

Regional Streamflow Duration Assessment Methods Suggested Field Equipment List

This is a list of suggested field equipment for conducting the Regional Streamflow Duration Methods (SDAM). The items listed are examples. Not all items are required.

Other necessary items that are not listed below include: Plant and invertebrate ID guides or apps, first aid kit, personal gear (e.g., boots, waders, insect repellent, etc.), notebook, and sealable plastic bags (for plant voucher collection). The relevant Regional SDAM User Manual should be consulted to determine all items needed in the field, e.g., site maps, National Wetland Plant List. Note that if multiple streams are to be sampled, decontamination supplies are recommended (spray bottles, scrub brushes, bleach).

Item	Notes	PNW	AW	WM	GP	NE	SE
50-meter tape	Used to measure bankfull width, reach length and flood-prone width	X	X	X	X	X	X
Camera	Handheld camera or mobile device, i.e., smartphone. Ideally it is a digital camera that records metadata, i.e., time, date, directionality, and location, as part of the photo's EXIF (Exchangeable Image File Format) data.	X	X	X	X	X	X
Clinometer or laser level	Percent or degrees	X	X	X		X	
Convex Spherical Densiometer	Will need to modify to exclude the lower squares; see User manual for instructions.			X		X	X
D-frame kicknet	500-µm mesh	X	X	X	X	X	X
Digging Tools	Shovel, soil auger, rock hammer, hand trowel, pick, or other digging tools to facilitate hydrological observations of subsurface flow. Collapsible helpful.	X	X	X	X	X	X
Fine Forceps	Easily lost, may want to get several pairs	X	X	X	X	X	X
GPS Unit	Any suitable GPS unit or mobile device, i.e., smartphone	X	X	X	X	X	X
Leveling/stadia rod	Used as a target for the user while viewing the clinometer. Optional if using another target level with the user's eye (e.g. inanimate object, spot on another person) or a laser level.	X	X	X		X	
Magnifier	Hand lens, pocket microscope, phone attachment or magnified reading glasses	X	X	X	X	X	X
Rite-in-the-Rain Paper	For field forms, recommend a color (e.g., gray, tan, green) so can differentiate from regular paper. For internal vial labels, recommend white paper.	X	X	X	X	X	X
White tray	A variety of sizes are available; a 13" x10" pan is suitable and can fit in a backpack	X	X	X	X	X	X

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Aquarium Net(s)	Optional - Might be needed for smaller channels	X	X	X	X	X	X
Ethanol	Optional - 95% is strong, but water introduced from sample lowers % and preserves well. If use 70%, only put macros into vial (no leaves, algae, etc). 3.8 liters should last years if only used for voucher specimens.	X	X	X	X	X	X
Flagging tape	Optional – can be helpful marking the ends of the assessment reach or notable indicators or features.	X	X	X	X	X	X
Head lamp, waterproof	Optional - for working in darkly shaded reaches	X	X	X	X	X	X
Littoral wash bucket with No. 35 sieve (500-µm mesh)	Optional - Not necessary but can be used to sieve out fine sediments and help processing; can also use the D-net as sieve.	X	X	X	X	X	X
Range finder or laser measuring tape	Optional – an alternative for measuring bankfull width	X	X	X	X	X	X
Storage Clipboard	Optional	X	X	X	X	X	X
Survey stakes	Optional – may be helpful for setting the measuring tape level at certain locations	X	X	X	X	X	X
Tarp	Optional – for laying out equipment and samples	X	X	X	X	X	X
Turkey baster and/or Transfer Pipettes	Optional - Can be used to extract water from small pools to fill the white pan	X	X	X	X	X	X
Vials	Optional - only needed if retaining voucher specimens; 20-25 ml scintillation vials are a good size; Most suppliers only sell in bulk.	X	X	X	X	X	X