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Dear Leaders,

This publication contains the 4-H Natural Science Roject Record (4-H 303LR-a) and a complete set of specific project class sheets. In addition to the 4-H Natural Science Project Record, members may choose to use the specific data sheets with their project of choics. Blease photocopy data sheets for members who wish to use them Or, members can download the data sheet(s) of their choice from the Extension & Experiment Station Communications Web site:

Open **eesc.oregonstate.edu**, choose "Publications and videos," then choose '4-H Youth Dook under "4-H Record Sheets" by series number.



4-H Natural Science Project Record

Name			Boy	Girl		le in ool	Date born		19
				_				4.	
Year in 4-H	Year in this project	Date starte	ed		20	Date _ finished	X	<u> </u>	, 20
	art of your 4-H proje u need help, ask your								
Projects I l Project	hope to do and l	earn this y	year		<u> </u>	· 2		Date acco	pplished
Type of hab	tion (County, addre	all that appl	y), '(1	2/1/2	ns ns	site)	201		
□ WaterTypes of act□ Riparian□ Watershe□ Research□ Recyclin	ivities to be confused study		All that appears	☐ Erosi ☐ Soil ¡ ☐ Habit	profile o tat impr			Weed co	nagement
Below is a l project the 1. 4 H Ex- 2. 4 H Wild 3. 4 H Soil 4. 4-H Fore	is of optionar Data y. tronmen Observation llife Observation Observation Data o Monitoring Data	Sheets Sheet Sheet a Sheet	lude with	this Recorm)	rd any D 6. 4-H 7. 4-H 8. 4-H 9. 4-H		s that you ata Sheo dal Dat ta Shee a Sheet	ou use in et a Sheet t	
Record of	equipment used	, bought, c	or made	(optional)					
Item (include equi	pment on hand)	Cost	Value	Item (include	equipmo	ent on hand		Cost	Value

Summary of project				
Include what you did and learned.	(Use more paper if nece	essary.)		
				•
				•
			~ `	
			\sim	
How I have shared what I h			h others	
Include presentations, photos, exhi	bits, displays, news arti	cles, etc.	(/ *	\C
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			1	
				_
	1	\sim	~. XV	•
Names of people who helpe			(1) O	
Name	How he/she helped	ne Getter, meeting,	onversation, coachin	ig, advice)
			0.1	-
			_XV	
	<i>~</i>			
		-1/1 -x	(0	
) ~	
	X > X			
Things I hope to do and lea	rn next year	, 'O,		
	- (x	\sim		
	1, 7	4019		
		10		
	, 'N' () ,		
Project review and comme				
Project review and rolline				
V × '	Gas complet	ted his/her records a	and I have reviewed th	nem with him/he
(Name of merths)	Complete	ed mis/ner records, d	ina i nave leviewed ti	iem with imm ne
	· (2)			
Comments by leader	XV			
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	1			
, 0, 1/6	, 			
<u> </u>				
7 1.7				
XCI				
Mill	Signed _		or individual member)	, 4-H Leader

4-H Environment Observation Data Sheet



(For Junior Members)

Name			Roy	Girl	Grade in	Date born	19
							17 <u></u>
Address				City			<u> </u>
Club leader _					County	D'	
Year in 4-H	Year in this project	Date started _		, 20	Date finished	\mathcal{I}_{k}	
	rt of your 4-H pro If you need help, a						
Observe the st	tudy area, and writ	e what you see	e and lear	n about air	, water, soil, i	ocks, plants,	and animals.
Air			Co	0	0,	SOC	
Water	NOST.	or sion		300	Salu		
Soil	itibilet						
	Ic.						

