



# **Water Budget Update**

**ESHMC MEETING  
23 May 2011**

**B. Contor**

# Components

- CEL
- CNL
- DIV
- EFF
- ENT
- ETI
- FPT
- IAR
- MDL
- NIR
- OFF
- PCH
- PRE
- RED
- SOL
- TRB

# 30,000 Foot View

\* .CEL ✓

\* .CNL ✓

\* .DIV ←

\* .EFF ✓ →

\* .ENT ✓

\* .ETI ✓

\* .FPT ←

\* .IAR ✓

\* .MDL ✓

\* .NIR ←

\* .OFF ✓

\* .PCH

\* .PRE ✓

\* .RED ✓

\* .SOL ✓

\* .TRB ✓

# \*.CEL

- GIS shapefile of model grid

www.idwr.idaho.gov - /Browse/WaterInfo/ESPAM/model\_files/Version\_2.0\_Development/Current\_Data/ - Mozilla Fire

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Friday, November 19, 2010 8:22 AM	<dir> <a href="#">Canal Seepage Calculations Round 2</a>
Friday, May 13, 2011 6:54 AM	<dir> <a href="#">CanalSeepage</a>
Thursday, May 12, 2011 4:24 PM	414498 <a href="#">cnl by cell 20110219.dbf</a>
Thursday, March 10, 2011 3:31 PM	<dir> <a href="#">Crop Mix</a>
Monday, April 11, 2011 1:27 PM	<dir> <a href="#">Diversions</a>
Wednesday, April 06, 2011 5:10 PM	<dir> <a href="#">E110406A</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">ESPAM2 Model Boundary 20101011</a>
Thursday, July 16, 2009 10:17 AM	1200160 <a href="#">ESPAM2 Modl Grid 07 15 09b.zip</a>
Monday, September 14, 2009 4:35 PM	87066 <a href="#">ESPAM2 Offsite 09-14-09.zip</a>
Wednesday, August 26, 2009 2:00 PM	4928663 <a href="#">ESPAM2 Soils 08-26-09.zip</a>
Thursday, January 29, 2009 9:38 AM	82432 <a href="#">ESPAM2 StressPeriod Definition 20090129.xls</a>
Friday, April 15, 2011 4:46 PM	<dir> <a href="#">ET Adjustment Factors</a>
Tuesday, May 10, 2011 9:58 AM	<dir> <a href="#">ET 20110505</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">GIS Water Source Data</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">Ground water polygons</a>
Tuesday, May 10, 2011 10:03 AM	<dir> <a href="#">Irrigated Lands 20110511</a>
Wednesday, May 04, 2011 11:23 AM	<dir> <a href="#">MultiDrain3MaxPerCell</a>

# \*.CNL

- GIS shapefile of leaky canals
- Comma-delimited file of leakage rates

The screenshot shows a web browser window with the following details:

- Address bar: [http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model\\_files/Version\\_2.0\\_Development/Current\\_Data/CanalSeepage/](http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model_files/Version_2.0_Development/Current_Data/CanalSeepage/)
- Page Title: **www.idwr.idaho.gov - /Browse/WaterInfo/ESPAM/ /CanalSeepage/**
- Navigation: [To Parent Directory]
- File Listing:

Thursday, May 12, 2011 4:24 PM	414498	<a href="#">cnl by cell 20110219.dbf</a>
Thursday, May 12, 2011 4:24 PM	24444	<a href="#">cnl by cell 20110219.sbn</a>
Thursday, May 12, 2011 4:24 PM	1956	<a href="#">cnl by cell 20110219.sbx</a>
Thursday, May 12, 2011 4:24 PM	867588	<a href="#">cnl by cell 20110219.shp</a>
Thursday, May 12, 2011 4:24 PM	14628	<a href="#">cnl by cell 20110219.shx</a>
Thursday, May 12, 2011 4:24 PM	72970	<a href="#">E2 CNL DATA 20110219.csv</a>
Thursday, May 12, 2011 4:24 PM	114892	<a href="#">E2 New 20110219.cnl</a>

