**GS-862 APRIL\_22 RELEASE TEST PLAN**



March 27, 2015

**UNDER CONSTRUCTION DO NOT USE**

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# Purpose and Scope

This test plan describes the strategy for exercising the functionality **and/or fixes** for the JIRA issues in this release*.* As features are being designed the test scenarios described in this document will be updated to accommodate the modifications to the plans.

The purpose and scope of this test plan is to list and describe the test strategy for the following Jira Issues:

|  |  |  |
| --- | --- | --- |
| **Issue** | **User Story** | **Sprint/Release Schedule** |
| **GS-709** | Display: Current Water Balance Plan (main screen) | Sprint 10 |
| **GS - 713** | TAW (Total Available Water) by Soil Depth | Sprint 10 |

* The focus of this test is from the front end. It is only to examine and access the quality of the general functionality and that the current Fertility functionality has not degraded due to this change.

## Limitations

This test is limited as follows:

To front end testing. There is no back end testing.

Only the features mentioned in the box above is tested, with light testing of the areas of this feature It does not include a full regression test.

## Sprint/Release Schedule

Refer to the grid above for sprint schedule information.

## Assumptions and Risks

* Manual tests will be designed to allow any person to execute the test scripts. They will also be designed with the assumption for easy conversion to automated scripts in the future.
* Test Plan for this effort will be available as an attachment against the **Test plan** JIRA issue in pdf format. Or, in the JIRA issue assigned for it.
* Functionality will be delivered by Engineering on time.
* Required resources will be available i.e. Test environments, Devices i.e. Laptop/iPad etc.
* There are no specification documents. Requirements are given via sprint discussions, email and/or accepted design Wire Frames therefore, test plans are built against these matters.
* Handling Leap year dates: there is no testing in this area; it is assume the code used in JavaScript Date object will know how to determine this situation and present the expect dates. This applies to date control, Date input, Dates in Settings, etc.

# Test Strategy

The following test strategies will be considered:

**Content** – is the message being communicated by the page delivered to the user?

**Functionality** – can users do everything they need to?

**Display** – does the page look as it should do in terms of style and layout?

A check that the content, functionality and display all work as intended. Verification of the different types of interaction will be exercised if applicable, for example: Navigation, Form filling – are the input boxes behaving as expected?

## Test Flow

The test scenarios designed in this document will flow as described below in each Test Case section:

* User Logs on.
* Selects an Operation or a Farm depending upon access.
* Proceeds to examine the Fertility Left Nav Menu
  + Confirm the display and expected functionality of the Strategy Toggle
  + Some regression will be done on the existing functionality as the User toggles between strategies.

# Test Environment

Unless otherwise instructed, testing will be executed against the following environment/ configurations:

**Test Environment**: <https://gmctest.east.pioneer.com/>

## Supported Devices and Browsers

**Device:** Laptop

**O/S:** Win 8.1

**Screen Resolution:** 1366 X 768

**Browsers:**

~~IE 9 (IE10 will also be examined)~~

IE 10 and current IE version

Firefox latest version (currently Version 36x)

Chrome latest version (currently Version 41.0.2272.118 m)

**Device:** IPad

**O/S:** Latest Version TBD at time of test and should be noted in JIRA/by the Tester

**Screen Resolution:** 768 X 1024

**Browser:**

Safari/Latest version

# Test Case: Verify the In-Season Water Balance Functionality

The test scenarios presented in this test case will exercise the JIRA issue GS-709. **See** Purpose and Scope**,** Limitations, Risks and Assumption section above).

|  |  |
| --- | --- |
| Wire frame images goes here | Wire frame images goes here |

**Details shown here may be out dated. It is only an example.**

**Please check JIRA for the most recent information for this issue.**

## Test Case: Verify the Water Balance In-Season Plan page is designed as expected.

Confirm the User is able to navigate to the In-Season Water Balance page; confirm the page is design as expected.