Rocks		
Plants		∠ ⟨ √ .
		OK OK NO
		(), "/CS; ()
Animals	ents	iou segn
	Morning	State
	Ch 1/1/1/00	
roject review and comm	$c > \cdot \cdot \circ \circ$	ords and I have reviewed them with him/her.
(Name of member)	This completed his/her reco	ords and I have reviewed them with min/her.
40'.'!	3r	
, Afth	Signed(Parent may	, 4-H Leader sign for individual member)



4-H Forest Observation Data Sheet

Date	Crew memi	oers			
Plot number	Weather			Temperatur	4 ;
Stand type (circle	all that apply) Regenera	tion Young fo	orest Unders	story Multi-la	yered Older forest
Plot site analys (Circle the ones that				, Or	C
Elevation	Annual precipitation	% of slope	Soil type	Shade tolera	nce
0-500 ft	less than 20 inches	0–5%	sand	intolerant (fu	ıll sun)
500–1,000 ft	20–40 inches	5–15%	silt	intermediate	, ~ ,0
1,000–2,000 ft	40–60 inches	15–25%	cla	tolerant (like	s shade)
2,000–5,000 ft	60-80 inches	25–50%	loam	full shade	. .
over 5,000 ft	over 80 inches	over 50%	rocky		
Possible sources	of water (circle all that app	ely) rain	stre in Xriver	sn sn	ow condensation
Wind speed	direction	1 3N	y sign of whyd	darlage	
Plant inventor Size of plot Plant name		ne) Number ree found	Amount of p		
Totals for all plants	<u>i</u> Q.'\			%	

	vidual tree inventor	y	T		,					.3.6.1
Tag no.	Tree name	dominant	Tree co-dominant	type (check intermediate	one) suppressec	l snag	DBH	Height	MBF	Market value (\$)
									•	
								~	().	
							•			
							V			, ~
						X				
) `			×	
									0',ح	
				_\					lacksquare	
	Totals for all trees					•		eq otag		\$
						V)		
Турс	of damage or disease	Possible car		44	dio	P	menae	d action		
		\	V X	$\langle O_{r} \rangle$	~~					
		0	Vill	, ~) ,					
			~	40,43						
				40						
	llife inventory			<u> </u>						
Anim	al observed	Evidence observ	ved	Wh	y is it four	nd hei	re?			
		\mathcal{O}^{\bullet}								
		5 0								
	1/2 20	XO								
/	V, ()	4								
\frown		⊘' —								
	YO, ·//	•								
	$^{\prime}O_{K_{\lambda}}$ Y									
	Vici									
l'otal	number of animal spec	ies observed_								

4-H Habitat Data Sheet



Da	ate	Crew members	s _						
Lo	ocation		I	Plot no.	Elevati	on	Pe	rcent of slo	ре
Se	eason	Temperatu		Annual precipitation			Soil type		
Ty	pe of habitat stud	y area (check one,)			\	$\mathcal{O}_{\mathcal{I}}$		Ċ
	Temperate forest			_	desert forest			Marsh/wet	
	Temperate grasslan	d/meadow		_	desert grassland			Pond/lake/	stre in
	Cultivated land			High	desert shrub lan			Marine/tic	al area
	Other:				\sim	•		\C' ^C	<i></i>
		onifer forest (habita e maple and red eld r.				of swo	fern, Distri		d ivy
		Che	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		seo.				
	×0,	ter sources. Note if			permanent or sea		which	n might pro	vide cover