# \*.DIV

- Comma-delimited file of diversions
- Returns are zeroed out
- We're working on refinements of Mud Lake, maybe ready for ESPAM2.next?

www.idwr.idaho.gov - /Browse/WaterInfo/ESPAM/model\_files/Version\_2.0\_Development/Current\_Data/ - Mozilla Firefox

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Friday, November 19, 2010 8:22 AM	<dir> <a href="#">Canal Seepage Calculations Round 2</a>
Friday, May 13, 2011 6:54 AM	<dir> <a href="#">CanalSeepage</a>
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Thursday, March 10, 2011 3:31 PM	<dir> <a href="#">Crop Mix</a>
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Wednesday, April 06, 2011 5:10 PM	<dir> <a href="#">E110406A</a>
Friday, November 10, 2010 8:25 AM	<dir> <a href="#">ESPAM2 Model Boundary 20101011</a>

# \*.DIV

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<dir> [Canal Seepage Calculations Round 2](#)

<dir> [CanalSeepage](#)

414498 [cni by cell 20110219.dbf](#)

<dir> [Crop Mix](#)

<dir> [Diversions](#) ←

<dir> [E110406A](#)

<dir> [ESPAM2 Model Boundary 20101011](#)

Note to Self:

It looks like most recent data aren't posted?

# \*.EFF

- Hand-made file containing On-Farm parameters

www.idwr.idaho.gov - /Browse/WaterInfo/ESPAM/model\_files/Version\_2.0\_Development/Current\_Data/E110406A/

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http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model\_files/Version\_2.0\_Development/Current\_Data/E110406A/

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Thursday, October 28, 2010 11:47 AM	239423	<a href="#">E110406A.cel</a>
Tuesday, February 22, 2011 1:55 PM	114892	<a href="#">E110406A.cnl</a>
Friday, September 10, 2010 9:51 AM	125974	<a href="#">E110406A.div</a>
Tuesday, March 01, 2011 11:39 AM	5582	<a href="#">E110406A.eff</a>
Wednesday, April 06, 2011 11:52 AM	127393	<a href="#">E110406A.ent</a>
Wednesday, November 04, 2009 3:26 PM	43860377	<a href="#">E110406A.eti</a>
Thursday, October 14, 2010 1:52 PM	2446505	<a href="#">E110406A.fpt</a>
Thursday, October 14, 2010 4:23 PM	1325444	<a href="#">E110406A.iar</a>
Wednesday, April 06, 2011 12:03 PM	5298	<a href="#">E110406A.mdl</a>
Monday, June 07, 2010 4:02 PM	48143683	<a href="#">E110406A.nir</a>
Wednesday, February 23, 2011 9:06 AM	27632	<a href="#">E110406A.off</a>
Thursday, May 27, 2010 2:38 PM	85587	<a href="#">E110406A.vch</a>

# \*.ENT

- Comma-delimited table of sprinkler fractions
- Table of ET adjustment factors

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Friday, May 13, 2011 6:54 AM	<dir> <a href="#">CanalSeepage</a>
Thursday, May 12, 2011 4:24 PM	414498 <a href="#">cnl by cell 20110219.dbf</a>
Thursday, March 10, 2011 3:31 PM	<dir> <a href="#">Crop Mix</a>
Monday, April 11, 2011 1:27 PM	<dir> <a href="#">Diversions</a>
Wednesday, April 06, 2011 5:10 PM	<dir> <a href="#">E110406A</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">ESPAM2 Model Boundary 20101011</a>
Thursday, July 16, 2009 10:17 AM	1200160 <a href="#">ESPAM2 Modl Grid 07 15 09b.zip</a>
Monday, September 14, 2009 4:35 PM	87066 <a href="#">ESPAM2 Offsite 09-14-09.zip</a>
Wednesday, August 26, 2009 2:00 PM	4928663 <a href="#">ESPAM2 Soils 08-26-09.zip</a>
Thursday, January 29, 2009 9:38 AM	82432 <a href="#">ESPAM2 StressPeriod Definition 20090129.xls</a>
Friday, April 15, 2011 4:46 PM	<dir> <a href="#">ET Adjustment Factors</a>
Tuesday, May 10, 2011 9:58 AM	<dir> <a href="#">ET 20110505</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">GIS Water Source Data</a>

# \*.ENT

- Comma-delimited table of sprinkler fractions
- Table of ET adjustment factors

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**Note to self:**

Did Stacey's latest update get posted?

