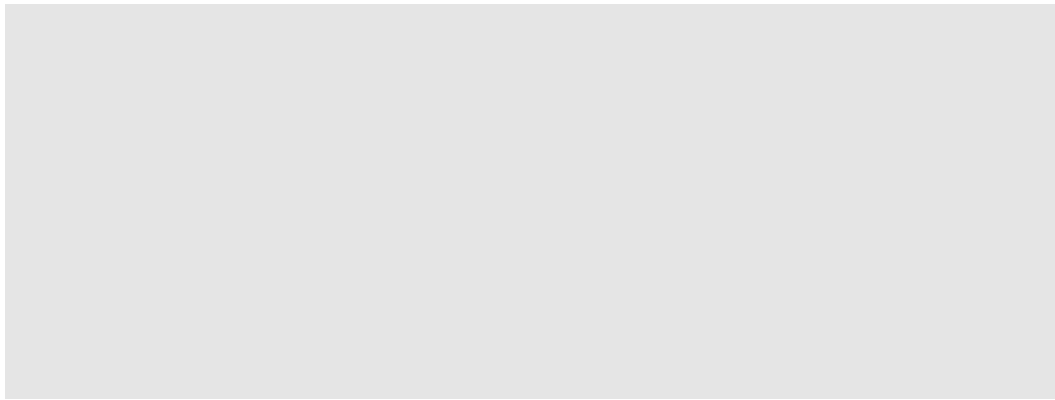
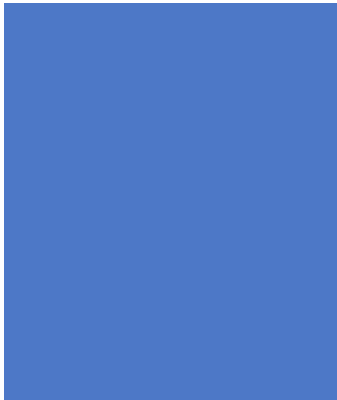
Physical/ Chemical Characterization (PhysChem) Field Sheet

FD 9000-03

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet											
SAMPLE ID _____		ORG ID _____		LATITUDE _____							
COUNTY _____		STORET # _____		LONGITUDE _____							
DATE _____		TIME _____		SAMPLING AGENCY _____							
SITE NAME _____				RECEIVING BODY OF WATER _____							
RIPARIAN ZONE / STREAM FEATURES											
PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category): Forest/Natural <input type="text"/> Silviculture <input type="text"/> Field/Pasture <input type="text"/> Agricultural <input type="text"/> Residential <input type="text"/> Commercial <input type="text"/> Industry <input type="text"/> Other (Specify) <input type="text"/>								Landscape Development Intensity Index (LDI) <input type="text"/>			
Local Watershed Erosion (select one): <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy				Typical Width (m) Depth (m)/Velocity (m/sec) Transect <input type="text"/> m wide <input type="text"/> m/s <input type="text"/> m/s <input type="text"/> m/s <input type="text"/> m deep <input type="text"/> m deep <input type="text"/> m deep							
Local Watershed NPS Pollution: <input type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy											
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <input type="text"/> Right Bank: <input type="text"/>				Hydrologic Modification Score (per FT 3101) <input type="text"/>							
High Water Mark: <input type="text"/> + <input type="text"/> = <input type="text"/> (m) (above present water level) (present depth) (above bed)				Artificially Impounded <input type="checkbox"/> Yes <input type="checkbox"/> No							
Artificially <input type="checkbox"/> No <input type="checkbox"/> Mostly recovered, more sinuous Channelized: <input type="checkbox"/> Some recovery <input type="checkbox"/> Recent, severe				Canopy Cover % <input type="checkbox"/> Open <input type="checkbox"/> Lightly Shaded (11-45%) <input type="checkbox"/> Heavily Shaded <input type="checkbox"/> Moderate Shaded (46-80%)							
SEDIMENT / SUBSTRATE											
Sediment Oils <input type="checkbox"/> Absent <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Profuse		Sediment Odors <input type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Chemical <input type="checkbox"/> Anaerobic <input type="checkbox"/> Other (Specify): _____		Smothering of Substrate Sand Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Silt Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Algae Smothering: None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/>							
SUBSTRATE TYPE Assessment Tool: <input type="checkbox"/> SCI <input type="checkbox"/> RPS <input type="checkbox"/> LVS <input type="checkbox"/> LCI <input type="checkbox"/> BioRecon				WATER QUALITY							
				Depth (M) Temp. (°C) pH (SU) D.O. (MGL) D.O. Sat (%) Cond. (µMHO/CM) Salinity (PPT) SECCH (M)							
Woody Debris (Snags) <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Undercut Banks / Roots <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Leaf Packs or Mat <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Aquatic Vegetation <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Rock or Shell Rubble.. <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Sand..... <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Mud / Muck / Silt <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Other <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> Other <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>				Meter ID: <input type="text"/>							
				Water Odors Normal <input type="checkbox"/> Petroleum <input type="checkbox"/> Sewage <input type="checkbox"/> Chemical <input type="checkbox"/> Other <input type="checkbox"/>		Water Surface Oils Normal <input type="checkbox"/> Sheen <input type="checkbox"/> Globes <input type="checkbox"/> Slick <input type="checkbox"/> Other <input type="checkbox"/>					
				Water Sample Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No Lot Number: _____ Exp: _____		Color Tannic <input type="checkbox"/> Green (Algae) <input type="checkbox"/> Clear <input type="checkbox"/> Other (Specify) <input type="text"/>					
				Algae Sample Taken? <input type="checkbox"/> Yes <input type="checkbox"/> No Sample Preserved? <input type="checkbox"/> Yes <input type="checkbox"/> No Lot Number: _____ Exp: _____		Clarity Clear <input type="checkbox"/> Slightly Turbid <input type="checkbox"/> Turbid <input type="checkbox"/> Opaque <input type="checkbox"/>					
ABUNDANCE Not Obs. Rare Common Abundant				System Type: Stream <input type="checkbox"/> Lake <input type="checkbox"/> Wetland <input type="checkbox"/> Estuary <input type="checkbox"/> Other(Specify) <input type="text"/>							
Periphyton: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Fish: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Aquatic Plants: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		Iron/Sulfur Bacteria: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		AMBIENT FIELD CONDITIONS / NOTES: <input type="checkbox"/> The antecedent hydrologic conditions have been met to my best knowledge.			
SAMPLING TEAM _____				SIGNATURE : _____		DATE : _____					