| **Step** | **Perform Action** | **Expected Results** | **P**  **F**  **B** | **Remarks:** Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written.  **PFB** = (P) assed, (F) ailed or (B) ypassed. The step was bypassed. |
| --- | --- | --- | --- | --- |
|  | **Instructions:**   * See the **Test Environment Supported Devices and Brower** section of this test plan for details. * Enter Browser/Device: | Able to follow instructions. | n/a |  |
|  | **Pre-requisites:**  **Clear** the cache of the browser under test before execution.  **To execute the scenarios** in this test case access to an Operation/Farm must contain at least 1 farm setup with the Water Irrigation Feature. | Test pre-requisites are met.  Familiar with the JIRA story. |  |  |
|  | * Open to Jira GS-709   <https://jira.appliedinvention.com/browse/GS-709>  Review the specification stated in this:  [Google Doc Water Balance Requirements](https://docs.google.com/a/dannenfeldt.com/document/d/1QPfHrAmKb_Kp-8M99dHP9vtcNt9UTbxbRU6xJA2cLHg/edit)  Review and have the most recent wireframe nearby for reference.  (***Note to Tester:*** Also Review the Comments for updates to this spec.) | Able to do as instructed. |  |  |
|  | **Test Set up:**  Log in as the User with an Operation as detailed in the Pre-requisites step. | **Able to follow instructions**: The User has at least 1 Farm 1 field setup for Water.   * Successfully logged in * Landed on the expected page. |  |  |
|  | **From** the Water page. Select a field for testing that has **NOT** been setup.  Click or Tap the Setup button. | * Able to do as instructed. * The Setup Step 1 Panel is displayed. * The **In Season Plan** is **NOT** available. |  |  |
|  | **Now, from** the Water page. Select a field for testing that has been setup.  Click or Tap the Plan button. | Able to do as instructed. |  |  |
|  | **Confirm** the **In- Season Plan** is available. | The I**n-Season Plan Page** opens **defaulting to Water Balance** screen. |  |  |
|  | ***Note to Tester:*** Refer to the Wire Frames.  Observe and confirm any differences with JIRA/Owner expectations. | The latest wireframes will be referenced as instructed.  Able to continue testing. | ---- |  |
|  | Confirm the default setting of the In-Season Plan | By default the “*bar chart”* is displayed representing the setup for the water balance. |  |  |
|  | Confirm the Page header (Title Area) is correct. | * There is a (**Back)** Arrow * The **Title** of the page is shown in header and appears as expected. * The **Farm and Field** (Crop zone) under test is available and formatted correctly. * The **Crop zone Icon** is present and is as expected.( represent the “shape” of the actual crop zone.) * There is **Edit Setup**  button on the right side of page. |  |  |
|  | Confirm the Page header |  |  |  |
|  | Confirm to the Right of the Plan View there is an **Icon** representing the Water Balance Bar Chart. | * The **Water Balance Icon** is available and positioned as expected. * The Icon resembles a “Bar Chart” and is legible on the device/browser under test. See the Support and Browser section |  |  |
|  | Verify that the default Icon conveys to the User that it has the focus | * The Bar Chart Icon is highlighted in such a way that conveys to the User it is has the focus because the Water Balance is the default (active) screen. |  |  |
|  | Confirm to the Right of the Plan View there is an Icon representing the **Soil Depth**. | * The **Soil Depth Icon** is available and positioned as expected. * The Icon resembles a “*roots”* and is legible on the device/browser under test. * It does not have the focused (since it is not the active the currently active display).   ***Note to Tester:*** Refer to the Supported Devices and Browsers section |  |  |
|  | Examine and confirm the Water Balance Panel defaults. | * The Panel’s Label “Water Balance” is available and is positioned correctly. * There is a Chart representing the field’s water balance variables. * The X and Y axis is available. |  |  |
|  | **Check requirement in dev there is view mode, edit and preview in the construction phase.**  **Cannot create test scenarios yet.** |  |  |  |