5. How large is the habitat a	rea?		
6. Is it connected to other na		or is	it isolated?
			<u> </u>
Human impact Describe human activities tl	nat might imn	nact i	habitat quality in a positive (+) or negative (1) way.
			a major traffic area, lots of human use of area, nesting boxes
1 1	_	pact	
Iuman activity	+	-	Why? (Reason for positive or negative impact)
			\ \C.O
			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Vildlife observations			
ook for animal trails, scat,			
ook for animal trails, scat,			nd how aftenseen.
ook for animal trails, scat, ame, evidence of animal si	gn, how man	y, ar	
ook for animal trails, scat, ame, evidence of animal si	gn, how man	y, ar	nd how aftenseen.
ook for animal trails, scat, ame, evidence of animal si	gn, how man	y, ar	nd how aftenseen.
Vildlife observations Look for animal trails, scat, name, evidence of animal si Animal name	gn, how man	y, ar	nd how aftenseen.
book for animal trails, scat, ame, evidence of animal si	gn, how man	y, ar	nd how aftenseen.
Look for animal trails, scat, name, evidence of animal si Animal name	gn, how man	y, ar	nd how aftenseen.
Look for animal trails, scat, ame, evidence of animal si Animal name Cotal number of species	gn, how man	y, ar	of animal sign How often? How often?
cook for animal trails, scat, ame, evidence of animal si animal name Cotal number of species	gn, how man	y, ar	nd how aftenseen.
ook for animal trails, scat, ame, evidence of animal si unimal name Ootal number of species	gn, how man	y, ar	of animal sign How often? How often?
Look for animal trails, scat, ame, evidence of animal si	gn, how man	y, ar	of animal sign How often? How often?
Cotal number of species	gn, how many Evider	y, ar	I animal)
Cook for animal trails, scat, ame, evidence of animal sinimal name Cotal number of species	gn, how many Evider (include plant)	y, ar	of animal sign How often? How often?
cook for animal trails, scat, ame, evidence of animal sinimal name Cotal number of species	gn, how many Evider (include plant)	y, ar	I animal)
ook for animal trails, scat, ame, evidence of animal sinimal name otal number of species ist abundant food sources	gn, how many Evider	y, ar	I animal)
ook for animal trails, scat, ame, evidence of animal sinimal name otal number of species ist abundant food sources	gn, how many Evider (include plant)	y, ar	I animal)
ook for animal trails, scat, ame, evidence of animal sinimal name Ootal number of species ist abundant food sources Using the list of animals and abitat.	gn, how many Evider (include plant) and the land of th	y, ar	In the habitat area, draw or outline a possible food chain for the the habitat for the greatest diversity of native wildlife species





1. What natural resource issue did you	u investigate? Be specific.
	\sim
2. Who are the main stakeholders in t	his issue? (Examples: government agencies, businesses, general
public, individuals, a specific commu	nity) List their names.
3. Describe the different points of vie	ew of the various stakeholders regarding the use of this resource. List
stakeholders and their specific points	
Stakeholder	Point of view or belief
Stakeholder	1 omit or view of being
	10 80, Va
	1, 1, 0,
()	
, 10	
4. Who makes the decisions reserving	g the past of this natural resource? (Check all that apply.)
4. Who makes the dicksions regarding County planning and zoning	Natural Resource Conservation District
District Health Dept office	County or township board members
☐ Lockenvironmental organization	watershed councils
☐ Mousiness or in stry	Oregon Dept. of Fish and Wildlife
U.S. Forest Service	Road commission
Municipal water supply by waster	
Other water tapped waste	water treatment racinty
- 60 0.1	
5. What local, water or federal regulat	tions impact the use(s) of this natural resource?
	1
•	

6. Who owns this natural resource? (Examples: federal publi organization, industry)	c land, state land, individual landowner,
7. List sources of information you used in investigating this conducted, individuals or groups you spoke with)	issue. (Examples: written material, surveys
8. After studying this issue, what is your recommendation fo	r the use of this catural resource? Explain with
9. Whom does your recommendation benefit, and whom does	cit urt?
10. What are the trade-offs (ethical, scientific, legal, aesthetic, Are you giving up the aesthetic benefits of the resource it is	refeational economic, political)? (Example: wor of economic gain?)
11. What are the short-term and long-@m effects or your red	commendation on the resource?
12. How to you propose that the sale could be resolved? W	That role can you play in resolving the issue?
13. What actions will you take at home and/or publicly?	
/jr,	