WaterInfo/ESPAM/model\_1

			<a href="#">al Seepage Calculations Round 2</a>
			<a href="#">alSeepage</a>
			<a href="#">by cell 20110219.dbf</a>
			<a href="#">p Mix</a>
			<a href="#">ersions</a>
			<a href="#">0406A</a>
			<a href="#">AM2 Model Boundary 20101011</a>
			<a href="#">AM2 Modl Grid 07 15 09b.zip</a>
			<a href="#">AM2 Offsite 09-14-09.zip</a>
Wednesday, August 26, 2009	2:00 PM	4928663	<a href="#">ESPAM2 Soils 08-26-09.zip</a>
Thursday, January 29, 2009	9:38 AM	82432	<a href="#">ESPAM2 StressPeriod Definition 20090129.xls</a>
Friday, April 15, 2011	4:46 PM	<dir>	<a href="#">ET Adjustment Factors</a>
Tuesday, May 10, 2011	9:58 AM	<dir>	<a href="#">ET 20110505</a>
Friday, November 19, 2010	8:25 AM	<dir>	<a href="#">GIS Water Source Data</a>

# \*.ETI

- Comma-delimited table of evapotranspiration depths
- Relies on crop mix & traditional ET

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Friday, November 19, 2010 8:22 AM	<dir> <a href="#">Canal Seepage Calculations Round 2</a>
Friday, May 13, 2011 6:54 AM	<dir> <a href="#">CanalSeepage</a>
Thursday, May 12, 2011 4:24 PM	414498 <a href="#">cml by cell 20110219.dbf</a>
Thursday, March 10, 2011 3:31 PM	<dir> <a href="#">Crop Mix</a>
Monday, April 11, 2011 1:27 PM	<dir> <a href="#">Diversions</a>
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Thursday, July 16, 2009 10:17 AM	1200160 <a href="#">ESPAM2 Modl Grid 07 15 09b.zip</a>
Monday, September 14, 2009 4:35 PM	87066 <a href="#">ESPAM2 Offsite 09-14-09.zip</a>
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Thursday, January 29, 2009 9:38 AM	82432 <a href="#">ESPAM2 StressPeriod Definition 20090129.xls</a>
Friday, April 15, 2011 4:46 PM	<dir> <a href="#">ET Adjustment Factors</a>
Tuesday, May 10, 2011 9:58 AM	<dir> <a href="#">ET 20110505</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">GIS Water Source Data</a>

## \*.FPT

- Shapefile of fixed points (wetlands, urban areas, exchange wells)
- Comma-delimited table of water flux
- May be affected by Mud Lake refinements

Note to Self:

I didn't see data posted?

# \*.IAR

- Irrigated lands
- New ESPAM2 Tools use rasters
- 1986 irrigated lands are improved

