

Skagit Conservation District  
**The 10 Essentials**  
Checklist for Rural Landowners



# Introduction

## **Essential 1: Know Your Property**

The first of the 10 Essentials is to simply have a basic knowledge of your property. The more you know, the more effectively you can manage your land.

## **Essential 2: Water Conservation & Well Protection**

As the population continues to grow in the Northwest, so do the demands on our water supply. Water conservation and well protection are more important than ever to ensure that we have plenty of clean, safe drinking water for people and wildlife.

## **Essential 3: Septic Care & Maintenance**

Taking care of your septic system can save you big money in the long run. It's also important for water quality—a failed septic system can cause waste to leak into our groundwater, streams, rivers and lakes. How septic savvy are you?

## **Essential 4: Weeds & Pesticide Use**

An ounce of prevention is worth a pound of cure when it comes to weeds and pests. Taking steps to avoid the need for pesticides can save you time, money and trouble. It can also keep dangerous pesticides out of our water.

## **Essential 5: Hazardous Substance Safety**

Potentially hazardous products such as paints, solvents, oils, fertilizers and pesticides require special care when it comes to storage and disposal.

## **Essential 6: Manure Management**

If you've got livestock, you've got manure. A good manure management plan can mean the difference between a mountain and a molehill—it can also mean the difference between clean and polluted water.

## **Essential 7: Livestock Pastures & Confinement**

Pastures full of mud can lead to higher vet bills and increased water contamination from soil and manure. A pasture full of healthy grass is good for livestock and prevents pollution by holding soil in place and absorbing nutrients from manure.

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## Essential 8: Woodlot Management

A well managed woodlot can contribute to your income, reduce water pollution, provide habitat for wildlife and help reduce the impacts of periodic flooding. How is the health of your woodlot?

## Essential 9: Fish & Wildlife Habitat

Some kinds of wildlife are probably more welcome on your property than others. For example, swallows provide natural, effective mosquito control while mice can cause hundreds of dollars worth of damage. What are you doing to encourage the wildlife you want and discourage the wildlife you don't?

## Essential 10: Cropland

Certain irrigation and erosion control techniques can prevent soil, fertilizers and pesticides from entering our water. Even better, the same techniques that prevent pollution can also keep valuable topsoil where you want it...on your land.

# Essential 1: Know Your Property

The first of the 10 Essentials is to simply have a basic knowledge of your property and where your property is located. The more you know, the more effectively you can manage your land. See how much you already know by filling in the answers below.

I live in the \_\_\_\_\_ watershed in **incorporated/unincorporated** (circle one) Skagit County.

I know my property's zoning, acreage and square footage.

Current Zoning: \_\_\_\_\_ Total Acreage: \_\_\_\_\_

Total square footage (one acre = 43,560 square feet): \_\_\_\_\_

Parcel Numbers: \_\_\_\_\_

The area I live in receives approximately \_\_\_\_\_ inches of rain each year.

The predominant soil type on my property is \_\_\_\_\_

I am able to estimate the percentage of impervious surface on my property. (Impervious surface includes roof, driveway, patios, outbuildings, etc.) Approximate percentage of impervious surface \_\_\_\_\_ %

# Resources

## **What watershed do you live in? Visit the USGS Water Science Center**

*[wa.water.usgs.gov/realtime/rt\\_latest\\_map.html](http://wa.water.usgs.gov/realtime/rt_latest_map.html)*

## **For property and zoning information**

*[www.skagitcounty.net](http://www.skagitcounty.net) (click on the iMap image. You may also click on the Assessor tab to look up your parcel numbers)*

## **For rainfall averages**

*[www.countrystudies.us/united-states/weather/washington/](http://www.countrystudies.us/united-states/weather/washington/)*

## **Want to know your property's soil type? Call the Natural Resource Conservation Service at 360-428-7758 ext. 5 or visit**