4-H Marine/Tidal Data Sheet



PateCre	ew members				
ocation				K	no:
eason	Temp	perature	_ An		
Marine life			, <	\mathcal{O}_{ℓ}	
the table below, identify the bund," indicate if it was in the					
pecimen name	Description of when)"		How namy foun
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		\sim	•)
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			x C	,•	
	~~	.~~ ×?			
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	M X III	9			
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	<i>'</i> 0' '0' '				
	5				
1500	×6/,				
Nater characteristics ecord the following water h	practaristics for each site	that you tastad			
est site location (intertidal zone,					Dissolved
ub-tidal zone, open ocean)	Tidal level	Temperature	pН	Salinity	oxygen

cribe human disturban	ces to this marine e	environment and t	neir potential impac	ct.
				<b>Y</b>
				0
				71
ed on your data and ob	servations, what ca	an you say about t	he water quality at	Mis location and why
			$-\mathcal{O}_{\mathbf{z}}$	~~~
			_	
		•		1/02
		$\overline{}$	$\sim$	<b>7</b> 0,
		$-\varsigma$	(O)	S
			W XO	•
		2 4	10 VIC	
nat other information w	ould help you make	e a decision about	the water quality?	
		×11, -C		
	<del>(0)</del> <u>(</u>	<b>₹</b>		
$\sim$	V (8)	, 0,		
<b>,</b> , <b>X</b>		<u>~</u> (		
		$\mathcal{O}_{-}$		
hat measures, if any, co	kd be taken to imp	rove the water qua	ality and/or habitat	at this location?
1120				
K1, V1	at "			
101	16			
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,,			
17/17				





Date		Crev	v member	's					
Locatio	on				Plo	ot no	]	Elevation_	*
Season				7	Гетреrature	;	Annua	precipitat	ion
your pr Monito manage	onitoring is an roject is meetin ring can show ement system i management	g its goals how well, s working.	and object or how po	ctives. oorly, a elp you	monito whole s much i	oring tech story abo nformati		otographs t, but you otographs	taken at the
Record	d of best pho	otos					•	111	
f. stop	Focal length (mm)		Time of day	Compas			Exposure number	Subject descript	ion
						<i>y</i> ,	×O.		
			-	12	4/1		<b>À</b>		
			1		<b>(0)</b>	1/2			
			<b>\rangle</b> ,	× 11	0	)			
		16			303				
		<b>&gt;</b>	110		9				
	S	, G	<b>J</b> .	0,					
	S .	5	70						
X.	1 ~	X	$oldsymbol{k}$						
	4/1	101							
_<	Ortic	",							
	, ALL								
	<b>\'</b>								









A record is part of your 4-H project. Keep your record neat, clean, and up-to-date. It's best to use a pencil. Write clearly. If you need help, ask your parents or leaders. If you need more space, add notebook paper to your record. Date _____ Crew members _____ Location _____ Plot no. ____ Elevation ____ Percent of slope __ Season _____ Temperature ____ Annual precipitation ___ Type of habitat study area (check one) ☐ High desert forest Riparian ☐ Temperate forest Marine/tidal a ☐ High desert grassland/mead ☐ Temperate grassland/meadow ☐ High desert shrub land □ Oak savann ☐ Cultivated land ☐ Other: **Range observations** Record vegetation (all species), litter (dead material), ure with the tape in 1-foo buches any vegetation. Atte, rock, or bare at a \( \sqrt{n} \) the correct took (Example: If your tape ay (egytation in the first foot, put a \( \sqrt{n} \) in the \( \text{Rist} \) column, under "Vegetation.") rock (greater than 1 inch), and bare ground of the study area. You will need a 25-foot tape measure, clipboard, pencil, and this check sheet. Repeat the observations four times at different locations throughout the stud Bare ground # feet into Vegetation study area 1st 2nd 2nd | 3rd | 4th

Veg Litt	getation	1st	2nd	Observation 3rd	ns   4th	Total	Percent (%)*	
Litt	-							
						a.		
Ro	ter					b.		
	ck					c.		
Bar	re ground					d.	4	•
Tot	al					e.		,
Exa	ercent (%) = t ample: Total a Is there evic	. ÷ Total e	e. = Percen	t a.	ations) divi	·	al of all items.  If yes, please desc	ribe.
2.	Does the ve Do there ap Does there a Is the study	pear to be appear to area effe	e multiple be recrui ctively ca	e species of tment of y apturing, st	oung plan toring, an	its? Leneasing w	YesNoNoNoNoNoNo	g, fire,
4.	Do the man			seem to be	e <b>X</b> a baland		ondition of the range? Why?	
5.	Excelle	<b>\</b>	observation	ood-to Ga		Poo	condition of the range?	
<i>6</i> .	If you classic toward "Pool Based on the tion of the second secon	or"?	) · · ·	To.			toward "Excellent," or downverted to help improve	

