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MEMORANDUM

To: Wetlands Colleagues

From: Dana Field

RE: Errata Sheet; HGM Function Assessment calculator now available

Errata:
In response to extensive trials and feedback from users, we have located a few errors in the Willamette HGM guidebooks and Statewide Profiles. Wording of a few indicators has been changed to clarify the intent and improve consistency. Also, divisors used in three of the function models in the published document were incorrectly stated as being the ones used to compute scores of the reference sites. Please take a moment to pencil these changes into your documents.

In the published document, Volume 1A, you should make the following changes to the divisors:

page 21, Water Storage and Delay: in the column "Slope/Flats (SF)" and the row "Least Altered standard,"change .85 to .45
page 23, Sediment Stabilization & Phosphorus Retention: in the column "Slope/Flats (SF)" and the row "Least Altered standard,"change 2.9 to 3.25
page 43, Songbird Habitat Support: in the row "Least Altered standard," change the divisor for Riverine Impounding from 3.68 to 3.36, and the divisor for "SF-historically not wooded" from 3 to 3.36

page 43, Songbird model: Substitute comma for plus so that formula reads as follows:
Score = {max of: [avg:(avg:B,C,D,E,F,G,H) , (AVG:I,J)] or [avg: (avg:K,L.M) , (avg:N,O)]}
and in the last line: Score = [avg: (avg: K,L,M), (avg: N,O)] + (avg: Q,R) + P + A

page 59 (Summary Form), Nitrogen Removal row, "Error! Bookmark not defined" should read "p. 25"

page 90, Anadromous Fish, right-hand (Minimal Functioning) column, row 2, should read,
"___Floodwaters enter most of the site entirely through a narrow channel, ditch, or pipe"

In addition, please make the following corrections to the Judgmental Method (Volume 1A, Appendix B):

page 95, last row of top box should read:

___None of the site is visited frequently by humans on foot in April-June		___All of the site is visited frequently by humans on foot in April-June

page 96, row 6 of the box should read:

___None of the site is visited frequently by humans on foot in September through April		___All of the site is visited frequently by humans on foot in September through April

then insert this row:

___Water quality is excellent		___Water is heavily contaminated with pollutants

Please make the following correction to **Volume 1B, Technical Report:**

page 38, 5th line from bottom of text, "Table xx" should read "Table 12"

Also, please note the following five changes in the related HGM *Statewide Classification and Profiles* Guidebook which you may have received earlier:

(1) page 7. Replace couplet #2 (second paragraph from the bottom) with the following:

2. Site receives significant marine-sourced water during all or part of the year. Often located within or along the fringes of a major estuarine embayment or a slough off the embayment, rather than adjacent to a narrower tidal river channel. Typically located within zones classified as "Marine" or "Brackish" on maps published by Hamilton (1984), the National Estuarine Inventory (NOAA 1988), and/or as "Estuarine" on maps of the National Wetland Inventory. The site and its immediate receiving waters have one or more of the following indicators suggestive of marine water: barnacles, stranded seaweed, salt marsh plant species, drift logs, springtime high tide minimum salinities of >5 ppt, or a preponderance (in adjacent flats) of rounded sediment particles indicative of marine-derived sediments.
YES: Estuarine Marine-sourced (EMS) subclasses (High Marsh EMS and Low Marsh EMS)
NO: Estuarine River-sourced (EMR) subclass

(2) page 8, footnote: replace "(in ft)." with "(in meters)"
(3) page 9. Change the numbering of the last couplet from 14 to 13. Immediately above it, similarly change "Go to 14" to "Go to 13."
(4) Additional references in this document to "Estuarine Fringe Embayment (EFB)" should be changed to "Estuarine Marine-sourced (EMS)", and "Estuarine Fringe Riverine (EFR)" should be changed to "Estuarine River-sourced (EMR)."
(5) The following references should be added to the Literature Cited section starting on page 105:

(p. 111) Hamilton, S.F. 1985. Estuarine mitigation: the Oregon process. Oregon Division of State Lands, Salem, OR.
(p. 117) NOAA. 1988. National estuarine inventory data atlas: physical and hydrologic characteristics: the Oregon estuaries. National Oceanic and Atmospheric Administration, U.S. Dept. of Commerce, Rockville, MD.

Finally, as you use these documents, we encourage you to send further comments and suggestions to Dana Field (Dana.Field@state.or.us) and/or Paul Adamus. Please update the email address for Paul Adamus to the following: adamus7@comcast.net).

HGM "Calculator":

At the request of many users, we are now providing an Excel spreadsheet for use with the Reference-based Method contained in the Willamette Valley Guidebook. The spreadsheet will automatically calculate wetland function capacity scores. Programming of the HGM scoring models as spreadsheet formulae was done pro bono by Paul Adamus with extensive assistance from Melinda Wood. DSL greatly appreciates their contribution.

The spreadsheets may be accessed at Paul Adamus' ftp site as follows: Type the following path into your internet browser: http://oregonstate.edu/~adamusp/ and download the files prefaced by "HGM". Or you may access them by downloading the free software, WS_FTP and typing the same address, with anonymous login.

If you are unable to download a copy from the ftp site, send an email containing your postal address to Heather.Howard@state.or.us with "HGM calculator" on the subject line or call Heather at 503-378-3805 ext 235.

Many users are currently applying the HGM Guidebook methods to estimate functional changes proposed as a part of wetland restoration and permitting activities. We encourage you to first run through a function assessment by hand, so that you understand how particular indicators are combined to assess specific functions. Thereafter, we suggest using these spreadsheets because that will help maintain consistency of results among users. The spreadsheets supercede the "short form" (Appendix P) contained on the CD that accompanied the original document. (Long-hand calculation of scores using the original document is still acceptable)

To use either of the spreadsheets, you will simply open the appropriate file in Excel and print a copy to take into the field. After doing the field assessment, you'll key your data onto the electronic page and double -check for accuracy. Function capacity scores will be computed automatically as you enter the data. Much time will be saved relative to long-hand calculation because you'll need only answer each question (datum) *once*. The indicators and scoring models in these spreadsheets are substantively the same as those in the original document (Adamus & Field 2001)