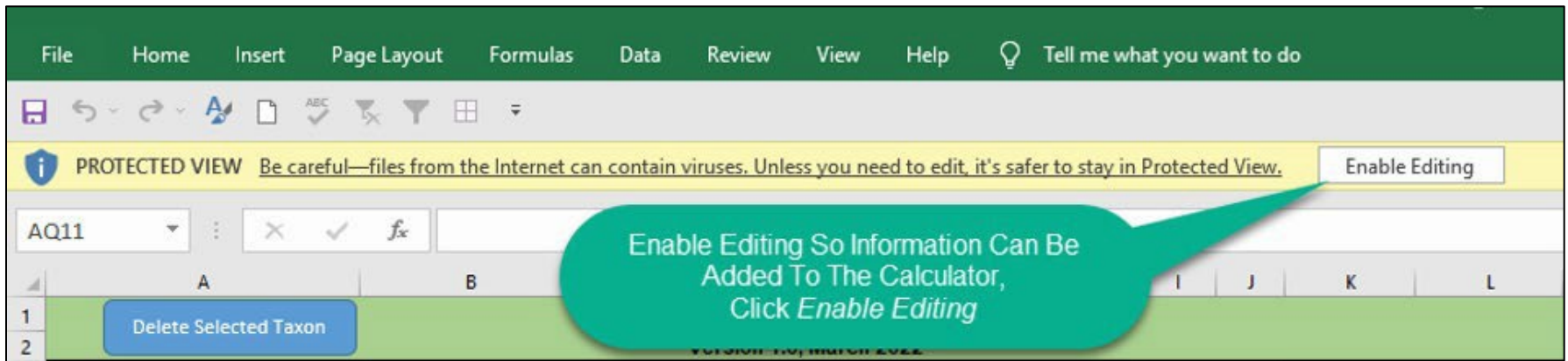
Open The Calculator





Security Warning

Enable Editing

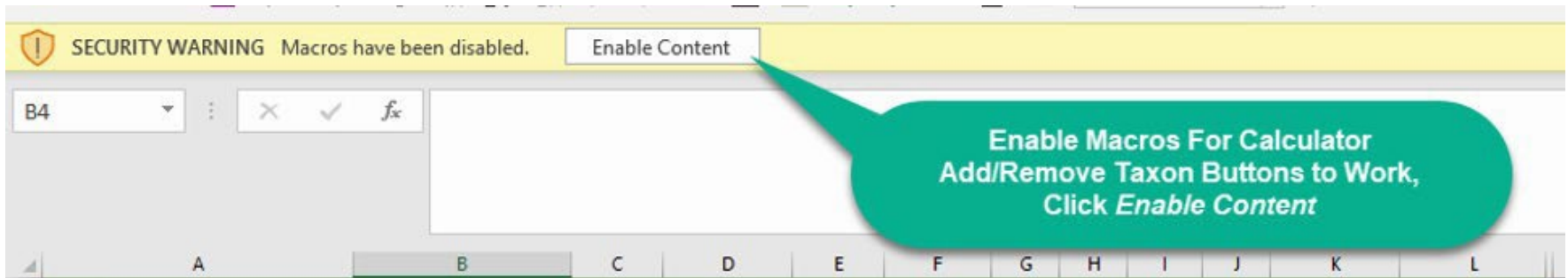


Note: Enable editing only needs to be done one time per workbook. If the workbook is saved after editing is enabled the user will not be prompted when opening the workbook in the future.




Security Warning Continued

Enable Macros



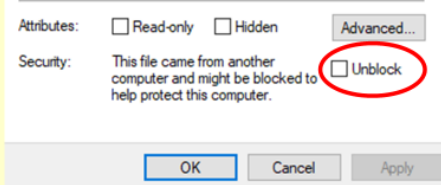


Security Macros

 SECURITY RISK [Microsoft has blocked macros from running because the source of this file is untrusted.](#) [Learn More](#)

If you receive this error after “Enabling Content”, please follow the directions below to make this a trusted file.

1. Go to the folder where you copied the calculator and right click on the file. Then go to the Properties tab. Near the bottom of the pop-up check the unblock button.

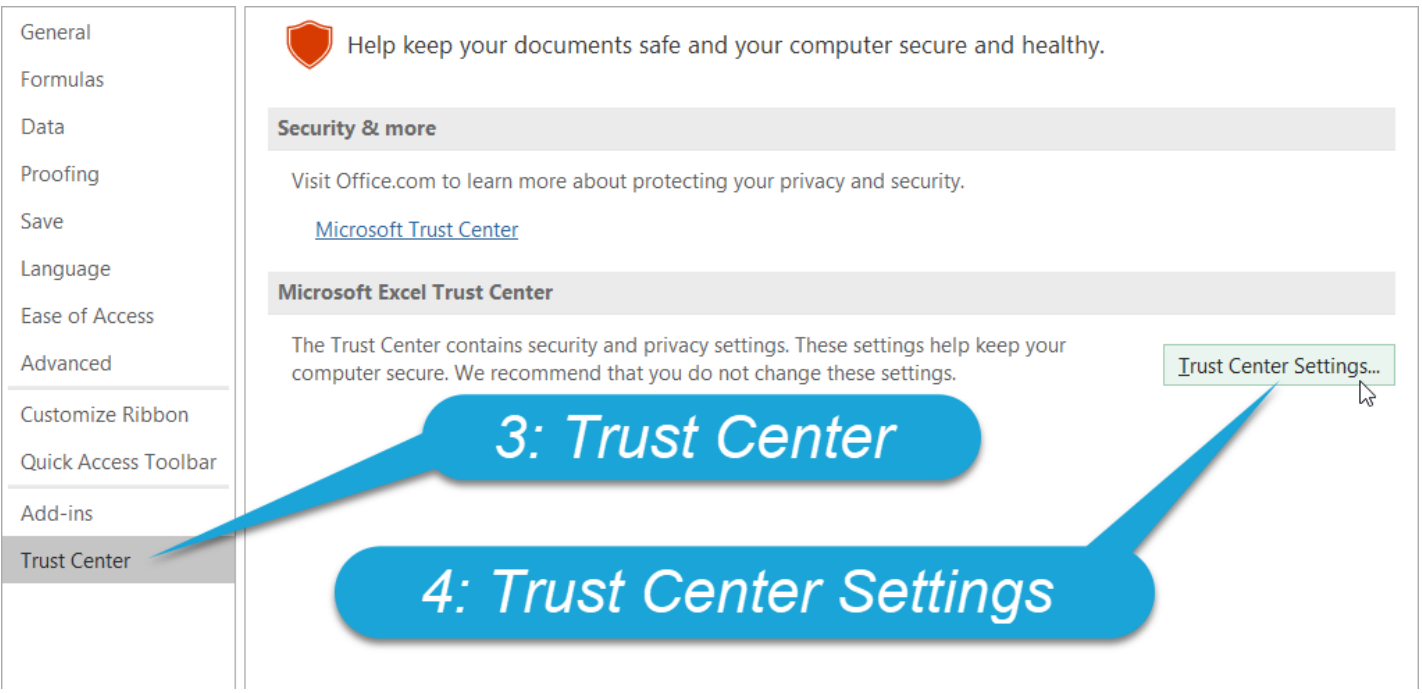
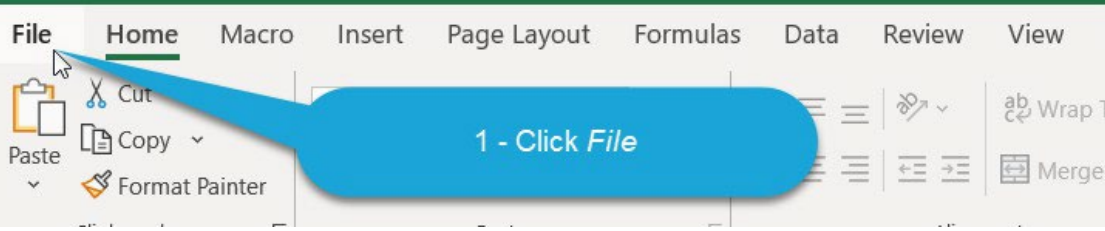


1. You can now double click on the file to use.
2. If the file opens as read only, click the “Enable Content” button at the top near the Security Warning.
3. Make sure to save the file after enabling content.



Adjusting Macro Setting

- Home
- New
- Open
- Info
- Save
- Save As
- Save as Adobe PDF
- Print
- Share
- Export
- Publish
- Close
- Options 1
- Account
- Feedback
- Options 0





Adjusting Macro Setting Cont.

Trust Center

Trusted Publishers
Trusted Locations
Trusted Documents
Trusted Add-in Catalogs
Add-ins
ActiveX Settings
Macro Settings
Protected View
Message Bar
External Content
File Block Settings
Privacy Options

Macro Settings

- Disable all macros without notification
- Disable all macros with notification
- Disable all macros except digitally signed macros
- Enable all macros (not recommended; potentially dangerous code can run)

Developer Macro Settings

- Trust access to the VBA project object model

Click Macro Settings
Then choose the "Disable all macros with notification" radio button and check "Trust access to VBA project object model"

Note: Depending on the version of Excel you are running, the options in the Macro Settings dialog box may be different. If you are running Excel 2019 choose the Macro Setting "Disable VBA macros with notification".