*[websoilssurvey.nrcs.usda.gov/app/](http://websoilssurvey.nrcs.usda.gov/app/)*

*or*

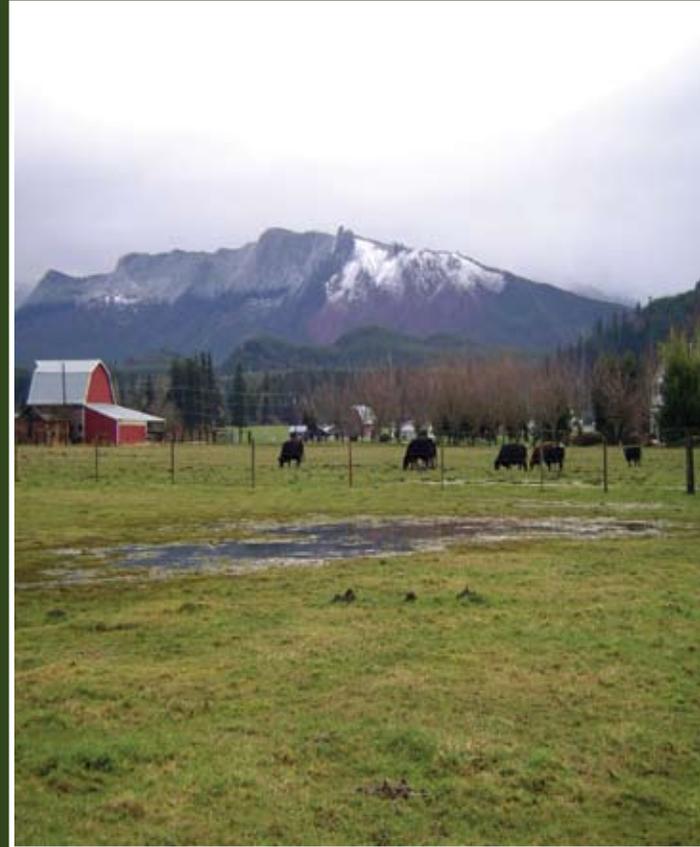
*[soils.usda.gov/](http://soils.usda.gov/)*

## **For tips on ways to reduce impervious surface on your property, visit**

*[nemo.uconn.edu/tools/stormwater](http://nemo.uconn.edu/tools/stormwater)*

*or*

*[www.recycleworks.org/greenbuilding/sus\\_impervioussurfaces.htm](http://www.recycleworks.org/greenbuilding/sus_impervioussurfaces.htm)*



# Essential 2: Water Conservation & Well Protection

As the population continues to grow in the Northwest, so do the demands on our water supply. Water conservation and well protection are more important than ever to ensure that we have plenty of clean, safe drinking water for people and wildlife.

I conserve water by doing the following (check those that apply):

- I use water-saving fixtures such as low-flow toilets and faucet aerators.
- I only water/irrigate during the evening or early morning hours.
- I use mulch in my garden and landscape to conserve moisture in the soil and reduce the need for watering.
- I use rain barrels, cisterns or other techniques to collect rainwater.
- I only water my lawn as needed. (Grass only needs an inch of water per week, *at most*.)
- Any unused or abandoned wells on my property have been properly plugged or sealed to prevent groundwater contamination.

# Resources

**For more information on safe drinking water contact:**

**Skagit County Public Health (Phone: 360-336-9380)**

*[www.skagitcounty.net/health](http://www.skagitcounty.net/health)*

**Washington State Department of Health**

*[www.doh.wa.gov/ehp/dw/](http://www.doh.wa.gov/ehp/dw/)*

**For more information on rain barrels and cisterns, visit**

*[www.skagitpud.org](http://www.skagitpud.org)*

**For more information on water conservation, visit**

*[www.bewatersmart.net](http://www.bewatersmart.net)*

**DID  
YOU  
KNOW ?**

Skagit Valley receives less average rainfall than Atlanta, Baltimore, Houston, Memphis, Miami, New York & Philadelphia.



# Essential 3: Septic Care & Maintenance

Taking care of your septic system can save you big money in the long run. It's also important for water quality—a failed septic system can cause waste to leak into our groundwater, streams, rivers and lakes. How septic savvy are you?

- I have my septic system inspected at least every three years and pumped as needed.

Date of most recent inspection: \_\_\_\_\_

- I avoid system overload by spreading water-intensive chores (such as laundry) throughout the day and week.
- I never put garbage down the drain or in toilets.
- I avoid products that kill the beneficial bacteria in the system, such as lye-based drain cleaners and household cleaning products with a danger or toxic warning label.
- Livestock, vehicles and heavy equipment are excluded from my drain field and tank area.

# Resources

**For information on septic maintenance:**

**Skagit County Health Department (Phone: 360-336-9380)**

*[www.skagitcounty.net/septic](http://www.skagitcounty.net/septic)*

***Septic Sense, Scents, Cents***

A guide to septic tank care and maintenance.

*<http://wsg.washington.edu/mas/pdfs/SepticSense.pdf>*

**Environmental Protection Agency**

A Homeowner's Guide to Septic Systems

*[http://epa.gov/owm/septic/pubs/homeowner\\_guide\\_long.pdf](http://epa.gov/owm/septic/pubs/homeowner_guide_long.pdf)*

**DID  
YOU  
KNOW ?**

Using a garbage disposal frequently can dramatically increase the accumulation of sludge in your septic tank, causing you to have it pumped more often.