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Friday, November 19, 2010 8:22 AM	<dir> <a href="#">Canal Seepage Calculations Round 2</a>
Friday, May 13, 2011 6:54 AM	<dir> <a href="#">CanalSeepage</a>
Thursday, May 12, 2011 4:24 PM	414498 <a href="#">cni by cell 20110219.dbf</a>
Thursday, March 10, 2011 3:31 PM	<dir> <a href="#">Crop Mix</a>
Monday, April 11, 2011 1:27 PM	<dir> <a href="#">Diversions</a>
Wednesday, April 06, 2011 5:10 PM	<dir> <a href="#">E110406A</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">ESPAM2 Model Boundary 20101011</a>
Thursday, July 16, 2009 10:17 AM	1200160 <a href="#">ESPAM2 Modl Grid 07 15 09b.zip</a>
Monday, September 14, 2009 4:35 PM	87066 <a href="#">ESPAM2 Offsite 09-14-09.zip</a>
Wednesday, August 26, 2009 2:00 PM	4928663 <a href="#">ESPAM2 Soils 08-26-09.zip</a>
Thursday, January 29, 2009 9:38 AM	82432 <a href="#">ESPAM2 StressPeriod Definition 20090129.xls</a>
Friday, April 15, 2011 4:46 PM	<dir> <a href="#">ET Adjustment Factors</a>
Tuesday, May 10, 2011 9:58 AM	<dir> <a href="#">ET 20110505</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">GIS Water Source Data</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">Ground water polygons</a>
Tuesday, May 10, 2011 10:03 AM	<dir> <a href="#">Irrigated Lands 20110511</a>

# \*.MDL

- Hand-made file containing simulation parameters

The screenshot shows a web browser window with the following details:

- Address bar: [http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model\\_files/Version\\_2.0\\_Development/Current\\_Data/E110406A/](http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model_files/Version_2.0_Development/Current_Data/E110406A/)
- Page title: **www.idwr.idaho.gov - /Browse/WaterInfo/**
- Content: A directory listing of files with columns for date, time, size, and filename.

Date	Time	Size	Filename
Thursday, October 28, 2010	11:47 AM	239423	<a href="#">E110406A.cel</a>
Tuesday, February 22, 2011	1:55 PM	114892	<a href="#">E110406A.cnl</a>
Friday, September 10, 2010	9:51 AM	125974	<a href="#">E110406A.div</a>
Tuesday, March 01, 2011	11:39 AM	5582	<a href="#">E110406A.eff</a>
Wednesday, April 06, 2011	11:52 AM	127393	<a href="#">E110406A.ent</a>
Wednesday, November 04, 2009	3:26 PM	43860377	<a href="#">E110406A.eti</a>
Thursday, October 14, 2010	1:52 PM	2446505	<a href="#">E110406A.fpt</a>
Thursday, October 14, 2010	4:23 PM	1325444	<a href="#">E110406A.iar</a>
Wednesday, April 06, 2011	12:03 PM	5298	<a href="#">E110406A.mdl</a>
Monday, June 07, 2010	4:02 PM	48143683	<a href="#">E110406A.nir</a>
Wednesday, February 23, 2011	9:06 AM	27632	<a href="#">E110406A.off</a>
Thursday, May 27, 2010	2:38 PM	85587	<a href="#">E110406A.vch</a>

# \*.NIR

- Recharge from precipitation on non-irrigated lands
- comma-delimited text file
- Soon to be refined based on new precip.

Firefo

del\_f

File  
I  
←  
M  
Book  
Sea

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Friday, November 19, 2010 8:22 AM	<dir> <a href="#">Canal Seepage Calculations Round 2</a>
Friday, May 13, 2011 6:54 AM	<dir> <a href="#">CanalSeepage</a>
Thursday, May 12, 2011 4:24 PM	414498 <a href="#">cnl by cell 20110219.dbf</a>
Thursday, March 10, 2011 3:31 PM	<dir> <a href="#">Crop Mix</a>
Monday, April 11, 2011 1:27 PM	<dir> <a href="#">Diversions</a>
Wednesday, April 06, 2011 5:10 PM	<dir> <a href="#">E110406A</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">ESPAM2 Model Boundary 20101011</a>
Thursday, July 16, 2009 10:17 AM	1200160 <a href="#">ESPAM2 Modl Grid 07 15 09b.zip</a>
Monday, September 14, 2009 4:35 PM	87066 <a href="#">ESPAM2 Offsite 09-14-09.zip</a>
Wednesday, August 26, 2009 2:00 PM	4928663 <a href="#">ESPAM2 Soils 08-26-09.zip</a>
Thursday, January 29, 2009 9:38 AM	82432 <a href="#">ESPAM2 StressPeriod Definition 20090129.xls</a>
Friday, April 15, 2011 4:46 PM	<dir> <a href="#">ET Adjustment Factors</a>
Tuesday, May 10, 2011 9:58 AM	<dir> <a href="#">ET 20110505</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">GIS Water Source Data</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">Ground water polygons</a>
Tuesday, May 10, 2011 10:03 AM	<dir> <a href="#">Irrigated Lands 20110511</a>
Wednesday, May 04, 2011 11:23 AM	<dir> <a href="#">MultiDrain3MaxPerCell</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">Non-irrigated Recharge</a>
Friday, November 19, 2010 8:25 AM	<dir> <a href="#">OxforWaterBudget</a>