Introduction to the Calculator Worksheets



1.Sample_Info, Worksheet #1

Site, Sample Information	
Sampling Entity	Jefferson County DEP
WIN Organization ID	21FLJEFF
Sampler 1 Name	Eric Boucher
Sampler 2 Name	Bob Too
List All Samplers Proficient* in the HA Method	Eric Boucher
Sample Date	7/7/2022
Waterbody Name	Caney Creek
WIN Sampling Location Description	Caney Creek at US 90
WIN Station ID	JeffCaney90
Latitude (Decimal Degrees)	30.53251
Longitude (Decimal Degrees)	-83.95074
County	Jefferson
Receiving Body Of Water:	Lake Miccosukee
LVS Completed by	Eric Boucher
HA Completed by	Bob Too
RPS Completed by	Bob Too
Water Sample Collected	Yes
Algal Sample Collected	Yes
SCI/BioRecon Collected	Yes - SCI
Site Visits Comments	Abundant beaver chews and otter scats.

The values entered in this worksheet will be used to populate the same values in the subsequent worksheets.



2.LVS_Calculator, Worksheet #2

Delete Selected Taxon															Linear Vegetation Survey Calculator Version 1.0, July 2022			LVS Sample Result		Fail
Waterbody:		Caney Creek at US 90					Sample Date:			7/7/2022					Mean CofC:		2.44		Fail	
WIN/STORE ID:		JeffCaney90					County:			Jefferson					%FLEPPC:		55.10%		Fail	
Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation?		Yes		Data Entered By:			Bob Too					Data Reviewed By:								
				Date Data Entered:			7/8/2022					Date Reviewed:								
Use "P" to denote taxa presence, "D" to denote dominate taxa, or "C" to denote co-dominant taxa.																				
Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland Status	Nativity	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Occurrence	Occurrence of Herbaceous Wetland Taxon	Quality Check (QC) Performed By		
<i>Altermanthera philoxeroides</i>		0	Category 2	OBL	Exotic	P	C	D	C	P	C	P	D	C	C	10	10			
<i>Bacopa caroliniana</i>		4.5	-	OBL	Native		P		P	P			P	P	P	6	6			
<i>Bacopa monnieri</i>		3.5	-	OBL	Native											0	0			
<i>Bidens mitis</i>		4.5	-	OBL	Native											0	0			
<i>Boehmeria cylindrica</i>		5	-	OBL	Native	P		P		P	P		P		P	6	6			
<i>Centella asiatica</i>	<i>Centella erecta</i>	1.92	-	FACW	Native											0	0			
<i>Ceratophyllum demersum</i>		4.16	-	OBL	Native									P		1	1			
<i>Chara</i>		3.9	-	OBL	Native											0	0			
<i>Cicuta maculata</i>	<i>Cicuta mexicana</i>	4.54	-	OBL	Native				P		P				P	4	4			
<i>Cladium jamaicense</i>		8	-	OBL	Native				P	D	P	P		P		5	5			
<i>Colocasia esculenta</i>		0	Category 1	OBL	Exotic	D	C	P	C	P	C	D	P	C	C	10	10			
<i>Commelina diffusa</i>		2.02	-	FACW	Exotic											0	0			
<i>Commelina virginica</i>		4.67	-	FACW	Native											0	0			
<i>Crinum americanum</i>		9	-	OBL	Native											0	0			
<i>Diodia virginiana</i>		3	-	FACW	Native											0	0			
<i>Eichhornia crassipes</i>		0	Category 1	OBL	Exotic	P	P			P	P	P		P	P	7	7			

The user will enter taxon observations from the LVS Field Sheet (FD 9000-32) into this worksheet. The Mean CofC and %FLEPPC scores are automatically calculated.



3.LVS_Taxa, Worksheet #3

<div style="border: 1px solid black; border-radius: 10px; padding: 5px; display: inline-block; background-color: #4f81bd; color: white; font-weight: bold;">Add Taxon</div>		To Add Taxon to Calculator: Select taxon under column A on THIS Sheet, Then click Add Taxon Button			
Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland Status	Nativity
Abelmoschus	-	-	-	-	-
Abelmoschus esculentus	-	-	-	-	-
Abelmoschus manihot	-	-	-	-	-
Abelmoschus moschatus	-	-	-	-	-
Abies	-	-	-	-	-
Abies balsamea	-	-	-	-	-
Abietaceae	-	-	-	-	-
Abildgaardia	-	-	-	-	-
Abildgaardia ovata	-	-	-	FACW	Native
Abronia	-	-	-	-	-
Abronia alpina	-	-	-	-	-
Abronia ameliae	-	-	-	-	-
Abronia angustifolia	-	-	-	-	-
Abronia bigelovii	-	-	-	-	-
Abronia carletonii	-	-	-	-	-
Abronia elliptica	-	-	-	-	-
Abronia fragrans	-	-	-	-	-
Abronia gracilis	-	-	-	-	-
Abronia insularis	-	-	-	-	-

Taxa not on the LVS Calculator worksheet can be added from this worksheet.

This is the same taxa list as the taxa table in the Department's Statewide Biological Database (SBIO2).



4.RPS Worksheet #4

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet										
Site:					County:		Date:		Investigator:	
Caney Creek at US 90					Jefferson		7/7/2022		Bob Too	
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated (Y/N)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated (Y/N)	Canopy Cover	WIN/STORET Station ID:
										JeffCaney90
0	1				60	1				Secchi depth
	2					2				Estimated?
	3					3				
	4					4				# points ranked 4-6
	5					5				total points assessed
	6					6				% points ranked 4-6
	7					7				RPS Result
	8					8				No Observations
	9					9				
10	1				70	1				Check accompanying data collected at same site/date.
	2					2				Algal mat sample
	3					3				Linear Veg Survey
	4					4				Habitat Assessment
	5					5				SCI/Biorecon
	6					6				Water sample
	7					7				
	8					8				
	9					9				

The user will enter taxon observations from the RPS Field Sheet (FD 9000-25) into this worksheet. The percentage of points ranked 4-6 is automatically calculated.



5.HA_Stream_River Worksheet #5

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet				
SAMPLING AGENCY:		WIN/STORET STATION ID:	DATE (MM/DD/YY):	RECEIVING BODY OF WATER:
Jefferson County DEP		JeffCaney90	7/7/2022	Lake Miccosukee
REMARKS:	COUNTY:	LOCATION:		FIELD ID/NAME:
	Jefferson	Caney Creek at US 90		
Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity: 4	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
				4
Substrate Availability: 15	Greater than 30% major productive habitat present at site	16% to 30% major productive habitat, by aerial extent	6% to 15% major productive habitat	Less than 5% major productive habitat
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
		15		
Water Velocity: 13	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec	Max. observed at typical transect: >0.1 to 0.25 m/sec	Max. observed at typical transect: 0.05 to 0.1 m/sec	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec
	≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	<0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1

The user will enter habitat component values from the HA Field Sheet (FD 9000-05) into this worksheet. The primary, secondary and total HA scores are automatically calculated.