# Essential 4: Weeds & Pesticide Use

An ounce of prevention is worth a pound of cure when it comes to weeds and pests. Taking steps to avoid the need for pesticides can save you time, money and trouble. It can also keep dangerous pesticides out of our water.

- I frequently survey my property for weeds and pests to enable early detection.

Weeds and pests that have been identified on my property and targeted for control:

---

I mow my pastures/fields at least once during the growing season before weeds have a chance to go to seed.

- Yes       No       Does Not Apply

- I consider biological controls (such as fly predators and nematodes), cultural controls (changes in watering, fertilizing techniques, etc.) and mechanical controls (e.g., hand weeding, pruning out infested branches, dethatching turf) before using pesticides and herbicides.
- When using pesticides and herbicides, I choose the least toxic product and apply it at the most effective time in the life cycle of the target weed or pest.

# Resources

**For information on weeds and pest control:**

## **WSU Publications**

(search here for weed and pest bulletins): [pubs.wsu.edu](http://pubs.wsu.edu)

## **WSU Skagit County Extension Agriculture Program**

call 360-428-4270

## **Pacific Northwest Weed Management Handbook**

[www.pnwpest.org/pnw/weeds](http://www.pnwpest.org/pnw/weeds)

## **Skagit County Noxious Weed Control Board**

[www.skagitcounty.net/noxiousweeds](http://www.skagitcounty.net/noxiousweeds)

## **Skagit Conservation District**

[www.skagitcd.org](http://www.skagitcd.org)

## **Salmon Safe**

[www.salmonsafe.org](http://www.salmonsafe.org)

## **Biological control: A Guide to Natural Enemies in North America,**

published by Cornell University:

[www.nysaes.cornell.edu/ent/biocontrol/](http://www.nysaes.cornell.edu/ent/biocontrol/)

**Washington Toxics Coalition** publishes fact sheets on safe ways to deal with a variety of pests:

[www.watoxics.org/homes-and-gardens/lawn-and-garden](http://www.watoxics.org/homes-and-gardens/lawn-and-garden)

(scroll down to find fact sheets on common outdoor pests)



# Essential 5: Hazardous Substance Safety

Potentially hazardous products such as paints, solvents, oils, fertilizers and pesticides require special care when it comes to storage and disposal. How are you doing when it comes to hazardous substance safety?

I dispose of hazardous substances such as antifreeze, oil, paints and solvents at approved locations. I never pour hazardous substances down a sink or storm drain, in a ditch or on the ground.

I avoid storing or using pesticides and other chemicals near wells, streams, ditches and other waterways.

Yes       No       Does Not Apply

Pesticides and other chemicals are stored in an area that is:

Covered     Paved     Locked     Surrounded by a berm

I keep supplies on hand to clean up spills, such as spill pads, hydrated lime or kitty litter.

# Resources

**For information on the disposal of household hazardous waste, visit this Skagit County website**

*[www.skagitcounty.net/recycle](http://www.skagitcounty.net/recycle)*

**For information on safe cleaning products, lawn and garden chemicals, indoor pest control chemicals, and home repair and building materials, visit the Washington Toxics Coalition website**

*[www.watoxics.org/homes-and-gardens](http://www.watoxics.org/homes-and-gardens)*



**DID  
YOU  
KNOW ?**

One quart of oil can contaminate  
two million gallons of drinking water!

# Essential 6: Manure Management

If you've got livestock, you've got manure. A good manure management plan can mean the difference between a mountain and a molehill—it can also mean the difference between clean and polluted water. How is your manure management plan working for you?

I have a successful system for managing manure. To avoid the buildup of excess manure, I regularly:

- Compost (composting can reduce the size of a manure pile by half!)
- Spread compost on pastures and crops
- Give away/sell manure or compost
- Haul away excess
- Other

Manure is stored at least 100 feet away from my well, streams, ditches and other waterways. There is also a buffer strip of healthy vegetation downslope of my manure storage area.

- Yes       No       Does Not Apply

- I only spread manure/compost during the growing season (April-October).
- My manure storage area is covered with a tarp, roof or other cover.
- Manure is picked up from stalls and confinement areas on a regular, frequent basis.