## \*.OFF

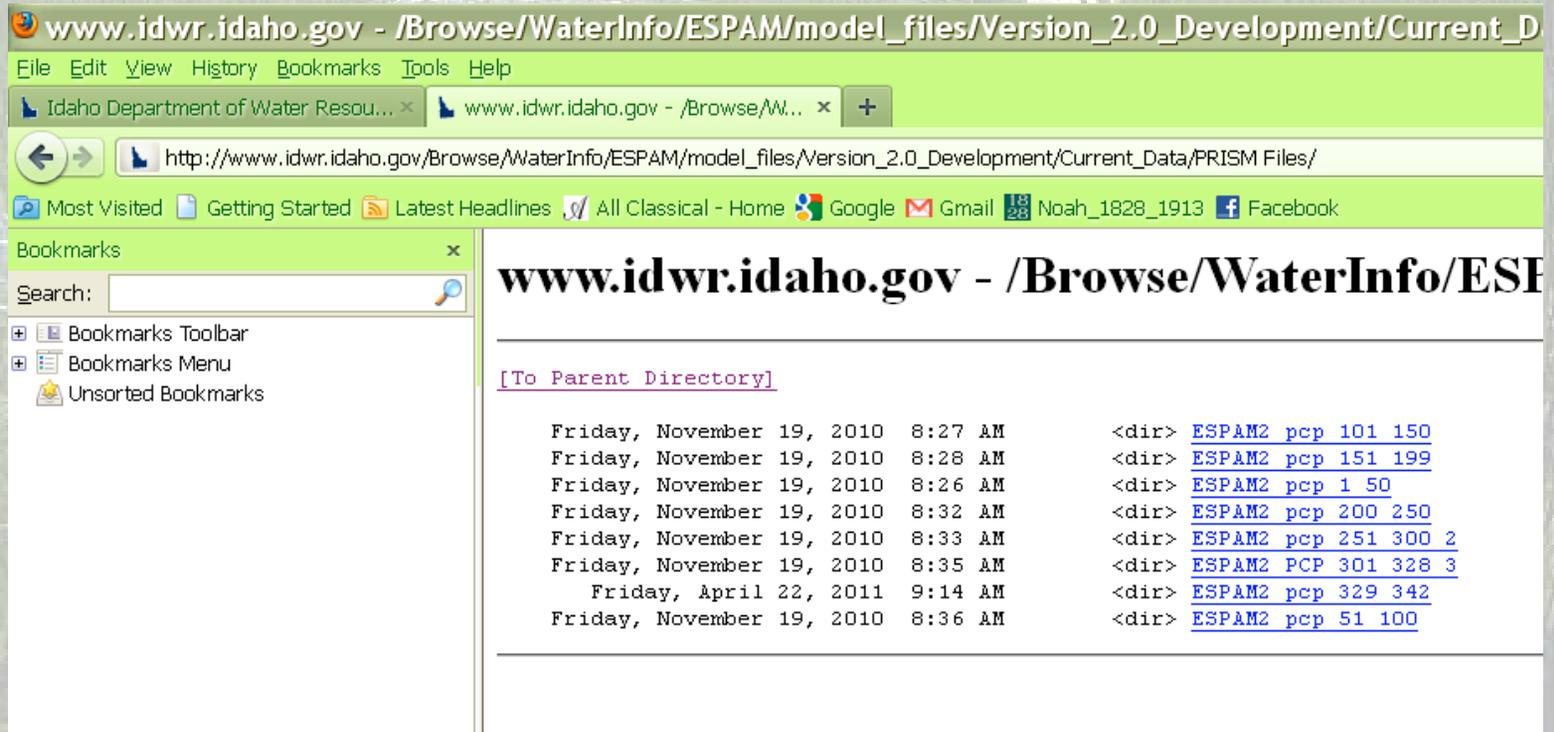
- Offsite pumping (groundwater pumping injected into canals)
- shape file of well locations
- comma-delimited text file