6.PhysChem Worksheet #6

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet							
SAMPLE ID	<input type="text"/>	ORG ID	<input type="text" value="21FLJEFF"/>	LATITUDE	<input type="text" value="30.53251"/>		
COUNTY	<input type="text" value="Jefferson"/>	WIN #	<input type="text" value="JeffCaney90"/>	LONGITUDE	<input type="text" value="-83.95074"/>		
DATE	<input type="text" value="7/7/2022"/>	TIME	<input type="text"/>	SAMPLING AGENCY	<input type="text" value="Jefferson County DEP"/>		
SITE NAME	<input type="text" value="Caney Creek at US 90"/>						
FIELD ID/NAME	<input type="text"/>	RECEIVING BODY OF WATER	<input type="text" value="Lake Miccosukee"/>				
RIPARIAN ZONE / STREAM FEATURES							
PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category):							
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify Above)
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
							Landscape Development Intensity Index (LDI)
							<input type="text"/>
Local Watershed Erosion (select one):				<input type="checkbox"/> None	<input type="checkbox"/> Slight	<input type="checkbox"/> Moderate	<input type="checkbox"/> Heavy
Local Watershed NPS Pollution :				<input type="checkbox"/> No evidence	<input type="checkbox"/> Slight	<input type="checkbox"/> Moderate	<input type="checkbox"/> Heavy
Width of Riparian Vegetation (m) on Each Buffer Side				Hydrologic Modification Score (per FT 3101)			
Left Bank:	<input type="text"/>	Right Bank:	<input type="text"/>	<input type="text"/>			
High Water Mark:	<input type="text"/>	+	<input type="text"/>	=	<input type="text"/>		
(m)	(above present water level)		present depth)		(above bed)		
				Artificially Impounded			
				<input type="checkbox"/> Yes	<input type="checkbox"/> No		
				Typical Width (m) Depth (m)/Velocity (m/sec) Transect			
				<input type="text"/>	m/s	<input type="text"/>	m/s
				<input type="text"/>	m/s	<input type="text"/>	m/s
				<input type="text"/>	m/s	<input type="text"/>	m/s
				<input type="text"/>	m deep	<input type="text"/>	m deep
				<input type="text"/>	m deep	<input type="text"/>	m deep
				<input type="text"/>	m deep	<input type="text"/>	m deep
Artificially Channelized:				Canopy Cover %			
<input type="checkbox"/> No				<input type="checkbox"/> Open			
<input type="checkbox"/> Mostly recovered, more sinuous				<input type="checkbox"/> Lightly Shaded (11-45%)			
<input type="checkbox"/> Some Recovery				<input type="checkbox"/> Heavily Shaded			
<input type="checkbox"/> Recent, severe				<input type="checkbox"/> Moderate Shaded (46-80%)			

The user will enter observations from the PhysChem Field Sheet FD 9000-03 into this worksheet.



7. External BioFormat, Worksheet #7

WIN ORGANIZATION ID	WIN STATION NUMBER	STATION NAME	STATION DESCRIPTION	PRIMARY TYPE	WATERBODY NAME	LATITUDE	LONGITUDE	SAMPLE DATE	METRIC	RESULT	FIELD COMMENT	COLLECTOR	METRIC PROFICIENCY	SAMPLING ENTITY
				Stream					HA (Bank Stability - right bank)	10				
				Stream					HA (Bank Stability - left bank)	6				
				Stream					HA (Riparian Buffer Zone Width - right bank)	5				
				Stream					HA (Riparian Buffer Zone Width - left bank)	3				
				Stream					HA (Riparian Zone Vegetation Quality - right bank)	8				
				Stream					HA (Riparian Zone Vegetation Quality - left bank)	4				
				Stream					HA (Secondary Score)	42				
				Stream					Habitat Assessment Score	93				
				Stream					Avg_Col_LVS	No Observations			N/A	
				Stream					FLEPPCPot_LVS	No Observations			N/A	
				Stream					LVS_LESS_2SQM	N			N/A	
				Stream					RPS				N/A	
				Stream										

↑ Values in cells with no fill color above are referencing values in the other worksheets. These cells auto populated so they do not need to be filled out manually. Cell with BLUE fill color are editable

Submitting Bioassessment Data
 Data providers who would like to submit LVI data to help support the Department's Impaired Waters assessment can copy the auto calculated values in this worksheet into the Watershed Assessment Sections Bioassessment Data Template.
 The department is requesting external data providers who would like to submit applicable bioassessment data to help support the department's Impaired Waters assessment. Please download and complete the **Bioassessment Data Template**, available as a Microsoft Excel worksheet (.xlsx). Once the template has been completed with the required information, please submit the worksheet and any supporting documentation (field sheets, photos, etc.) by email to **Jessica Mostyn**.
 Entities submitting data to DEP must meet the applicable bioassessment proficiency demonstrations set forth on the **Bioassessment Training, Evaluation and Quality Assurance Web Page**, follow the department's Quality Assurance requirements for field activities as codified in Chapter 62-160, Florida Administrative Code (F.A.C.), and the incorporated DEP Standard Operating Procedures. For external bioassessment data to be considered as part of the assessment, data providers must be in the applicable Active status for LVI, BioRecon, SCI and/or Habitat Assessment certification at the time of sample collection. While the online RPS and LVS tests are not required, because there are currently no certifications for these methods, taking the online tests are highly recommended to show proficiency.

Bioassessment Data Template
https://publicfiles.dep.state.fl.us/DEAR/DEARweb/WAS/Bio_Data_Template_2.0.xlsx

Data providers who plan to submit stream bioassessment data to help support the Department's Impaired Waters assessment can copy the auto-calculated values in this worksheet into the Watershed Assessment Section's Bioassessment Data Template. Information regarding the Watershed Assessment Section's Bioassessment Data Template and a hyperlink to the section's website are provided in the calculator.



Using the Calculator



Adding Information To The Calculator

Note: Cells With **Blue** Fill
Color Are Editable.



Sample Info Worksheet

Organization and Personnel

Site, Sample Information	
Sampling Entity	Jefferson County DEP
WIN Organization ID	21FLJEFF
Sampler 1 Name	Eric Boucher
Sampler 2 Name	Bob Too
List All Samplers Proficient* in the HA Method	Eric Boucher

The user will enter the organization and personnel information for the sampler(s) that conducted the stream bioassessments.

Customize the Calculator:

Save a copy with the sampling entity and WIN Organization ID information populated with your organization's information.

Note: All the information in the Site Info worksheet will be used to auto-populate values in the subsequent worksheets.



Site Info Worksheet

Date, Site Attributes, & Samples Collected

Sample Date	7/7/2022	
Waterbody Name	Caney Creek	
WIN Sampling Location Description	Caney Creek at US 90	
WIN Station ID	JeffCaney90	
Latitude (Decimal Degrees)	30.53251	
Longitude (Decimal Degrees)	-83.95074	
County	Jefferson	
Receiving Body Of Water:	Lake Miccosukee	
LVS Completed by	Eric Boucher	
HA Completed by	Bob Too	
RPS Completed by	Bob Too	
Water Sample Collected	Yes	<i>Dropdown</i>
Algal Sample Collected	Yes	<i>Dropdown</i>
SCI/BioRecon Collected	Yes - SCI	<i>Dropdown</i>

Note: All the information in the Site Info worksheet will be used to auto-populate values in the subsequent worksheets.



Site Info Worksheet continued

Latitude and Longitude (Decimal Degrees)

The coordinates must be entered in decimal degrees format.

Latitude (Decimal Degrees)	30.563198
Longitude (Decimal Degrees)	-83.969362

Coordinates recorded in Degrees Minutes Second on the field sheet(s) can be converted to decimal degrees by the user with the Geographic Coordinate Converter. Enter the degrees, minutes and seconds and the decimal degree will be calculated.

Geographic Coordinate Converter				
x/y	Degrees	Minutes	Seconds	Decimal Degrees
LATITUDE	30	33	47.5128	30.563198
LONGITUDE	-83	58	9.7032	-83.969362



LVS Calculator

Top Section: LVS Vegetation Areal Coverage

The user selects, from the dropdown list, if the areal coverage of herbaceous aquatic vegetation was greater than 2 square meters.

Delete Selected Taxon						Linear Vegetation Survey Calculator			
						Version 1.0, July 2022			
Waterbody:	Caney Creek at US 90				Sample Date:	7/7/2022			
WIN/STORET ID:	JeffCaney90		County:	Jefferson		Analyst Name:	Eric Boucher		
Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation?	Required		Date Entered By:	Bob Too		Data Reviewed By:			
	Yes		Date Data Entered:	7/8/2022		Date Reviewed:			
	No								
	Required								
						Use "P" to denote taxa presence, "D" to denote dominate taxa, or "C" to denote co-dominant taxa.			