### **4-H Soil Observation Data Sheet**



Date	Crew men	nbers			
Plot no	Location		Weather _	~	•
General da				D	
Air temperatu	re: 3 feet above ground		just above ground	$\supset_{t}$	- ^
Soil temperatu	ure: in organic layer		3 inches deer into	mineral soil	<i>−</i> 70,
What is the so	oil moisture content of the i	mineral soil? (circl	e one) vet	moist	X (d)
How does the	soil texture feel? (circle on	e) gritty (sand	smooth (	silt)	ioo (clay)
	ame (type) and map symbo on (for example, percent of			county. Yn di	ade any impor-
		(1)	×6	•	
		~ ~	60 × 30		
List plants gro	owing in this plot.	O, KOL	nste		
	(×)	4111	5		
What is the re	lationship between the soil	exture (sant) silt	, or clay content) an	d plants?	
What is the sh	ope of this plot? (circle one	none (flat g	round) 5–25%	25-50%	over 50%
List any erosio	on concerns.				
7	1,161				
Explain how I resources in the	and uses (recreation, const	ruction, logging, t	ree planting, grazing	g) could affec	t the soil

#### **Analyzing soil horizons**

#### Contents of layers above top soil (if existing)

Select an area about 2 or 3 feet square on the ground. Sift through the top 3 inches, recording the evidence of plants and animals you observe. Replace the ground in as near original condition as possible.

	Name or description of tem in the soil	Quantity	Describe the characteristics (example: feel, smell, color)
Litter (identifiable dead plant or animal material on surface)			٧,
Duff (partially decomposed, dentifiable organic matter compacted)			OR
Humus (almost completely decomposed, non-identifiable organic matter)			of atalo
Soil horizons data Sketch your soil profile, label t	he horizon, and record the	he da <u>ta</u> .	
		Depth	
Texture		rocture	(O. C.
Plant roo	ots visible	~\Q\ \Q\	× ×6.
Horizon		)epth	Color_
Texture		tracture	PH
Plant roo	ots visible	00.	
Horizo			Color
To the	, (Q, C	tructure	pH
Plant roo	ots visible		
Horizon		epth	Color
(e) ture	s	tructure	рН
Plant roc	n visible		
Payont the folial (C halidan	, ,		
Parent material (C holizon Describerype of rock in the beau	drock (if present)		
With the same of t			

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### **4-H Water Data Sheet**



Date	Crew members		
Location	Plot no	Elevation	Percept of slope
Season	Temperature	_ Annual precipitation _	Soiltype
Type of water study are	a (check one)		
☐ Temperate forest	☐ High desert for	rest 🗆 Coa	stal grassland/meadow
☐ Temperate grassland/mead	low    High desert gras	ssland/meadow 🔲 💸	stal mountain grassland/mexdow
☐ Marsh/wetlands	☐ High desert shi	rub land 🗖 Oth	er:
Record the amount of stream v species), dissolved oxygen (Develocity, and temperature. The ability of the system to mainta	O), pH, width, depth, see relate to the overall	erosion and accising. Y measuring tape, water	ase excessive stream bank fou will need a sathera, 100-foot quality kit, climboard, data logger , and this check sheet.
Stream type	Perennial (year-round	Inermitt	ent(Ceasonal)
Photo station	Perpendicular	Oblique	ostream
Current precipitation year	WetNorm	mal Dry	
Channel type	Entrenched: Slightl Confined: Poor		Deeply Well
Channel pattern	Straight Sligh	tly sin Mear	ndering Braided
Stream gradient	Steep (>19X)	Moderate (4–10%) _	Gentle (<10%)
Vegerator	Avpeal riparian.	<b>)</b> erennial, water-loving sp	ecies dominate
		erennial, water-loving sp	
		erennial, water-loving sp	
			cies replaced by upland species
2			1 7 1 1
List he three most abundan	t meco invertebrates fo	ound.	
( , , , ,			
· 0 · //			
List other species found (su	ch as fish, snails, crayfis	sh).	
Water turbidity (sediment/m	nuddy) Clear	Moderate	Extreme

#### Stream flow data record

To determine stream flow (cubic feet per second = ft³/sec), observers should take measurements at three different sites along the section of stream they are studying. The measurements will include width, depth, velocity, and streambed roughness. Use the following table to help with your calculation.