Note to Self:

I didn't see data posted?

# \*.PRE

- Precipitation depths
- comma-delimited text file



The screenshot shows a web browser window with the following details:

- Address bar: [http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model\\_files/Version\\_2.0\\_Development/Current\\_Data/PRISM\\_Files/](http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model_files/Version_2.0_Development/Current_Data/PRISM_Files/)
- Page title: **www.idwr.idaho.gov - /Browse/WaterInfo/ESPAM**
- Content: A directory listing with columns for date, time, and file names.

Date	Time	File Name
Friday, November 19, 2010	8:27 AM	<dir> <a href="#">ESPAM2 pcp 101 150</a>
Friday, November 19, 2010	8:28 AM	<dir> <a href="#">ESPAM2 pcp 151 199</a>
Friday, November 19, 2010	8:26 AM	<dir> <a href="#">ESPAM2 pcp 1 50</a>
Friday, November 19, 2010	8:32 AM	<dir> <a href="#">ESPAM2 pcp 200 250</a>
Friday, November 19, 2010	8:33 AM	<dir> <a href="#">ESPAM2 pcp 251 300 2</a>
Friday, November 19, 2010	8:35 AM	<dir> <a href="#">ESPAM2 PCP 301 328 3</a>
Friday, April 22, 2011	9:14 AM	<dir> <a href="#">ESPAM2 pcp 329 342</a>
Friday, November 19, 2010	8:36 AM	<dir> <a href="#">ESPAM2 pcp 51 100</a>

# \*.PRE

- Precipitation depths
- comma-delimited text file

www.idwr.idaho.gov - /Browse/WaterInfo/ESPAM/model\_files/Version\_2.0\_Development/Current\_D