The *Delete Selected Taxon* Button Will be covered later

The user adds their name and the current date

Delete Selected Taxon						Linear Vegetation Survey Calculator			
						Version 1.0, July 2022			
Waterbody:	Caney Creek at US 90				Sample Date:	7/7/2022			
WIN/STORET ID:	JeffCaney90		County:	Jefferson		Analyst Name:	Eric Boucher		
Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation?	Yes		Date Entered By:	Bob Too		Data Reviewed By:			
			Date Data Entered:	7/8/2022		Date Reviewed:			
						Use "P" to denote taxa presence, "D" to denote dominate taxa, or "C" to denote co-dominant taxa.			

Note: The LVS CofC and % FLEPPC scores are not calculated if the areal coverage field is not "Yes". If "No" is selected the final LVS result will be "Pass".



LVS Calculator continued

Adding Taxa Observations

Use "P" to denote taxa presence, "D" to denote dominant taxa, or "C" to denote co-dominant taxa.

Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland Status	Nativity	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100
<i>Alternanthera philoxeroides</i>		0	Category 2	OBL	Exotic	P		C	P	P		P	C	C	P
<i>Bacopa caroliniana</i>		4.5	-	OBL	Native			P	P	C	C	P	P		
<i>Bacopa monnieri</i>		3.5	-	OBL	Native	P	P			P		P	P		
<i>Boehmeria cylindrica</i>		5	-	OBL	Native	P	P				P			P	C
<i>Cicuta maculata</i>	<i>Cicuta mexicana</i>	4.54	-	OBL	Native	D	C								
<i>Cladium jamaicense</i>		8	-	OBL	Native				D	C	C			P	C
<i>Eichhornia crassipes</i>		0	Category 1	OBL	Exotic	P	C	C	P					P	
<i>Saururus cernuus</i>		6.5	-	OBL	Native					P	P	D	C	C	P

Find the Taxon in Column A or its Synonym in Column B

In the corresponding Row Use "P" to denote the taxon Presence, Use "D" to denote the taxon if it was Dominant, Use "C" to denote the taxon if it was Co-dominant for each of the 10 stream sampling units.

Note: The attributes CofC Score, FLEPPC Status, Wetland Status, Nativity, associated with each taxon are provided for informational purposes.



LVS Calculator taxa

Occurrence vs. Occurrence of Herbaceous Wetland Taxon

Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland Status	Nativity	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Occurrence	Occurrence of Herbaceous Wetland Taxon
<i>Acer rubrum</i>	-	4.65	-	FACW	Native	P	P	P	P	P	P	P	P	P	P	10	0
<i>Alternanthera philoxeroides</i>		0	Category 2	OBL	Exotic	P	C	D	C	P	C	P	D	C	C	10	10
<i>Bacopa caroliniana</i>		4.5	-	OBL	Native		P		P	P			P	P	P	6	6
<i>Cladium jamaicense</i>		8	-	OBL	Native				P	D	P	P		P		5	5
<i>Colocasia esculenta</i>		0	Category 1	OBL	Exotic	D	C	P	C	P	C	D	P	C	C	10	10
<i>Ficthornia crassines</i>		0	Category 1	OBL	Exotic	P	P			P	P	P		P	P	7	7
<i>Ostrya virginiana</i>	<i>Ostrya virginiana</i>	5.91	-	UPL	Native	P				P	P	P				2	0
<i>Ricinus communis</i>	-	0	Category 2	UPL	Exotic	P						P	P			3	0

Note: All taxa denoted with a “P”, “C” or “D” will be tallied in the “**Occurrence**” Column. Only taxa used in the LVS metric calculations will be tallied in the “**Occurrence of Herbaceous Wetland Taxon**” column. In the example above *Ostrya virginiana* and *Ricinus communis* are not tallied in the “**Occurrence of Herbaceous Wetland Taxon**” column because they are wetland status UPL. *Acer rubrum* is not tallied in the “**Occurrence of Herbaceous Wetland Taxon**” column because it falls into the tree or shrub category.

Per FS 7320 6.2

- Identify aquatic (OBL) and wetland plants (FAC, FACW) to the lowest practical taxonomic level, as described in Section 4.2 of the LVI Primer.
- When this method (LVS) is used to determine floral health associated with Chapter 62-302.531, F.A.C., do not include tree or shrub taxa unless they can also have a forb/herb growth form.

Taxa not used in the LVS metric calculation were included in the LVS Taxa list of this calculator because these taxa are in the FDEP Statewide Biological Database (SBIO).



Removing Taxa from the Calculator

The Delete Selected Taxon Button

The user can remove taxa rows from the LVS Calculator by selecting a taxon row and then clicking the *Delete Selected Taxon* button.

Delete Selected Taxon Linear Vegetation Survey Calculator

Waterbody: Caney Creek at US 90 Sample Date: 7/7/2022
 WIN/STORET ID: JeffCaney90 Analyst Name: Eric Boucher
 Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation? **Yes** Data Entered By: viewed By:
 Date Data Entered: viewed:

Use "P" to denote taxa present. note co-dominant taxa.

Taxon	Synonym(s)	CofC Score	FLEPPC Status	50-60	60-70	70-80	80-90	90-100	Occurrence	Occurrence of Herbaceous Wetland Taxon
Ludwigia repens		3.2							0	0
Luziola fluitans	Hydrochloa caroliniensis		OBL Native						0	0
Micranthemum glomeratum		5.85	OBL Native						0	0
Micranthemum umbrosum		5.66	OBL Native						0	0
Myriophyllum aquaticum	-	0.98	OBL Exotic						0	0
Najas guadalupensis		5.07	OBL Native						0	0

The Selected Row Will Be Grayed Out

Note: Taxa without observations ("P", "D", "C") **do not** need to be removed for the LVS results to be calculated. Removing taxa rows is for visual or customization purposes only.



Removing Multiple Taxa from the Calculator

The Delete Selected Taxon Button

The user can remove **more than one** taxa row from the LVS Calculator by selecting multiple taxa rows and then clicking the *Delete Selected Taxon* button.

Linear Vegetation Survey Calculator																	
Version 1.0, July 2022																	
Delete Selected Taxon		Caney Creek at US 90										Sample Date: 7/7/2022					
WIN/STORE ID: JeffCaney90		County: Jefferson				Analyst Name: Eric Boucher											
Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation?		Yes		Data Entered By: Bob Too				Data Reviewed By:									
		Date Data Entered: 7/8/2022				Date Reviewed:											
Use "P" to denote taxa presence, "D" to denote dominate taxa, or "C" to denote co-dominant taxa.																	
Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland	Nativity	0-10	0-20	0-30	0-40	0-50	0-60	0-70	0-80	80-90	90-100	Occurrence	Occurrence of Herbaceous Wetland Taxon
Ludwigia repens		3.2	-													0	0
Luziola fluitans	Hydrochloa caroliniensis	4	-													0	0
Micranthemum glomeratum		5.85	-													0	0
Micranthemum umbrosum		5.66	-													0	0
Myriophyllum aquaticum	-	0.98	-													0	0
Najas guadalupensis		5.07	-													0	0
Nuphar luteum	-	3.5	-													0	0
Orontium aquaticum		8.39	-													0	0
Panicum hemitomon		5.82	-													0	0
Panicum repens		0	Category 1	FACW	Exotic											0	0
Panicum rigidulum		5.47	-	FACW	Native											0	0
Pistia stratiotes		0	Category 1	OBL	Exotic											0	0

Selected Rows Will be Grayed Out

Customize the Calculator: Remove the taxa unlikely to be found in your area and save a copy of the calculator.



