Windbreak Technology Workshop

Objectives

- Identify and detect wind-related and air quality problems and other environmental concerns to determine the need for windbreaks or other wind control practices.
- Describe windbreak functions, benefits, and principles of design.
- Determine areas to be protected (structures, sites, fields), inventory their present condition, and recognize the use of windbreaks and related practices.
- Prepare cost-effective alternatives including windbreaks that meet cooperator objectives, and solve wind related and air quality resource problems.
- Assemble and present site-specific windbreak planting plans as part of a conservation management system including design, site preparation, planting, and maintenance.

Time	Proposed Agenda	Instructor (see end notes)
Tuesday		
8:00 am	Welcome	Instructor
8:10 am	Course objectives, expectations for participants, content, schedule	Facilitator
8: 20 am	My turn (participant introductions and windbreak experiences)	Participants
8: 50 am	Pre-test Pre-test	Participants
9:15 am	Break	
9:30 am	How windbreaks function (climatic and physical effects)	Instructor
10:30 am	Break	
10:45 am	Site assessment and soil capabilities	Instructor
11:15 am	Snow management with windbreaks	Instructor
11:45 am	Lunch	
12:45 pm	Resource needs for structures, livestock shelters and other types of sites	Instructor
1:30 pm	Planning considerations for aesthetics and wildlife	Instructor
2:00 pm	Break	
2:15 pm	Windbreak site preparation, planting and maintenance options	Instructor
3:00 pm	Break	
3:15 pm	Water use needs for windbreaks	Instructor
3:45 pm	Economics of windbreaks	Instructor
4:15 pm	Producer testimony & overview of tomorrow	Instructor
5:00	Adjourn	

Time	Agenda (continued)	Instructor
Wednesday		
8:00 am	Inventory and evaluation – introduction to field trip	Instructors
8:30 am	Leave for field & evaluate field sites	Instructors
	Living snow fence	
	Shelterbelt	
	Renovation	
12:00 pm	Lunch (sack lunch needed) & travel to PMC	
1:00 pm	Plant Material Center tour	PMC Host & Instructors
	Woody program	
	Demonstration – site preparation, tree planter, fabric layer, tree protectors, competition control	
3:30 pm	Site assessment for planning exercise	Instructors
4:00 pm	Return to Billings	
5:00 pm	Adjourn	
Thursday		
8:00 am	Windbreak design options	Instructor
8:30 am	Wildlife enhancement options	Instructor
9:00 am	Windbreak renovation	Instructor
9:30 am	Break	
9:45 am	Field planning site inventory and evaluation	Instructor
10:15 am	Conservation buffer guidelines	Instructor
10:45 am	Introduction to planning exercise	Instructor
11:00 am	Develop alternatives for planning exercise site including key complementary actions	Participants (facilitated by instructors)
11:45 pm	Lunch	
12:45 pm	Develop field windbreak alternatives for planning exercise site including key complementary actions (continued)	Participants (facilitated by instructors)
1:30 pm	Present and defend alternatives with instructor/peer critiques (4 groups)	Participants
2:30 pm	Break	
2:45 pm	Present and defend alternatives with instructor/peer critiques (4 groups)	Participants
3:45 pm	Post test	Participants & Instructor
4:15 pm	Wrap-up and adjoum	Facilitator

Notes:

• Windbreak renovation video available for last day if time allows (30 minutes)