# Resources

**For more information on manure management, visit:**

**Skagit Conservation District**

[www.skagitcd.org](http://www.skagitcd.org)

**Natural Resources Conservation Service**

[www.nrcs.usda.gov](http://www.nrcs.usda.gov)

**WSU Extension**

[gardening.wsu.edu/stewardship/compost/compost.htm](http://gardening.wsu.edu/stewardship/compost/compost.htm)

**Cornell University**

[www.manuremanagement.cornell.edu](http://www.manuremanagement.cornell.edu)

**Horses for Clean Water**

[www.horsesforcleanwater.com](http://www.horsesforcleanwater.com)

**To learn more about buffer strips, visit**

[www.nrcs.usda.gov/feature/buffers/](http://www.nrcs.usda.gov/feature/buffers/)



# Essential 7: Livestock Pastures & Confinement

If you own livestock, good pasture management is one of the key essentials. Pastures full of mud lead to higher vet bills and increased water contamination from soil and manure. A healthy pasture with healthy grass will hold soil in place and absorb nutrients from manure.

During the winter I remove my livestock from pastures and put them in a dry, well-drained paddock.

Yes       No       Does Not Apply

During the growing season (April-October) livestock are allowed to graze in areas where the grass is at least six to eight inches tall. Livestock are removed from pastures when grass has been grazed down to about three inches.

Yes       No       Does Not Apply

My livestock shelters have gutters and downspouts that direct roof runoff away from animal confinement areas and manure storage areas.

Yes       No       Does Not Apply

Streams and ditches on my property are fenced to prevent livestock access.

Yes       No       Does Not Apply

I routinely have my soil tested to determine the level of available nutrients in the soil. I use this information to guide the application of compost, fertilizer and lime to pastures.

# Resources

Check out these websites for information on issues such as soil testing, winter paddocks, buffer strips, rotational grazing, stream fencing, gutters and more.

## Skagit Conservation District

[www.skagitcd.org](http://www.skagitcd.org)

## WSU Organic Farming Systems

[www.puyallup.wsu.edu/soilmgmt/soils.htm](http://www.puyallup.wsu.edu/soilmgmt/soils.htm)

## Natural Resources Conservation Service

[www.nrcs.usda.gov](http://www.nrcs.usda.gov)

## WSU Skagit County Extension

[www.skagit.wsu.edu](http://www.skagit.wsu.edu)

## Horses for Clean Water

[www.horsesforcleanwater.com](http://www.horsesforcleanwater.com)



# Essential 8: Woodlot Management

A well managed woodlot can contribute to your income, reduce water pollution, provide habitat for wildlife and help reduce the impacts of periodic flooding. How is the health of your woodlot?

When planting new trees, I select species adapted to my site, plant at the appropriate time of year (January-March) and remove competing vegetation within a one-foot radius around the trunk.

- Yes       No       Does Not Apply

Dominant tree species in my woodlot: \_\_\_\_\_

- I protect trees from browsing, rubbing, trampling and soil compaction by livestock.
- The trees in my woodlot are spaced far enough apart to allow some sunlight to reach the plants growing on the ground.
- I retain some dead and fallen trees as wildlife habitat (as long as they do not pose a hazard to people, livestock or structures).

# Resources

**For information, visit:**

**Skagit Conservation District Forestry Program**

*[www.skagitcd.org](http://www.skagitcd.org) or call 360-428-4313*

**WSU Extension**

*[snohomish.wsu.edu/forestry](http://snohomish.wsu.edu/forestry) or call 206-205-3132*

**Washington State Department of Natural Resources, Resources for Small Forest Landowners**

*[www.dnr.wa.gov/Publications/fp\\_sflo\\_resourcesforsflo.pdf](http://www.dnr.wa.gov/Publications/fp_sflo_resourcesforsflo.pdf)*

**Natural Resources Conservation Service – EQIP Program**

*<http://www.wa.nrcs.usda.gov/programs/eqip/forestry/>*

*or call 360-428-7758 ext. 132*

**Firewise Communities/USA**

*[www.firewise.org](http://www.firewise.org)*



**DID  
YOU  
KNOW ?**

About 400 species of wildlife depend on Washington forests for their survival.

# Essential 9: Fish & Wildlife Habitat

Some kinds of wildlife are probably more welcome on your property than others. For example, swallows provide natural, effective mosquito control while mice can cause hundreds of dollars worth of damage. What are you doing to encourage the wildlife you want and discourage the wildlife you don't?

Streambanks, wetlands and other waterways on my property are lined with a protective buffer strip of trees, shrubs, grasses and ground cover. (Recommended buffer width is typically 50-100 feet.)

- Yes       No       Does Not Apply

Types of vegetation in buffer strip: \_\_\_\_\_

I provide habitat for wildlife with the following:

- Nest boxes designed for native birds       Non-living trees such as standing snags and downed logs  
 Diverse mix of grasses, shrubs and trees, including natives       Mason bee houses and bat houses

To prevent nuisance wildlife (such as rodents, opossums, coyotes and raccoons), I put dog and cat food away at night and keep trash bins secured.