Adding Taxa: Step 1

Adding Taxa to the LVS Calculator

Delete Selected Taxon **Linear Vegetation Sur**
Version 1.0, July

Waterbody: **Caney Creek at US 90**

WIN/STORET ID: **JeffCaney90**

Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation? **Yes**

Use "P" to

Taxon	Synonym(s)	17	18	19	20	21	22	23	24
		<i>Abronia ameliae</i>	-	-	-				
		<i>Abronia angustifolia</i>	-	-	-				
		<i>Abronia bigelovii</i>	-	-	-				
		<i>Abronia carletonii</i>	-	-	-				
		<i>Abronia elliptica</i>	-	-	-				
		<i>Abronia fragrans</i>	-	-	-				
		<i>Abronia gracilis</i>	-	-	-				
		<i>Abronia insularis</i>	-	-	-				
		<i>Abronia latifolia</i>	-	-	-				
<i>Ludwigia repens</i>									
<i>Luziola fluitans</i>	<i>Hydrochloa caroliniensis</i>								
<i>Micranthemum glomeratum</i>									
<i>Micranthemum umbrosum</i>									
<i>Myriophyllum aquaticum</i>									
<i>Najas guadalupensis</i>									
<i>Nuphar luteum</i>									
<i>Orontium aquaticum</i>		8.39	-	OBL	Native				
<i>Panicum hemitomon</i>		5.82	-	OBL	Native				
<i>Panicum repens</i>		0	Category 1	FACW	Exotic				
<i>Panicum rigidulum</i>		5.47	-	FACW	Native				
<i>Pistia stratiotes</i>		0	Category 1	OBL	Exotic				
<i>Polygonum glabrum</i>	<i>Polygonum densiflorum</i>	4.5	-	OBL	Native				
<i>Polygonum hydropiperoides</i>		2.5	-	OBL	Native				
<i>Polygonum punctatum</i>		3	-	OBL	Native				
<i>Pontederia cordata</i>		5.38	-	OBL	Native				
<i>Potamogeton illinoensis</i>		6.64	-	OBL	Native				
<i>Ruellia simplex</i>	<i>Ruellia tweediana</i> , <i>R. brittaniana</i>	0	Category 1	FAC	Exotic				

1.Sample_Info | 2.LVS_Calculator | **3.LVS_TAXA** | 4.RPS | 5.HA_Stream_River

Click the "3.LVS_TAXA" worksheet tab to reveal all the taxa from which to select.



Adding Taxa: Step 2

Find The Desired Taxon

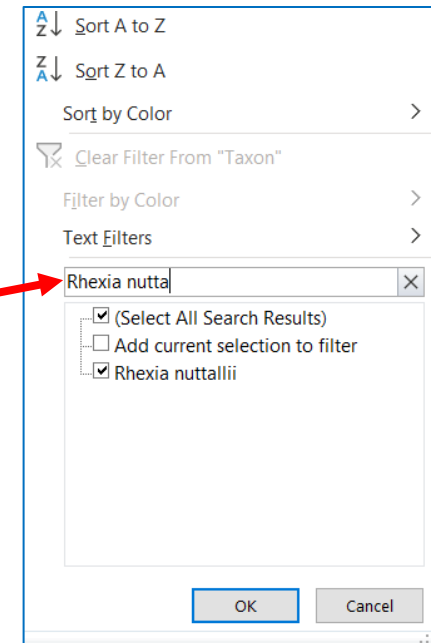
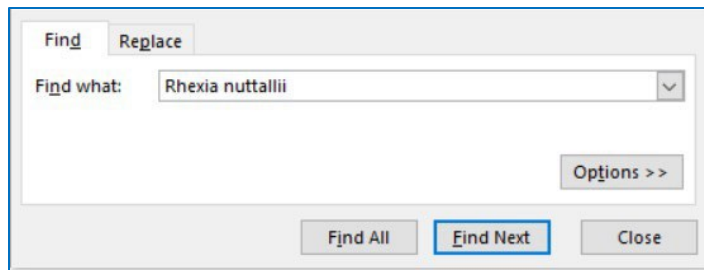
Taxa are listed in Column “A”.

The desired taxon can be found 3 ways:

1. Searching Column “A” (Taxon) and “B” (Synonym(s)) with the data filter search function.



2. Use Excel’s Find function, Ctrl+F. Type the name in the search bar and click *Find Next*.



3. By scrolling through the list.
 - Not recommended because there are over 1000 taxa.



Adding Taxa: Step 3

Select Desired Taxon and Add

A885						
Rhexia nuttallii						
A	B	C	D	E	F	AQ
Add Taxon		To Add Taxons to Calculator: Select taxon under column A on THIS Sheet, Then click Add Taxon Button				
Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland Status	Nativity	
881 <i>Rhexia alifanus</i>	-	4.6	-	FACW	Native	
882 <i>Rhexia cubensis</i>	-	7.22	-	FACW	Native	
883 <i>Rhexia mariana</i>	-	4	-	FACW	Native	
884 <i>Rhexia nashii</i>	-	7.8	-	FACW	Native	
885 <i>Rhexia nuttallii</i>	-	7.93	-	FACW	Native	
886 <i>Rhexia petiolata</i>	-	7.9	-	FACW	Native	
887 <i>Rhexia salicifolia</i>	-	7.14	-	OBL	Native	

Select the Row or Cell with the desired taxon.

In this example Row 885 or Cell A885.

Click the *Add Taxon* Button

The new taxon will be inserted alphabetically in the calculator. The new taxon row will be selected to make it easier to find.

Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland Status	Nativity	2	5	8	11
<i>Polygonum punctatum</i>	-	3.00	-	OBL	Native	-	-	-	-
<i>Pontederia cordata</i>	-	5.38	-	OBL	Native	-	-	-	-
<i>Potamogeton diversifolius</i>	-	6.00	-	OBL	Native	-	-	-	-
<i>Potamogeton illinoensis</i>	-	6.64	-	OBL	Native	-	-	-	-
<i>Potamogeton pectinatus</i>	-	7.80	-	OBL	Native	-	-	-	-
<i>Potamogeton pusillus</i>	-	7.80	-	OBL	Native	-	-	-	-
<i>Proserpinaca pectinata</i>	-	5.50	-	OBL	Native	-	-	-	-
<i>Rhexia nuttallii</i>	-	7.93	-	FACW	Native	-	-	-	-
<i>Rhynchospora corniculata</i>	-	4.00	-	OBL	Native	-	-	-	-
<i>Rhynchospora inundata</i>	-	4.00	-	OBL	Native	-	-	-	-



LVS Calculator Data

Entry Continued

The user will rate the total abundance of macrophytes in each 10 m section into one of the following categories: 0-5%, >5 and ≤10%, >10 and ≤25%, >25 and ≤50%, >50%.

% Cover Macrophytes Per 10m Section	0-5%	>5 and ≤10%	>10 and ≤25%	>25 and ≤50%	> 50%	> 50%	>25 and ≤50%	>10 and ≤25%	>5 and ≤10%	0-5%	
Notes:	The user will transcribe notes on the LVS field sheet to that area of the calculator.									0-5% >5 and ≤10% >10 and ≤25% >25 and ≤50% > 50%	

The user will transcribe any notes from the LVS field sheet into the designated “Notes:” cell of the calculator.



Data Entry Quality Assurance Review

After the data entry is completed, a second person should review calculator and verify the records were transcribed correctly. The reviewer will record their name and the review date in the applicable fields near the top of the calculator. In column "Y" Quality Check (QC) Performed By, the reviewer will initial each row after they have verified the data entry for the taxon in that row is correct.

Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation?	<u>Yes</u>	Data Entered By:	Bob Too	Data Reviewed By:	Don Brewer												
		Date Data Entered:	7/8/2022	Date Reviewed:	7/11/2022												
Use "P" to denote taxa presence, "D" to denote dominate taxa, or "C" to denote co-dominant taxa.																	
Taxon	Synonym(s)	CofC Score	FLEPPC Status	Wetland Status	Nativity	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80	80-90	90-100	Occurrence of Herbaceous Wetland	Quality Check (QC) Performed
<i>Alternanthera philoxeroides</i>		0	Category 2	OBL	Exotic	P	C	D	C	P	C	P	D				
<i>Ceratophyllum demersum</i>		4.16	-	OBL	Native												
<i>Cicuta maculata</i>	<i>Cicuta mexicana</i>	4.54	-	OBL	Native				P		P	P					
<i>Cladium jamaicense</i>		8	-	OBL	Native				P	D	P	P					
<i>Colocasia esculenta</i>		0	Category 1	OBL	Exotic	p	p	p	p	p	p	p	p				

The reviewer can use the data filters to only view the taxa with observations ("P", "D", "C") in the calculator. Open the data filter for the "Occurrence" column, Column "Q", and uncheck the box next to the number 0. Then click the OK button.