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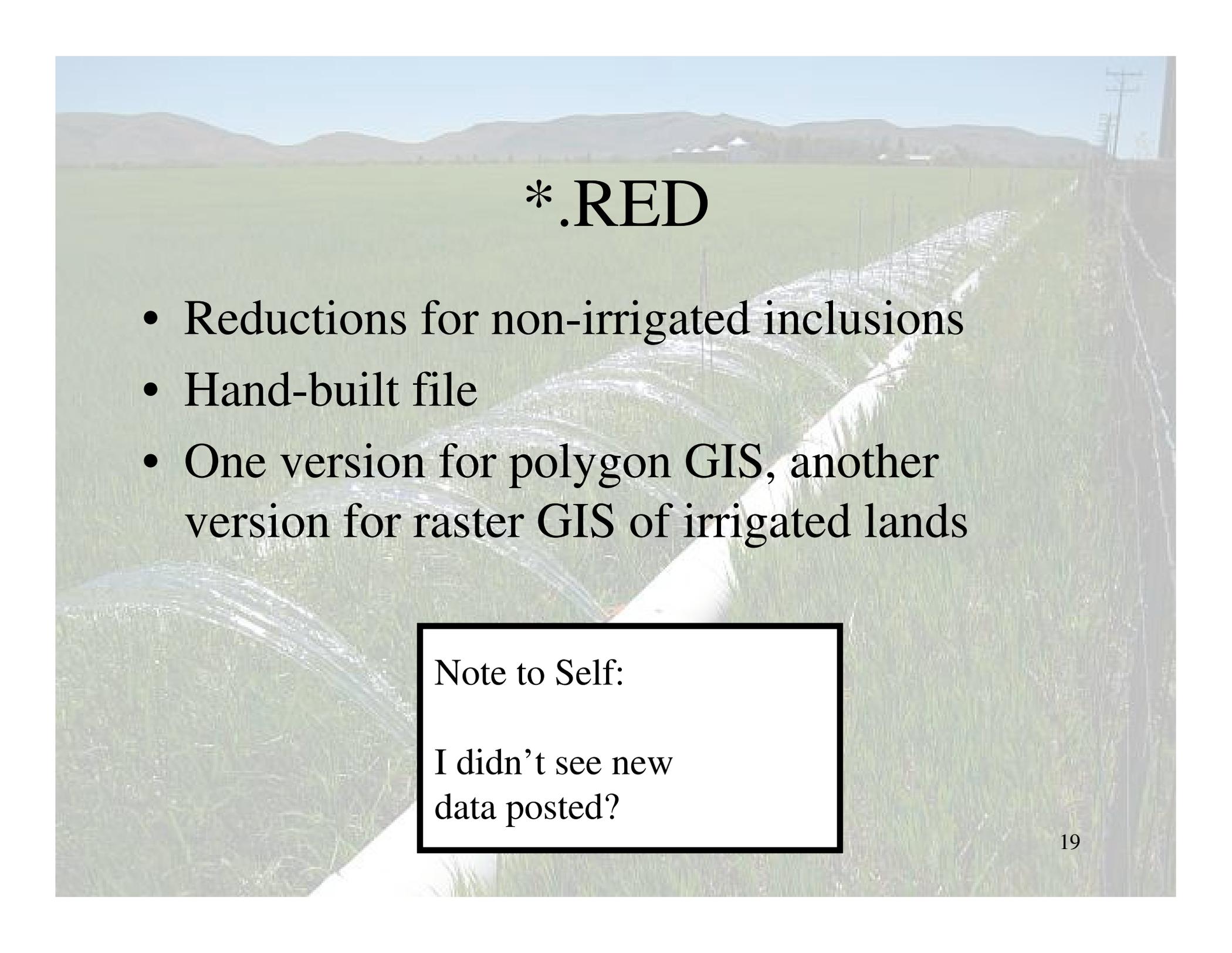
http://www.idwr.idaho.gov/Browse/WaterInfo/ESPAM/model\_files/Version\_2.0\_Development/Current\_Data/PRISM Files/

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Note:  
Expect revised data soon (ESPAM2 tools)

2010	8:27 AM	<dir>	<a href="#">ESPAM2 pcp 101 150</a>
2010	8:28 AM	<dir>	<a href="#">ESPAM2 pcp 151 199</a>
2010	8:26 AM	<dir>	<a href="#">ESPAM2 pcp 1 50</a>
2010	8:32 AM	<dir>	<a href="#">ESPAM2 pcp 200 250</a>
2010	8:33 AM	<dir>	<a href="#">ESPAM2 pcp 251 300 2</a>
2010	8:35 AM	<dir>	<a href="#">ESPAM2 PCP 301 328 3</a>
Friday, April 22, 2011	9:14 AM	<dir>	<a href="#">ESPAM2 pcp 329 342</a>
Friday, November 19, 2010	8:36 AM	<dir>	<a href="#">ESPAM2 pcp 51 100</a>



## \*.RED

- Reductions for non-irrigated inclusions
- Hand-built file
- One version for polygon GIS, another version for raster GIS of irrigated lands

Note to Self:

I didn't see new  
data posted?

# \*.SOL

- Polygon shapefile of soil-type zones for PEST adjustment of non-irrigated recharge

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# \*.TRB

- Tributary basin underflow shapefile
- comma-delimited data file

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