Skyline Analysis With SkylineXL and Timber Sale Appraisals With LogCost and HaulCost

TWO SEPARATE WORKSHOPS: ATTEND ONE OR BOTH.

Workshop #1
Skyline Analysis With SkylineXL
April 2, 2013

Workshop #2
Timber Sale Appraisals With LogCost and HaulCost
April 3, 2013

Sponsored by

Pacific Northwest Region
USDA Forest Service

Western Forestry and Conservation Association

April 2-3, 2013 • Holiday Inn • Springfield, OR
Skyline Analysis With SkylineXL
Workshop #1 • April 2, 2013

SkylineXL is a free public domain spreadsheet developed by the USDA Forest Service and Oregon State University. It uses an MS Excel Workbook to analyze ground or map profiles for skyline yarding systems to determine where to place skyline landings, skyline yarding boundaries, and the results of skyline payload capabilities. SkylineXL covers 4 different skyline configurations: standing skyline, multispan skyline, running skyline and live skyline. The Workbook includes a database of widely used yarder and carriage combinations which can be applied to the user’s skyline profile to model configurations for skyline yarding objectives. SkylineXL has replaced the widely used LoggerPC and is compatible with XP Pro and Windows 7.

Attendees will need to bring a laptop with MS Office Excel 2007 or 2010 or be able to share a laptop since the workshop will include class exercises on the SkylineXL Workbook. Attendees should load SkylineXL 3.02 prior to the workshop or at the workshop. Attendees will receive laminated skyline yarding design sheets for field ring binders.

SkylineXL_3_02.xlsm can be downloaded for free at:
ftp://ftp2.fs.fed.us/incoming/r6/ro/toupin/Programs/SkylineXL/

8:30 Introduction to SkylineXL: Review of skyline yarding systems terminology, deflection and yarder anatomy.

9:30 Break

9:45 Profile Input: Attendees will input actual field profile traverse notes into SkylineXL to model a skyline profile. A variety of Profile management attributes will be covered. A demonstration will be offered on pulling up a GIS map profile created from digital elevation and lidar models.

10:45 Break

11:00 SkylineXL Yarders and Carriages: Matching a carriage to a yarder. Adding new yarders or carriages.

Noon Lunch (included with registration)

1:00 Single Span Skyline Analysis: Attendees will fit a Single Span Standing Skyline to the sample profile by adjusting Skyline yarding parameters. The exercise will help users develop a skyline yarding design that maximizes yarding distance while achieving feasible payloads at the landing.

2:00 Break

2:15 Multispan Skyline Analysis: Attendees will fit a Multispan Skyline to a sample profile by adjusting Skyline yarding parameters. The Skyline XL warning features will be highlighted which alert users to deficiencies in selected yarding system designs.

3:15 Ground Truthing Your Analysis: Taking your SkylineXL analysis to the field to verify landing locations, tail tree locations, intermediate support locations, and skyline yarding boundaries.

4:00 Adjourn

Timber Sale Appraisals With LogCost and HaulCost
Workshop #2 • April 3, 2013

LogCost and HaulCost are public domain spreadsheets developed by the USDA Forest Service. These free and easy-to-use MS Office Excel Workbooks estimate stump-to-truck and landing-to-mill costs. LogCost can be used under a variety of user inputted logging systems and equipment configurations for: skyline, mechanized, tractor, shovel, and helicopter logging. The Workbook is capable of appraising the logging costs of individual harvest units or timber sales that utilize the logging systems above. Each Workbook uses current equipment and labor costs used in federal timber sale appraisals.

HaulCost calculates hauling cost from the landing to the mill or log yard. Users input log truck characteristics, roundtrip time and mileage between landing and mill to estimate the hauling cost.

Attendees will need to bring a laptop with MS Office Excel 2007 or 2010 or be able to share a laptop since the workshop will include class exercises on LogCost and HaulCost. Attendees should load both files to their computers prior to the workshop or at the workshop.

LogCost12_02.xlsm can be downloaded at:
ftp://ftp2.fs.fed.us/incoming/r6/ro/toupin/Programs/LogCost/

HaulCost08.xlsm can be downloaded for free at:
ftp://ftp2.fs.fed.us/incoming/r6/ro/toupin/Programs/HaulCost/

8:30 Introduction to LogCost Stump to Truck Appraisals. Orientation to costing workbooks and spreadsheet macros.