|  | Confirm the **X-axis** on the bar chart is as expected. | The default view of the bar chart X-axis displays :   * 7 days prior to the Current day. * The Current Day. * And, 10 days past the forecast view. * The Calendar Date is shown for the day. * Show Irrigation Events (as a ‘one long pill’ corresponding to  the days) * Events in the past are Read Only <click to Edit, values are RO> * Current or Future events can <click to Edit> |  |  |
|  | Confirm the | * The month abbreviation for the ­rst bar’s day will appear under the * ­rst bar only. If a new month occurs within the 18-day range, the * new month’s abbreviation will appear underneath the bar for the ­rst * of the month. * . The text TODAY will appear beneath the current day. * A maturity marker will appear at the base of a bar when the maturity * stage changes. |  |  |
|  | Confirm the design of the Passcode dialog is as expected. | * There is an entry field. The label is correct. * There is a “Where is at link” * There is a button control labeled “Generate”. * There is a Close button. |  |  |
|  | Click on the dialog’s Close button. | Clicking the Close button close the dialog |  |  |
|  | Click the ID icon.   * Enter data into the Probe Serial ID input box. | The dialog opens. |  |  |
|  | * Confirm clicking anywhere in the grey closes the dialog. | * Clicking anywhere in the grey area closes the dialog. * The input field is blank. |  |  |
|  | Click the ID icon again. | The dialog opens. |  |  |
|  | * Enter 32 alphanumeric characters into the Probe Serial ID input box. * **Record** the these characters for further testing   **Characters entered:** | * The data fits into the entry box as expected. * The data entered is recorded for further testing later. |  |  |
|  | * Click the “Where is it Link” | An Explanation bubble opens.  Its text is as expected. |  |  |
|  | Click on the Explanation Bubble’s Close button. | * Clicking the Close button close the Explanation Bubble. * The Passcode dialog remains opened. * The data entered in the previous step is retained; passcode is not generated. |  |  |
|  | * Click the “Where is it Link” again. | Able to do as instructed. |  |  |
|  | * Confirm clicking anywhere in the grey area closes the Bubble. | Clicking anywhere in the grey area closes the dialog. |  |  |
|  | * Click the “Where is it Link” again. * Click the Generate button. | * The “Generate” button color darkens as the cursor is over it. * The Explanation Bubble closed. * A spinner is displayed in the area of the input box. The spinner do not obscured the text shown. * The passcode is successfully generated. |  |  |
|  | Verify the generated passcode and Label appears and is as expected. | * The passcode is formatted as expected. * The text above the generated passcode is available and is as expected. |  |  |
|  | **Close** the passcode dialog. | Able to do as instructed. |  |  |
|  | Click the ID icon to re-launch the ID dialog. | The entry field is blank the password is not visible. |  |  |
|  | Do not enter any characters.  Click the Generate button. | An appropriate validation message is displayed.  A passcode is not generated. |  |  |
|  | Enter the characters recorded earlier.  Click the Generate button. | When a previously used probe serial ID is entered clicking the Generate button generates a new passcode. |  |  |
|  | Enter 1 character.  Click the Generate button. | * Confirm the expected results: * Did a passcode get generated properly for this scenario? * The Min value can be entered. * The data type used is acceptable? |  |  |
|  | **ad – hoc** **test:**   * Test the surrounding areas of this function: * Add new probes. Add ID add the previously serial numbers * Try adding different data types etc. * Enter more than 32 alphanumeric characters into the Probe Serial ID input box. Confirm the data is it retained? Did the extra character get truncated? | Able to do as instructed. |  |  |
| ***Testing is completed for this section***  **Record** Time it took to execute this test:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (This includes time it took for test setup. It does not include down time i.e. pauses in execution related to taking a break, attend a meeting, etc.) | | | | |