			(	Dep			)		*Streambed	
Site #	Width (w)	1	(average o	of 5 tocai 3	tions acr	oss strea   5	Avg.	Velocity (v)	roughness (a)	
Site 1										•
Site 2										<b>–</b>
Site 3										_ ئم
Average										
To calcul each mea	late stream fl asurement at	ow rate the thre	e (r), use ee sites in	the infor	ormatio mula: r	0.8; sm n on the = w x d	ooth muce above d		e <b>average</b> value	Signo
To calcul each mea Stream fl r	late stream flasurement at low =w	ow rate the thre	e (r), use ee sites in d	the infor	ormatio mula: r	0.8; sm n on the = w x d	e above d	ata chart Use th	e average value	jatalo
To calcul each mea Stream fl r	late stream flasurement at low =w	ow rate the thre x a reco	e (r), use ee sites in d	the infor	ormatio mula: r x	n on the = w x d	e above d	ata chart Use th	e average value	jatalo
To calcul each mea Stream fl r	late stream flasurement at low =w	ow rate the thre	e (r), use ee sites in d	the infor	ormatio mula: r x v	n on the = w x d	e above d	ata chart Use th	e average value	Satal C
To calcul each mea Stream fl r Tempe	late stream flasurement at low =w  rature dat  Air te	ow rate the thre x a reco	e (r), use ee sites in d	e the inforthe the for	ormatio mula: r x v	n on the = w x d	e above d	ata chart Use th	e average value	
To calcul each mea Stream fl r	late stream flasurement at low =w  rature dat  Air te	ow rate the thre x a reco	e (r), use ee sites in d	e the inforthe the for	ormatio mula: r x v	n on the = w x d	e above d	ata chart Use th	e average value dec	32) = °F
To calcule ach measure Stream flar  Temperature Site 1	late stream flasurement at low =w  rature dat  Air te	ow rate the thre x a reco	e (r), use ee sites in d	e the inforthe the for	ormatio mula: r x v	n on the = w x d	e above d	ata chart Use th	e average value	32) = °F

Stream flow = _		X	_ x	X		_ =	ft ³ /sec
r	W	d		V	a		•

#### Temperature data record

_	Air	temperat	ture	Wa	ater tempe	erature			
	°C	°F	Time	°C	°F	Time			
Site 1					7				
Site 2					7 ,	0,			
Site 3			-		1,0	, ,(			

•	9 x	(°C +	- 32)	=°F
	_	<b></b>	22	

$$\frac{5 \times (^{\circ}F - 32)}{9} = ^{\circ}C$$

### pH data record

	Sample 1	Saurie 2	Sample 3	rage
Site 1			), ~(	•
Site 2	0			
Site 3	6	5	4	

	Sample 1	Sangle 2	Sample 3	Average	Time
Site 1		<i>`</i> ,'			
Site 2	114				
Site 3	No				

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Obser	Time Weather Kind f wildlife seen? Where seen? What was the animal doing? Where does the animal live/hide?	6:4 cm sunny Doug as squirrel 2 in bird feeder eating sunflower seeds in bigleaf maple tree								(2) (2) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4			\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
4-H Wildlife Of	Species Date Time	Example   6/7/02   6:4 <b>2 gm</b>   sw	· · ·	2	3	4	5	9	7	8	6	10	11	12	13	14	

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Species Date	Time Weather Bind of wildlife	How many seen?	Where seen?	What was the animal doing?	Where does the animal live/hide?
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