- Yes       No       Does Not Apply

To reduce breeding grounds for mosquitoes:

- I have removed old tires and other items that could collect water.  
 I clean my rain gutters out regularly and make sure they drain properly.  
 I empty and refill pet dishes and birdbaths once a week.

# Resources

## **Backyard Conservation Stewardship Program**

[www.skagitcd.org](http://www.skagitcd.org) (click on Backyard Conservation Link)

## **Riparian forest buffers for fish and wildlife**

[www.skagitcd.org](http://www.skagitcd.org) (click on CREP link)

## **National Wildlife Federation: Garden for Wildlife**

[www.nwf.org/gardenforwildlife](http://www.nwf.org/gardenforwildlife)

## **Washington Dept of Fish & Wildlife**

Backyard Wildlife Program: [wdfw.wa.gov/wlm/backyard/](http://wdfw.wa.gov/wlm/backyard/)

Living with Wildlife: [wdfw.wa.gov/wlm/living/](http://wdfw.wa.gov/wlm/living/)

## **Audubon: An Invitation to a Healthy Yard**

[www.audubonathome.org/yard/](http://www.audubonathome.org/yard/)

## **WSU Extension- Native plants**

[gardening.wsu.edu/nwnative/](http://gardening.wsu.edu/nwnative/)

## **Washington Native Plant Society**

[www.wnps.org/](http://www.wnps.org/)

## **Skagit County Lake Management Districts**

[www.skagitcounty.net/publicworks/](http://www.skagitcounty.net/publicworks/) (click on Water Resource Management)

## **Reducing mosquito habitat**

[www.skagitcounty.net/health/](http://www.skagitcounty.net/health/)

## **Pollinator Conservation**

[www.xerces.org/](http://www.xerces.org/)



# Essential 10: Cropland

Certain irrigation and erosion control techniques can prevent soil, fertilizers and pesticides from entering our water. Even better, the same techniques that prevent pollution can also keep valuable topsoil where you want it...on your land.

I use farming practices that minimize soil erosion and increase water infiltration, such as:

- Cover crops, mulching and grassed access roads.
- Vegetated field borders, filter strips and planted buffers.
- Contour farming, terracing, windbreaks and conservation tillage.
- Crop rotation that includes perennial or high residue crops.
  
- I minimize irrigation demands by selecting crops suited to our local climate.
  
- I follow an irrigation program that monitors water use and soil moisture. I adjust water applications to meet crop moisture needs and avoid water loss due to surface runoff or deep percolation.
  
- I routinely test plant tissue and soil to determine plant needs and the level of available nutrients in the soil. I use this information to guide the application of compost, fertilizer and lime to crops.

# Resources

Visit these websites for information on erosion control, irrigation, plant tissue testing and a variety of other issues:

## **WSU Skagit County Extension Agriculture**

*[Skagit.wsu/agriculture/](http://Skagit.wsu/agriculture/)  
or call 360-428-4270*

## **WSU Small Farm Connection**

*[smallfarms.wsu.edu/crops/](http://smallfarms.wsu.edu/crops/)*

## **Natural Resources Conservation Service**

*[www.nrcs.usda.gov/](http://www.nrcs.usda.gov/)*

## **Pacific Northwest Regional Water Program**

*[www.pnwwaterweb.com/](http://www.pnwwaterweb.com/)*

## **Northwest Integrated Pest Management**

*[www.nwipm.info/industlinks.asp](http://www.nwipm.info/industlinks.asp)*

## **Salmon Safe**

*[www.salmonsafe.org](http://www.salmonsafe.org)*



# Notes and Records

Use this space to make notes, keep records or write your to-do lists. For example, record results of soil or well tests, dates of septic inspections or weed and pest control actions. You may also want to use this space to sketch a map of your property, noting key features like your septic drainfield, plant and tree varieties or soil types. This information will be helpful for your own memory and may someday be useful for any future owners of the property.



# Notes and Records



# Thanks for doing your part to protect our natural resources!

For more information, contact the Skagit Conservation District at (360) 428-4313  
or visit our website at [www.skagitcd.org](http://www.skagitcd.org)



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WA Department of Ecology and the WA Conservation Commission



Landowner Name: \_\_\_\_\_

Property Address: \_\_\_\_\_

\_\_\_\_\_

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Adaptations by Cindy Pierce, Skagit CD and Andrew Phay, Whatcom CD.