9:15 Break

9:25 Falling and bucking costs.

10:25 Break

10:50 Mechanized logging appraisals: harvester, feller buncher, forwarder, and biomass and chipping components.

Noon Lunch (included with registration)

1:00 Tractor skidding logging appraisals

2:00 Shovel logging appraisals

2:45 Break

3:00 Skyline logging appraisals: yarder/tower combination, prebunching with mechanized felling equipment and skyline tractor swing option.

4:30 HaulCost Landing to Mill Appraisals: Hauling time and distance from landing to mill, truck and trailer combinations, round trip minute sensitivity analysis.

5:00 Adjourn
About the Speaker: Mike Barger

Mike Barger graduated from Humboldt State University in 1979 with a Bachelor of Science in Logging Engineering and obtained his Land Surveyor-In-Training License from the State of California. He began his professional career with the US Forest Service as a Transportation Planner on the Willamette National Forest and then as a Timber Sale Administrator. Mike transferred into timber sale preparation on the Siskiyou National Forest in 1984, and became their District Logging Specialist in 1986.

He transferred to the Tongass National Forest in 1991, and contributed to the logging engineering and field preparation of the final years of the 50 year Long Term Timber Sale Contract with the Ketchikan Pulp Company. He transferred back to the lower 48 in 1996 as the District Logging Specialist on the Winema National Forest. Mike then transferred to the BLM as the Area Logging Specialist in Salem, Oregon from 1999 to 2011. Mike is currently the Inter-Regional Logging Engineer for the US Forest Service in the Pacific Northwest and California regions as well as the Oregon/Washington Bureau of Land Management.

Mike conducts logging system and field unit layout trainings regularly throughout Washington, Oregon and California based upon his 27 years of successful logging engineering experience with the US Forest Service and BLM. He is a member of the Forest Activity Rules Committee of Oregon OSHA and a member of the Advisory Committee for Western Regional Council of Forest Engineering. Mike Barger has performed skyline analysis and empirical skyline appraisals since 1984.

REGISTRATION FORM

Name ________________________________________________

Organization Or Affiliation ________________________________________________

Address ________________________________________________

City, State, Zip ________________________________________________

Email ________________________________________________ Tel __________________

REGISTRATION

Workshop 1 or 2  BEFORE March 26  $195 ________

Workshop 1 or 2  AFTER March 26  $245 ________

Workshop 1 □  Workshop 2 □ (please check one)

Both Workshops  BEFORE March 26  $275 ________

Both Workshops  AFTER March 26  $325 ________

PAYMENT METHOD

1. Please make check payable to:
WFCA
4033 SW Canyon Rd. • Portland OR 97221

503-226-4562 • 888-722-9416 • FAX: 226-2515

2. Purchase order # ____________________

3. Charge to:  MC  VISA  AmEx (please circle)

Account # ____________________________________________

Expiration Date ___________ Security Code _____________
(on back of card)

4. Register online at www.westernforestry.org

Questions? Give us a call or email.

Western Forestry and Conservation Association
Call 888-722-9416 or 503-226-4562
annie@westernforestry.org

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Workshop Location
The workshop will be held at the Holiday Inn Eugene-Springfield at 919 Kruse Way, Springfield, OR. The hotel can be reached at 541-284-0707.

Lodging Information
Reduced rate lodging is available at the Holiday Inn by calling 541-284-0707 and by mentioning skyline logging workshop. The rate for a single room or double room is $99 plus tax. After March 11, 2012 the reduced rate will be subject to availability. Call 541-284-0707 for reservations.

Registration
The registration fee is $195 for either workshop individually or $275 for both workshops if received by March 26 or $245 for individual sessions and $325 for both sessions if received after March 26. The registration fee includes lunch and refreshments. Checks should be made payable to Western Forestry and Conservation Association. Purchase orders, VISA/MasterCard, and American Express are accepted. Tax id # 930-331-712. No refunds for cancellations after March 26, but substitutions are always welcome. Registration is available on line at www.westernforestry.org.

SAF CFE Credits
April 2nd workshop attendees will be eligible for 6.5 CFE credits in Cat. 1 and April 3rd workshop attendees will be eligible for 7.0 CFE credits in Cat.1 through the Society of American Foresters.

Registration questions?
Call Annie at (888) 722-9416 or (503) 226-4562 or annie@westernforestry.org.

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