# Test Case: Verify In-Season Water Balance feature.

The test scenarios presented in this test case will exercise the JIRA issue GS-727. **(See** Purpose and Scope**,** Limitations, Risks and Assumption section above).

|  |  |
| --- | --- |
| Wire frame images goes here |  |

**Details shown here may be out dated. It is only an example.**

**Please check JIRA for the most recent information for this issue.**

## Test Case: Verify < scenario > here.

Confirm the < short more detail description goes here>

| **Step** | **Perform Action** | **Expected Results** | **P**  **F**  **B** | **Remarks:** Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written.  **PFB** = (P) assed, (F) ailed or (B) ypassed. The step was bypassed. |
| --- | --- | --- | --- | --- |
|  | **Instructions:**   * See the **Test Environment Supported Devices and Brower** section of this test plan for details. * Enter Browser/Device: | Able to follow instructions. | n/a |  |
|  | **Pre-requisites:**  **Clear** the cache of the browser under test before execution.  **To execute the scenarios** in this test case. The following fields (or field configuration must be in the Operation). | Test pre-requisites are met.  Familiar with the JIRA story. |  |  |
|  | **Test Set up:**  Log in as the User with an Operation as detailed in the Pre-requisites step. | **Able to follow instructions**: The User has at least 1 Farm 1 field setup for Water.   * Successfully logged in |  |  |
|  | * From the Water Page select a field for testing. | Able to follow instructions. |  |  |
|  | * Click the Setup button to open the Setup panels. | The fields Setup panel is opened. |  |  |
|  | * Verify the Hybrid drop down control is available. | The dropdown is available.  It positioned after Planting Density and before the GDUs dropdowns. |  |  |
|  | * Open the GDU values csv attached to Jira GS-727   <https://jira.appliedinvention.com/secure/attachment/11689/GDU_values_NoXs.csv> | Able to do as instructed. |  |  |
|  | * Verify the values listed in the Hybrid Family column is available in the drop down in ascending order | The values listed in the csv appear in the drop down in ascending order. |  |  |
|  | * Verify there is a “Custom” item available as the first entry in the drop down. | The Custom entry is present as expected. |  |  |
|  | * Verify when Custom entry is selected the GDU fields are blank. * The User is alerted to supply values. | The GDU fields will appear with a Red outline a tool tip instructs the user to add the value. |  |  |
|  | Verify that if no value is entered in the either GDU field the User is alerted:   * Without supplying any values. Click Continue. | An error prompt opens if no values were entered in the GDU fields. |  |  |
|  | * Verify the GDUs to Silk and Black Layer fields were not affected by this added field. | The GDUs fields remain editable. |  |  |
|  | * Supply values for the GDUs fields * Click Continue. | Data is accepted. The Error prompt did not open. |  |  |
|  | If you still have any focus left ad – hoc test:   * Verify the edit /close buttons performs as expected. * Verify the Legend check boxes perform as expected when checked and when not checked. * Verify the Edit widget Bar/Circle check boxes perform as expected. * Verify settings with States other than Pioneer such as North/South Dakota, Illinois, and Minnesota. | Able to do as instructed. |  |  |
| ***Testing is completed for this section***  **Record** Time it took to execute this test:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (This includes time it took for test setup. It does not include down time i.e. pauses in execution related to taking a break, attend a meeting, etc.) | | | | |

# Test Case: Verify the Setup page error message validation based on field settings requirements.

The test scenarios presented in this test case will exercise the JIRA issue GS-770 focusing on the field/Data type from GS-648 Field Settings: Setup (Planting, Pivot and Well). **Confirm** using spec from GS-648. **(See** Purpose and Scope**,** Limitations, Risks and Assumption section above).

|  |  |
| --- | --- |
|  |  |

**Details shown here may be out dated. It is only an example.**

**Please check JIRA for the most recent information for this issue.**

## Test Case: Verify < scenario > here.

Confirm the < short more detail description goes here>

| **Step** | **Perform Action** | **Expected Results** | **P**  **F**  **B** | **Remarks:** Use this section to add comments or notes. Or, actual results if feature was not as expected. You may also reference JIRA bug issue if a defect was written.  **PFB** = (P) assed, (F) ailed or (B) ypassed. The step was bypassed. |
| --- | --- | --- | --- | --- |
|  | **Instructions:**   * See the **Test Environment Supported Devices and Brower** section of this test plan for details. * Enter Browser/Device: | Able to follow instructions. | n/a |  |
|  | **Pre-requisites:**  **Clear** the cache of the browser under test before execution.  **To execute the scenarios** in this test case. The following fields (or field configuration must be in the Operation). | Test pre-requisites are met.  Familiar with the JIRA story. |  |  |
|  | **Test Set up:**  Log in as the User with an Operation as detailed in the Pre-requisites step. | **Able to follow instructions**: The User has at least 1 Farm 1 field setup for Water.   * Successfully logged in |  |  |
|  | This test requires referring to the Field Validation specified in this issue. ( Refer to the comments to check updates to these specs)   * Open to Jira GS-648   <https://jira.appliedinvention.com/browse/GS-648> | Able to do as instructed. |  |  |
|  | * From the Water Page select a field for testing. | Able to follow instructions. |  |  |
|  | * Click the Setup button to open the Setup panels. | The fields Setup panel is opened. |  |  |
|  | * Verify **Defect GS-770** has been fixed based on the specification presented for the Setup panel fields in GS 648. * Confirm that not only the validation is correct but the specified Field entries are as expected according to those specification expectations. | Fix verified.  The error validation is accurate.  The Field entries as specified works. Ie min/max, defaults values allow and not allowed datatypes were tested and behaves as is expected. |  |  |
| ***Testing is completed for this section***  **Record** Time it took to execute this test:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  (This includes time it took for test setup. It does not include down time i.e. pauses in execution related to taking a break, attend a meeting, etc.) | | | | |