LVS Results

Linear Vegetation Survey Calculator Version 1.0, July 2022						LVS Sample Result		Pass	
Delete Selected Taxon						Mean CofC:	3.58	Pass	
Waterbody:	Caney Creek at US 90			Sample Date:	7/7/2022		%FLEPPC:	20.0%	Pass
WIN/STORE ID:	JeffCaney90		County:	Jefferson		Analyst Name:	Eric Boucher		
Greater Than 2 Square Meters of Herbaceous Aquatic Vegetation?	<u>Yes</u>	Data Entered By:	Bob Too		Data Reviewed By:	Don Brewer			
		Date Data Entered:	7/8/2022		Date Reviewed:	7/11/2022			
Use "P" to denote taxa presence, "D" to denote dominant taxa, or "C" to denote co-dominant taxa.									

LVS Sample Result	Pass
Mean CofC:	3.58
%FLEPPC:	20.0%
	Pass

The LVS metric scores and the LVS result are displayed at the top right of the calculator.



Rapid Periphyton Survey (RPS)

DEP FORM FD 9000-25 Rapid Periphyton Survey Field Sheet											
Site:					County:		Date:		Investigator:		
Caney Creek at US 90					Jefferson		7/7/2022		Bob Too		
Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated (Y/N)	Canopy Cover	Transect (m)	Point 1=right 9=left	Algal Thickness Rank (N-6, X)	Estimated (Y/N)	Canopy Cover	WIN/STORET Station ID:	
										JeffCaney90	
0	1	6	N	96	60	1	N	N	84	Secchi depth (m)	0.4
	2	3	N			2	N	N		Estimated?	No
	3	4	N			3	N	N		# points ranked 4-6	16
	4	N	N			4	N	N		total points assessed	99
	5	6	N			5	N	N		% points ranked 4-6 (%)	16
	6	N	N			6	N	N		RPS Result	Pass
	7	6	N			7	N	N			
	8	5	N			8	N	N			

The site name, WIN ID, county, date and investigator values are auto-populated with the values entered in the 1.Site_Info worksheet.

The user will use the transcribe the *Algal Thickness Rank*, *Estimated (Y/N)*, and *Canopy Cover* for each transect and the secchi depth measurement from the RPS field sheet.

The number of points ranked 4-6 and the total points assessed are tallied, and the percentage of points ranked 4-6 is calculated for the user.



Stream/River Habitat Assessment (HA)

DEP Form FD 9000-5 Stream/River Habitat Assessment Field Sheet			
SAMPLING AGENCY:	WIN/STORET STATION ID:	DATE (MM/DD/YY):	RECEIVING BODY OF WATER:
Jefferson County DEP	JeffCaney90	7/7/2022	Lake Miccosukee
REMARKS:	COUNTY:	LOCATION:	FIELD ID/NAME:
	Jefferson	Caney Creek at US 90	

The sampling agency, WIN ID, date, receiving body of water, county and site location description values are auto-populated with the values entered in the 1.Site_Info worksheet.

The user will use transcribe comments from the HA field sheets and if applicable the Field ID.



Stream/River HA Primary Habitat Components

Habitat Parameter	Optimal	Suboptimal	Marginal	Poor
Primary Habitat Components	Four or more major productive habitats present [snags, tree roots, aquatic vegetation, leaf packs (partially decayed), rock]	Three major productive habitats present. Adequate habitat. Some substrates may be new fall (fresh leaves or snags)	Two major productive habitats present. Less than desirable habitat, frequently disturbed or removed	One or less major productive habitat. Lack of habitat is obvious, substrates unstable or smothered
Substrate Diversity: 4	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
				4
Substrate Availability: 15	Greater than 30% major productive habitat present at site	16% to 30% major productive habitat, by aerial extent	6% to 15% major productive habitat	Less than 5% major productive habitat
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
		15		
Water Velocity: 13	Max. observed at typical transect: > 0.25 m/sec. But < 1 m/sec	Max. observed at typical transect: >0.1 to 0.25 m/sec	Max. observed at typical transect: 0.05 to 0.1 m/sec	Max. observed at typical transect: <0.05 m/sec; or spate occurring: > 1 m/sec
	≥0.33 0.31 0.29 0.27 >0.25 20 19 18 17 16	0.25 0.21 0.17 0.13 >0.1 15 14 13 12 11	0.1 0.09 0.07 0.06 0.05 10 9 8 7 6	<0.05 0.04 0.03 0.01 <0.01 5 4 3 2 1
		13		
Habitat Smothering: 6	Adequate number of stable pools (1-2 per 12 times width) and <25% of habitats affected by sand, silt, or algae.	Adequate number of stable pools (1-2 per 12 times width) and >25% of habitats affected by sand, silt, or algae.	Does not have required number of stable pools (1-2 per 12 x width) and/or has shallow pools (<2 x prevailing depth).	Stable pools are absent. Most habitats affected by sand, silt, or algae accumulation.
	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
			6	
Primary Score: 38				

The user will use transcribe the Primary Habitat Component scores from the HA field sheets

The Primary Score is calculated for the user.



Stream/River HA Secondary Habitat Components

Secondary Habitat Components	Expected sinuosity given the stream width. No evidence of dredging or artificial straightening. No spoil banks.	Good sinuosity within old channelized area. Evidence of dredging or straightening in the past (>25 yrs.) but mostly recovered.	Straightened with trapezoidal cross section, but has a small degree of sinuosity developed within channelized area.	Straightened or engineered by dredging, has trapezoidal or box cut cross section, lacks required pools. May have spoil banks.
Artificial Channelization: 6	20 19 18 17 16	15 14 13 12 11	10 9 8 7 6	5 4 3 2 1
Bank Stability	Bankfull > 60% of bank height. Slope of bank ≤ 60° from bankfull to top of bank. Bankfull is within or above the woody root zone with few raw, eroded areas.	Only meets 2 of the 3 requirements for optimal bank stability.	Only meets 1 of the 3 requirements for optimal bank stability.	Bankfull < 60% of bank height. Slope of bank > 60°. Bankfull is below the woody root zone with raw, eroded areas.
	10 9	8 7 6	5 4	3 2 1
Right Bank: 10	10			
Left Bank: 6		6		
Riparian Buffer Zone Width	Width of vegetation greater than 18 m	Width of vegetation >12 to 18m	Width of vegetation 6 to 12 m. human activities close to system	Less than 6 m of buffer zone due to intensive human activities
	10 9	8 7 6	5 4	3 2 1
Right Bank: 5			5	
Left Bank: 3				3
Riparian Zone Vegetation Quality	Over 80% of riparian surfaces consist of normal, expected plant community for given sunlight & habitat conditions (e.g., native plants; tree, shrub, and forbs represented, if appropriate). Minimal disturbance.	>50% to 80% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Some disruption in community observed.	25% to 50% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions). Disruption obvious.	Less than 25% of riparian zone is undisturbed (normal, expected plant community for given sunlight & habitat conditions).
	10 9	8 7 6	5 4	3 2 1
Right Bank: 8		8		
Left Bank: 4			4	
Secondary Score: 42				

The user will use Secondary Habitat Component scores from the HA field sheets

The Secondary Score and the Total Score are calculated for the user.

