KNOTWEED

DETAILED PROTOCOL AND DATASHEET





Team Name: Date:	Time:
Coordinates (Decimal Degrees):	
Latitude:Lon	gitude:
Materials	1
For the whole group: • 1 transect tape Recommended • Sunglasses or safety goggles • Flagging tape	 For each fieldwork team: 1 meter squared quadrat Meter stick Ruler Species ID cards for Japanese and giant knotweed Clipboard and pencils Camera (smartphone camera is fine)
Protocols The instructions in this column specify how to answer the questions on the right-hand side of the page.	Data and Photos to Collect Questions are required unless otherwise marked. Each question has a "" beside it to help you track your progress.
Study Site (same information for all teams)	
 1. As a group, estimate the size of the knotweed patch. Estimate the length of the patch Estimate the width of the patch Multiply to estimate the full patch size 	Knotweed population (choose one): Less than 50 square meters 51 to 100 square meters 101 to 200 square meters More than 200 square meters
2. Determine the type of habitat	Habitat type (choose one): developed area forest banks of a stream or river
 3. Work together to lay a study transect. If the patch is too dense to walk through safely, run the transect along the edge of the patch Record the total length of the transect 	Transect Placement (choose one): Through the middle Along the edge Total length of transect:

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4. Take a photo of the full patch or as much of the site as you can capture	Photo of the field site taken
Species found	
 5. Walk to your assigned spot on the transect tape, and place the quadrat on the other, untrampled side of the transect. Each fieldwork team should be evenly spread along the transect Record the location of the quadrat along the transect. 	☐ Location on transect: meters
 6. Scan the same plant for ants. Look where the leaves attach to the main stem. Knotweed often releases nectar there to attract ants. Record whether you see ants crawling on the knotweed plants. 	Do you see ants on the knotweed? (choose one): Yes No
 7. Determine which species of knotweed is present at your field site: Use your ID guides Find at least 3 pieces of supporting evidence for your identification Consider the leaf size and shape, height of the plant, and hairs underneath the leaf Remember that a hybrid will have characteristics of both Japanese and giant knotweed 	Knotweed Species (choose one): Japanese knotweed Giant knotweed Hybrid/other
8. Check in with another fieldwork team to peer review the identification.	 We shared three pieces of evidence our team used to identify the knotweed species. The other team has correctly identified the knotweed species.

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 9. Take photos that show you have identified the knotweed species. For the close up of a leaf, lay the leaf on top of a piece of paper, and take the photo from above. Make sure the bottom of the leaf is included in the picture, where the leaf meets the stem. 	 Close up of the leaf with ruler taken Close up of the underside of the leaf taken Close up of the flowers or seeds taken (if present) one foot-long section of the stem taken (including where leaves attach)
Knotweed measurements	
 10. Count and record the total number of LIVE stems in the quadrat. Keep track of the stems that have been counted. Have one member of your fieldwork team hold counted stems or tie flagging tape around each steam that has been counted. Do not count old, dead stems 	□ Number of LIVE stems in the quadrat:
 11. Find the height of the tallest stem If the tallest stem is more than 1m, use the flagging tape tape to mark each meter on the stem. Measurements do not need to be exact. 	☐ Estimated knotweed height:m
 12. Look for evidence of flowers and seeds dry or dead flowers are considered evidence of flowers Knotweed seeds are surrounded by a white papery material 	Evidence of flowers? Yes No Evidence of seeds? No Yes No
Field Notes (optional)	

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Checklist	
I certify that I: followed the quadrat placement protocol completed peer review in the field	☐ Checklist complete? (Circle one) Yes No ☐ Signature: