Blaise 5 Data In/Data Out

…and other awesome things.

Andrew D. Piskorowski - Data Manager
Survey Research Center
BLAISE 5 SURVEY PRELOAD

• Was an obstacle......

• Not anymore...

• Two solutions!
BLAISE 5 SURVEY PRELOAD

Form1

BDBX: C:\BI5Proj\MyProject\andrew\test\MyProject.bdix
Preload: C:\BI5Proj\MyProject\andrew\test\MyProjectpreloadtest.txt

Overwrite completes? Checked = Yes

Complete: IWComplete
Value: 1

Process
Count of rows processed: ~

Exit

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BLAISE 5 SURVEY PRELOAD

- DATAMODEL – Preload Block

```
T Set
T Integer
T Array
T Date

B Blocks
B BPreload

A AuxFields

F Fields
F SampleID: TYPE.SampleID (String)
F Preload: BPreload (BlockName)
```
BLAISE 5 SURVEY PRELOAD

SETUP MySetup

SETTINGS
  DATEFORMAT = 'MMDDYY'
  DATESEPARATOR = '/'

USES
  ImportMeta 'MyProjectPreload'

MyMeta 'MYPROJECTProd'

INPUTFILE
  MyInputFile: ImportMeta ('MyProjectpreloadtestwithoutheaders.txt', ASCII)
  SETTINGS
    SEPARATOR = ','

UPDATEFILE
  MyOutputFile: MyMeta ('MYPROJECTProd', BLAISE)

MANIPULATE
  MyOutputFile.WRITE
END
BLAISE 5 SURVEY PRELOAD

• Preload App
  – Intuitive and quick
  – Add/Update on the fly – at the time
  – Rebuild with new Blaise builds

• Manipula
  – Simple code
  – Scriptable
  – Programmer needed (maybe)
  – Has to be recompiled
BLAISE 5 SURVEY SESSIONS

• Where are they hiding...

• Need them to migrate

• Not easy to access
BLAISE 5 SURVEY SESSIONS
BLAISE 5 SURVEY SESSIONS

• Session Copy App
  – Tool easy to use
  – Process is cumbersome
  – Requires separate environment
  – Many moving parts
  – It worked!

  – Blaise 5 now saves session data....YAY!
BLAISE 5 SURVEY DATA

• MULTI-MODE

• Native export (delimited/XML)
  – Easy...ish

• Manipula
  – Scriptable
  – Customizable

• MQDS
  – Intuitive
  – GUI
  – Customizable
SETUP MYPROJECT
SETTINGS
  DESCRIPTION = "My Manipula Setup"
  { CHECKRULES = YES }
USES
  MetaID 'MYPROJECT.bmix'

INPUTFILE
  InputID: MetaID ('MYPROJECT.bdbx', BLAISE)

OUTPUTFILE
  OutputID: MetaID ('MYPROJECT_Completes.txt', ASCII)
  SETTINGS  HEADERLINE = YES
              SEPARATOR = '^

MANIPULATE
IF InputID.IWComplete = 1 THEN
  OutputID.WRITE
ENDIF
END
SETUP ExportSubsetData

SETTINGS
  DATEFORMAT = 'MMddyyyy'
  AUTOREAD = No

USES
  MiniModel1 'MyProject.bmix'

DATAMODEL Subsetfields
  ATTRIBUTES = DONTKNOW, REFUSAL
  Type
    tComplete = (Continue)

FIELDS
  SampleId : STRING[8]
  ThankYou : tComplete
  IWComplete : tComplete
  Complete : (Done,NotDone)
  Lang : (WEB,_CATI,Mobile)

ENDMODEL
BLAISE 5 SURVEY DATA

UPDATEFILE IwData : MiniModel1 ('MyProject.bdbx', BLAISE)
SETTINGS
  AUTOCOPY = No

OUTPUTFILE subset : Subsetfields('SIDOUT.txt', ASCII)
SETTINGS
  SEPARATOR = '^'
  HEADERLINE = YES

MANIPULATE
  IwData.READNEXT
  WHILE iwData.RESULTOK DO
    IwData.COPY
    Subset.WRITE
  ENDWHILE
  IwData.READNEXT
ENDWHILE
IwData.Close
BLAISE 5 SURVEY DATA

Select a function in the View Menu above

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BLAISE 5 SURVEY DATA
BLAISE 5 SURVEY DATA

- File structure

- Data file example

- Meta file example

<table>
<thead>
<tr>
<th>Name</th>
<th>Structure</th>
<th>Categories</th>
<th>Min</th>
<th>Max</th>
<th>MaxLength</th>
</tr>
</thead>
<tbody>
<tr>
<td>xArmyMilitary</td>
<td>String</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A_AA_ETS</td>
<td>Enumeration</td>
<td>1. Yes, 5, No</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A_AA_Checkpoint_01</td>
<td>Integer</td>
<td>1, 2, 3, 4, 5, 6, 7, 8, 9, 10</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A_AA_ThinkReEnlist</td>
<td>Enumeration</td>
<td>1. _1, 2, 3, 4, 5, _6, _7, _8, _9, _10</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
***** Section_a.AA_MilStatus_b *****
Current Military status - b
*****************************************************************************
Are you currently on active duty in the Regular Army, another branch of t

1. Regular Army
2. Other branch of the military
3. Army Reserve
4. Army National Guard
5. Other reserve component

Answer not required/Don't Know allowed/Refusal allowed

***** Section_a.AA_MilStatus_c *****
Current Military status - c
*****************************************************************************
Are you currently in the reserves, separated from the Army, retired from

1. In reserves (not active duty)
2. Separated from the Army
3. Retired from the Army
# BLAISE 5 SURVEY DATA

<table>
<thead>
<tr>
<th>Instrument</th>
<th>Phase</th>
<th>CATI</th>
<th>WEB</th>
<th>Section Label</th>
<th>Designation</th>
<th>In DataModel</th>
<th>Variable Name</th>
<th>Variable Label</th>
<th>Blaze Tag</th>
<th>Section Letter</th>
<th>Question Number</th>
<th>Codec Frame</th>
<th>Date Type</th>
<th>Date Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>MyProject</td>
<td>Pilot</td>
<td>0</td>
<td>1</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus</td>
<td>Current Military status</td>
<td>A01_Q</td>
<td>A</td>
<td>A1</td>
<td>MilStatus</td>
<td>Integer</td>
<td>1-14</td>
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<tr>
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<td>Pilot</td>
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<td>1</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_Checkpoint_01</td>
<td>Your Army career and beyond</td>
<td>A02_X</td>
<td>A</td>
<td>CKPT.A1.1</td>
<td>CKPT.A11</td>
<td>Integer</td>
<td>1-2</td>
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<tr>
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<td>0</td>
<td>1</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus2</td>
<td>Current Military status 2</td>
<td>A03_Q</td>
<td>A</td>
<td>A1.1</td>
<td>MilStatus</td>
<td>Integer</td>
<td>1-14</td>
</tr>
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<td>1</td>
<td>0</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus_a</td>
<td>Current Military status - a</td>
<td>A06_Q</td>
<td>A</td>
<td>A1</td>
<td>Yes_No</td>
<td>Integer</td>
<td>1-5</td>
</tr>
<tr>
<td>MyProject</td>
<td>Pilot</td>
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<td>0</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus_b</td>
<td>Current Military status - b</td>
<td>A07_Q</td>
<td>A</td>
<td>A2</td>
<td>MilStatus2</td>
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</tr>
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<td>MyProject</td>
<td>Pilot</td>
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<td>0</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus_c</td>
<td>Current Military status - c</td>
<td>A08_Q</td>
<td>A</td>
<td>A3</td>
<td>MilStatus3</td>
<td>Integer</td>
<td>1-3</td>
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<tr>
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<td>0</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus_d</td>
<td>Current Military status - d</td>
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<td>A</td>
<td>A3a</td>
<td>MilStatus4</td>
<td>Integer</td>
<td>1-3</td>
</tr>
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<td>Pilot</td>
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<td>0</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus_e</td>
<td>Current Military status - e</td>
<td>A10_Q</td>
<td>A</td>
<td>A3b</td>
<td>MilStatus5</td>
<td>Integer</td>
<td>1-3</td>
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<td>MyProject</td>
<td>Pilot</td>
<td>1</td>
<td>0</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_MilStatus_f</td>
<td>Current Military status - f</td>
<td>A11_Q</td>
<td>A</td>
<td>A3c</td>
<td>MilStatus6</td>
<td>Integer</td>
<td>1-3</td>
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<td>Pilot</td>
<td>1</td>
<td>1</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_OverallFeel</td>
<td>Overall feeling about military</td>
<td>A04_Q</td>
<td>A</td>
<td>A1.2</td>
<td>PosNeg</td>
<td>Integer</td>
<td>1-5</td>
</tr>
<tr>
<td>MyProject</td>
<td>Pilot</td>
<td>1</td>
<td>1</td>
<td>Your Army Car AA</td>
<td></td>
<td>1</td>
<td>AA_Checkpoint_02</td>
<td>Your Army career and beyond checkpoint (A)</td>
<td>CKPT.A1.2</td>
<td>CKPTA12</td>
<td>Integer</td>
<td>1-5</td>
<td></td>
<td></td>
</tr>
<tr>
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<td>Pilot</td>
<td>1</td>
<td>1</td>
<td>Your Army Car A-AA</td>
<td></td>
<td>1</td>
<td>A_AA_CWS</td>
<td>Active duty regular army check</td>
<td>A01_Q</td>
<td>A</td>
<td>A.AA1</td>
<td>Yes_No</td>
<td>Integer</td>
<td>1-5</td>
</tr>
<tr>
<td>MyProject</td>
<td>Pilot</td>
<td>1</td>
<td>1</td>
<td>Your Army Car A-AA</td>
<td></td>
<td>1</td>
<td>A_AA_CWS</td>
<td>Active duty regular army check</td>
<td>A02_X</td>
<td>A</td>
<td>CKPT.A.AA2</td>
<td>CKPT.A.AA2</td>
<td>Integer</td>
<td>1-2</td>
</tr>
<tr>
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<td>Pilot</td>
<td>1</td>
<td>1</td>
<td>Your Army Car A-AA</td>
<td></td>
<td>1</td>
<td>A_AA_CWSMonth</td>
<td>Army ETS - month</td>
<td>A03_Q</td>
<td>A</td>
<td>A.AA2</td>
<td>Month</td>
<td>Integer</td>
<td>1-12</td>
</tr>
<tr>
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<td>Pilot</td>
<td>1</td>
<td>1</td>
<td>Your Army Car A-AA</td>
<td></td>
<td>1</td>
<td>A_AA_CWSYear</td>
<td>Army ETS - year</td>
<td>A04_Q</td>
<td>A</td>
<td>A.AA2</td>
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<td>1</td>
<td>Your Army Car A-AA</td>
<td></td>
<td>1</td>
<td>A_AA_ThinkRetList</td>
<td>Army - WILL be given the option</td>
<td>A05_Q</td>
<td>A</td>
<td>A.AA3</td>
<td>Option</td>
<td>Integer</td>
<td>1-5</td>
</tr>
</tbody>
</table>
BLAISE 5 SURVEY DATA

• MQDS
  – Lots of options
  – GUI

• Manipula
  – Scriptable
  – Customizable
BLAISE 5 SURVEY PARADATA

• Audit trail paradata
  – Lots and lots of information
  – Must be parsed

• Client side paradata
  – Lots of information
  – Not easily accessible
# BLAISE 5 SURVEY PARADATA

<table>
<thead>
<tr>
<th>COLUMN</th>
<th>MEANING</th>
</tr>
</thead>
<tbody>
<tr>
<td>LoginId</td>
<td>Unique primary key from Blaise</td>
</tr>
<tr>
<td>SampleLineID</td>
<td>Unique key within survey management system</td>
</tr>
<tr>
<td>FirstString</td>
<td>First agent string provided per respondent</td>
</tr>
<tr>
<td>FirstPlatform</td>
<td>First platform used respondent</td>
</tr>
<tr>
<td>FirstBrowser</td>
<td>First browser used respondent</td>
</tr>
<tr>
<td>FirstWidth</td>
<td>First width of browser</td>
</tr>
<tr>
<td>FirstHeight</td>
<td>First height of browser</td>
</tr>
<tr>
<td>LastString</td>
<td>Last agent string provided per respondent</td>
</tr>
<tr>
<td>LastPlatform</td>
<td>Last platform used respondent</td>
</tr>
<tr>
<td>LastBrowser</td>
<td>Last browser used respondent</td>
</tr>
<tr>
<td>LastWidth</td>
<td>Last width of browser</td>
</tr>
<tr>
<td>LastHeight</td>
<td>Last height of browser</td>
</tr>
<tr>
<td>CATIDone</td>
<td>Indicates respondent completed instrument on CATI mode</td>
</tr>
<tr>
<td>WebDone</td>
<td>Indicates respondent completed instrument on WEB mode</td>
</tr>
<tr>
<td>SurveyComplete</td>
<td>Overall complete indicator</td>
</tr>
<tr>
<td>AuditCompleteDT_EST</td>
<td>Complete time of instrument in EST from audit trail</td>
</tr>
<tr>
<td>AuditCompleteDT_UTC</td>
<td>Complete time of instrument in UTC from audit trail</td>
</tr>
<tr>
<td>LastField</td>
<td>Last field respondent scene from audit trail</td>
</tr>
<tr>
<td>LastQAnswered</td>
<td>Last field respondent answered from audit trail</td>
</tr>
<tr>
<td>CompletionMode</td>
<td>Overall variable to indicate which mode completed on</td>
</tr>
<tr>
<td>AuditvSMSMS_Check</td>
<td>Compares survey status of audit trail (complete or not) with status of SMS</td>
</tr>
<tr>
<td>AuditEnd_Check</td>
<td>Flag to indicate if EndQuestionnaire is last event for a complete case</td>
</tr>
<tr>
<td>TotalTimeSurvey</td>
<td>Total time spent in survey</td>
</tr>
<tr>
<td>LoginAttempts</td>
<td>Number of times they attempted to login</td>
</tr>
<tr>
<td>LoginSuccess</td>
<td>Number of times they successfully logged in</td>
</tr>
<tr>
<td>LoginFails</td>
<td>Number of times they failed to login</td>
</tr>
<tr>
<td>AuditStatus</td>
<td>Overall indicator of survey status (Not started, started, complete)</td>
</tr>
</tbody>
</table>
In general, would you say your health is:

- Excellent
- Very Good
- Good
- Fair
- Poor

The following questions are about activities you might do during a typical day. Does your health now limit you in these activities? If so, how much?

**Vigorous activities, such as running, lifting heavy objects, or participating in strenuous sports**

- Yes, limited a lot
- Yes, limited a little
- No, not limited at all

**Moderate activities, such as moving a table, pushing a vacuum cleaner, bowling, or playing golf**

- Yes, limited a lot
- Yes, limited a little
BLAISE 5 SURVEY PARADATA

Admin server: troBlaisetst02
User: tstUser01
Password: *
Port number: 8031
InstrumentID: 9b255695-0a9c-4078-bd88-a3377d593e11
Remote Serverpark: Production
Primary key: L54514

FieldName: ClientSideParadataStore

Watch
Get Value
Get all sessions
<table>
<thead>
<tr>
<th>VARIABLE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Year</td>
</tr>
<tr>
<td>PageQuestions</td>
</tr>
<tr>
<td>CountVisited</td>
</tr>
<tr>
<td>NumQuestions</td>
</tr>
<tr>
<td>Platform</td>
</tr>
<tr>
<td>AvgPageLengthSeconds</td>
</tr>
<tr>
<td>AvgNumActions</td>
</tr>
<tr>
<td>CountTapped</td>
</tr>
<tr>
<td>AvgNumTapsOnPage</td>
</tr>
<tr>
<td>PctTimesOrientationChangedAtAll</td>
</tr>
<tr>
<td>PctTimesOrientationChangedWithinPage</td>
</tr>
<tr>
<td>PercentLandscape</td>
</tr>
<tr>
<td>CountScrolled</td>
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<tr>
<td>AvgNumScrollsOnPage</td>
</tr>
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</tr>
<tr>
<td>CountZoomed</td>
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<tr>
<td>PctZoomed</td>
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<td>PctZoomedIn</td>
</tr>
<tr>
<td>PctZoomedOut</td>
</tr>
<tr>
<td>ScreenWidth</td>
</tr>
<tr>
<td>ScreenHeight</td>
</tr>
<tr>
<td>BrowserWidth</td>
</tr>
<tr>
<td>BrowserHeight</td>
</tr>
</tbody>
</table>
BLAISE 5 SURVEY PARADATA

• Audit trail paradata
  – Detail flow of respondent events
  – Easily accessible in SQL

• Client side paradata
  – Mobile keystrokes
  – Hard to access, but parsable

• So, what do we do with it?
### BLAISE 5 SURVEY PARADATA

- **Timing Report by Mode and Platform**

<table>
<thead>
<tr>
<th>Time in survey (minutes)</th>
<th>Completes</th>
<th>Mean</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completes</td>
<td>3</td>
<td>0.3</td>
<td>0.0</td>
<td>0.8</td>
</tr>
<tr>
<td>CATI</td>
<td>1</td>
<td>56.6</td>
<td>56.6</td>
<td>56.6</td>
</tr>
<tr>
<td>WEB</td>
<td>235</td>
<td>44.6</td>
<td>13.2</td>
<td>140.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Last Platform</th>
<th>Completes</th>
<th>Mean</th>
<th>Min</th>
<th>Max</th>
</tr>
</thead>
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<tr>
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<td>0.0</td>
<td>0.0</td>
<td>0.0</td>
</tr>
<tr>
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<td>1</td>
<td>56.6</td>
<td>56.6</td>
<td>56.6</td>
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<td>PC</td>
<td>157</td>
<td>43.8</td>
<td>0.8</td>
<td>140.4</td>
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<tr>
<td>Smartphone</td>
<td>75</td>
<td>44.5</td>
<td>20.0</td>
<td>83.6</td>
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<tr>
<td>Tablet</td>
<td>4</td>
<td>63.7</td>
<td>44.5</td>
<td>77.9</td>
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</tbody>
</table>
BLAISE 5 SURVEY PARADATA

• Section Timings by Platform
BLAISE 5 SURVEY PARADATA

• Breakoffs by Platform
BLAISE 5 SURVEY PARADATA

• Detailed Timing Report by Mode

Histograms- All replicates

WEB

CATI

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BLAISE 5 SURVEY PARADATA

• Trips by Status (Survey Data)

<table>
<thead>
<tr>
<th></th>
<th>Started Survey</th>
<th>Comps</th>
<th>Safety Trips</th>
<th>Depression only Trips</th>
<th>Safety Trips Resolved</th>
<th>Pct Resolved</th>
<th>Trip Rate</th>
<th>Outstanding Safety Trips</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>69</td>
<td>61</td>
<td>9</td>
<td>8</td>
<td>8</td>
<td>89%</td>
<td>13.0%</td>
<td>1</td>
</tr>
<tr>
<td>No</td>
<td>197</td>
<td>173</td>
<td>15</td>
<td>8</td>
<td>15</td>
<td>100%</td>
<td>7.6%</td>
<td>0</td>
</tr>
<tr>
<td>Total</td>
<td>266</td>
<td>239</td>
<td>24</td>
<td>16</td>
<td>23</td>
<td>96%</td>
<td>9.0%</td>
<td>1</td>
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</tbody>
</table>

Lag Times

<table>
<thead>
<tr>
<th></th>
<th>Safety Trips Resolved</th>
<th>Average lag time (hours)</th>
<th>Minimum lag time (hours)</th>
<th>Maximum lag time (hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>8</td>
<td>33.7</td>
<td>2.2</td>
<td>120.4</td>
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<tr>
<td>No</td>
<td>15</td>
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THANK YOU

- Lisa Wood
- Jennie Williams
- Youhong Liu
- Gina Cheng
- Max Malhotra
- Hueichun Peng
- Heather Schroeder
- Jason Ostegren
- Peter Sparks
- Mick Couper
- Jim Rodgers

- Andrew D. Piskorowski - apiskoro@umich.edu