TOTAL SCORE

93



Physical/Chemical Characterization Field Sheet (PhysChem)

DEP Form FD 9000-3 Physical/Chemical Characterization Field Sheet					
SAMPLE ID	<input type="text"/>	ORG ID	<input type="text" value="21FLJEFF"/>	LATITUDE	<input type="text" value="30.53251"/>
COUNTY	<input type="text" value="Jefferson"/>	WIN #	<input type="text" value="JeffCaney90"/>	LONGITUDE	<input type="text" value="-83.95074"/>
DATE	<input type="text" value="7/7/2022"/>	TIME	<input type="text"/>	SAMPLING AGENCY	<input type="text" value="Jefferson County DEP"/>
SITE NAME	<input type="text" value="Caney Creek at US 90"/>				
FIELD ID/NAME	<input type="text"/>	RECEIVING BODY OF WATER	<input type="text" value="Lake Miccosukee"/>		

The sampling agency, date and site attributes values are auto-populated with the values entered in the 1.Site_Info worksheet.

The user will transcribe sample time from the PhysChem field sheet and if applicable the Field ID and sample ID.



PhysChem Riparian Zone and Stream Features

RIPARIAN ZONE / STREAM FEATURES									
PREDOMINANT LAND-USE IN WATERSHED (specify relative percent in each category) :							<input type="text"/>		
Forest/Natural	Silviculture	Field/Pasture	Agricultural	Residential	Commercial	Industry	Other (Specify Above)	Landscape Development Intensity Index (LDI)	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
Local Watershed Erosion (select one): <input type="checkbox"/> None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy						Typical Width (m) Depth (m)/Velocity (m/sec) Transect			
Local Watershed NPS Pollution : <input type="checkbox"/> No evidence <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Heavy						<input type="text"/> m wide			
Width of Riparian Vegetation (m) on Each Buffer Side Left Bank: <input type="text"/> Right Bank: <input type="text"/>				Hydrologic Modification Score (per FT 3101) <input type="text"/>		<input type="text"/> m/s		<input type="text"/> m/s	
High Water Mark: <input type="text"/> + <input type="text"/> = <input type="text"/> <small>(m) (above present water level) present depth (above bed)</small>				Artificially Impounded <input type="checkbox"/> Yes <input type="checkbox"/> No		<input type="text"/> m deep		<input type="text"/> m deep	
Artificially Channelized:		<input type="checkbox"/> No		<input type="checkbox"/> Mostly recovered, more sinuous		Canopy Cover %		<input type="checkbox"/> Open	
<input type="checkbox"/> Some Recovery		<input type="checkbox"/> Recent, severe				<input type="checkbox"/> Heavily Shaded		<input type="checkbox"/> Lightly Shaded (11-45%)	
						<input type="checkbox"/> Moderate Shaded (46-80%)			

The user will transcribe the Riparian Zone and Stream Features from the PhysChem field sheet.



PhysChem Sediment and Substrate

SEDIMENT / SUBSTRATE																																																																																					
Sediment Oils <input type="checkbox"/> Absent <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Profuse			Sediment Odors <input type="checkbox"/> Normal <input type="checkbox"/> Sewage <input type="checkbox"/> Petroleum <input type="checkbox"/> Other (Specify) <input type="checkbox"/> Chemical <input type="checkbox"/> Anaerobic			Smothering of Substrates Sand Smothering None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Silt Smothering None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/> Algae Smothering None <input type="checkbox"/> Slight <input type="checkbox"/> Moderate <input type="checkbox"/> Severe <input type="checkbox"/>																																																																															
SUBSTRATE TYPE Assessment Tool: <input checked="" type="checkbox"/> SCI <input checked="" type="checkbox"/> RPS <input checked="" type="checkbox"/> LVS <input type="checkbox"/> LCI <input type="checkbox"/> BioRecon <table border="1"> <thead> <tr> <th></th> <th>% Coverage</th> <th>INVERT #Times Sampled</th> <th>PERI #Times Sampled</th> </tr> </thead> <tbody> <tr><td>Woody Debris (Snags)</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Undercut Banks / Roots</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Leaf Packs or Mat.....</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Aquatic Vegetation.....</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Rock or Shell Rubble.....</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Sand.....</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Mud / Muck / Silt.....</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other.....</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> <tr><td>Other.....</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td></tr> </tbody> </table>					% Coverage	INVERT #Times Sampled	PERI #Times Sampled	Woody Debris (Snags)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Undercut Banks / Roots	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Leaf Packs or Mat.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aquatic Vegetation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Rock or Shell Rubble.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Sand.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mud / Muck / Silt.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Other.....	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	WATER QUALITY <table border="1"> <thead> <tr> <th></th> <th>Depth (m)</th> <th>Temp (°C)</th> <th>pH (SU)</th> <th>D.O. (MG/L)</th> <th>D.O. Sat (%)</th> <th>Cond. (µmhos/cm)</th> <th>Salinity (PPT)</th> <th>SECCHI (m)</th> </tr> </thead> <tbody> <tr><td>Top:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>0.4</td></tr> <tr><td>Mid:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/> VOB</td></tr> <tr><td>Bottom:</td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td><input type="checkbox"/></td><td>Total Depth <input type="checkbox"/></td></tr> </tbody> </table> Meter ID: <input type="text"/>							Depth (m)	Temp (°C)	pH (SU)	D.O. (MG/L)	D.O. Sat (%)	Cond. (µmhos/cm)	Salinity (PPT)	SECCHI (m)	Top:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	0.4	Mid:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> VOB	Bottom:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Total Depth <input type="checkbox"/>
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Gray fields are auto-populated with values entered in previous worksheets. Use text (Ex. "x") in fields that resemble check boxes. These fields are not check boxes.



Submitting Results

For Impaired Waters Assessment

Data providers who would like to submit the bioassessment results in the calculator to the Department to support Impaired Waters assessment can do so by copying rows 2-20 of the External Bio Format worksheet into the Department's Bioassessment Data template. All values in this table are auto-populated with information in the previous worksheets.

WIN ORGANIZATION ID	WIN STATION NUMBER	STATION NAME	STATION DESCRIPTION	PRIMARY TYPE	WATERBODY NAME	LATITUDE	LONGITUDE	SAMPLE DATE	METRIC	RESULT	FIELD COMMENT	COLLECTOR	METRIC PROFICIENCY	SAMPLING ENTITY
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	HA (Riparian Buffer Zone Width - left bank)	5		Bob Too	Eric Boucher	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	HA (Riparian Zone Vegetation Quality - right bank)	3		Bob Too	Eric Boucher	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	HA (Riparian Zone Vegetation Quality - left bank)	4		Bob Too	Eric Boucher	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	HA (Secondary Score)	38		Bob Too	Eric Boucher	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	Habitat Assessment Score	114		Bob Too	Eric Boucher	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	Avg_CofC_LVS	2.25		Eric Boucher	N/A	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	FLEPPCPCt_LVS	50.0		Eric Boucher	N/A	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	LVS_LESS_2SQM	N		Eric Boucher	N/A	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022	RFS	17		Bob Too	N/A	Jefferson County DEP
21FLJEFF	JeffCaney90	Canye Creek ar US 90	Canye Creek ar US 90	Stream	Caney Creek	30.53251	-83.95074	7/7/2022						Jefferson County DEP

Submitting Bioassessment Data

Data providers who would like to submit LVI data to help support the Department's Impaired Waters assessment can copy the auto calculated values in this worksheet into the Watershed Assessment Sections Bioassessment Data Template.

↑ Values in cells with no fill color

above are referencing values in other worksheets.

These cells are auto populated they do not need to be filled manually.

Cell with BLUE fill color are ed

Copy rows 2-20

Open the Bioassessment Data Template and paste rows 2-20

Email Jessica Mostyn

to help support the department's Impaired Waters assessment. Please use the template has been completed with the required information, McDonnell.

In the Bioassessment Training, Evaluation and Quality Assurance Web Florida Administrative Code (F.A.C.), and the incorporated DEP data providers must be in the applicable Active status for LVI, BioRecon, as are not required, because there are currently no certifications for