

CU Boulder – Topaz Elements



OAR Staff User Guide

Last Updated: 2018-10-12

Preface:

This guide provides an overview of how manage animal order receipts and cage cards in the vivarium.

1. ANIMAL ORDERS	1
CREATE RECEIPT	1
DOCUMENT ANIMAL ARRIVALS (I.E. COMPLETE THE RECEIPT)	5
PRINT CAGE CARDS	7
CAGE CARD VARIANCE – METHOD 1 (PREFERRED)	9
CAGE CARD VARIANCE – METHOD 2	12
ANIMAL IMPORTS	15
SUBMIT A COMPLAINT	15
RUN AN ARRIVAL REPORT	19
EDIT CAGE DETAILS	21
2. WEANINGS	23
LAB-MANAGED COLONIES – ORDER CARDS FOR WEANING	23
OAR-MANAGED COLONIES – WEANING FORMS	23
3. TRANSFERS	28
4. SPLITTING CAGES	35
5. SPECIAL USE CARDS	39
REPLACE LOST/DAMAGED CARDS	39
EDIT EMERGENCY CONTACT INFORMATION	41
6. MOBILE ANIMAL CENSUS	43
PERFORM CENSUS USING SCANNER	43
RESET SCANNER DATABASE	47
TURN THE SOUND ON/OFF ON THE SCANNERS	50
7. PROTOCOL FAQs	52

1. Animal Orders

To create a receipt, print cards, and complete the receipt in one continuous transaction, follow this workflow: **Create Receipt > Document Animal Arrival > Complete the Receipt > Create Cages & Print Cards > Submit Complaints** (if necessary)

Create Receipt

Step 1: Hover your cursor over the *Product Selector* in the top left corner of the screen. A menu will appear. Under *Operations*, click on **Animal Orders**.



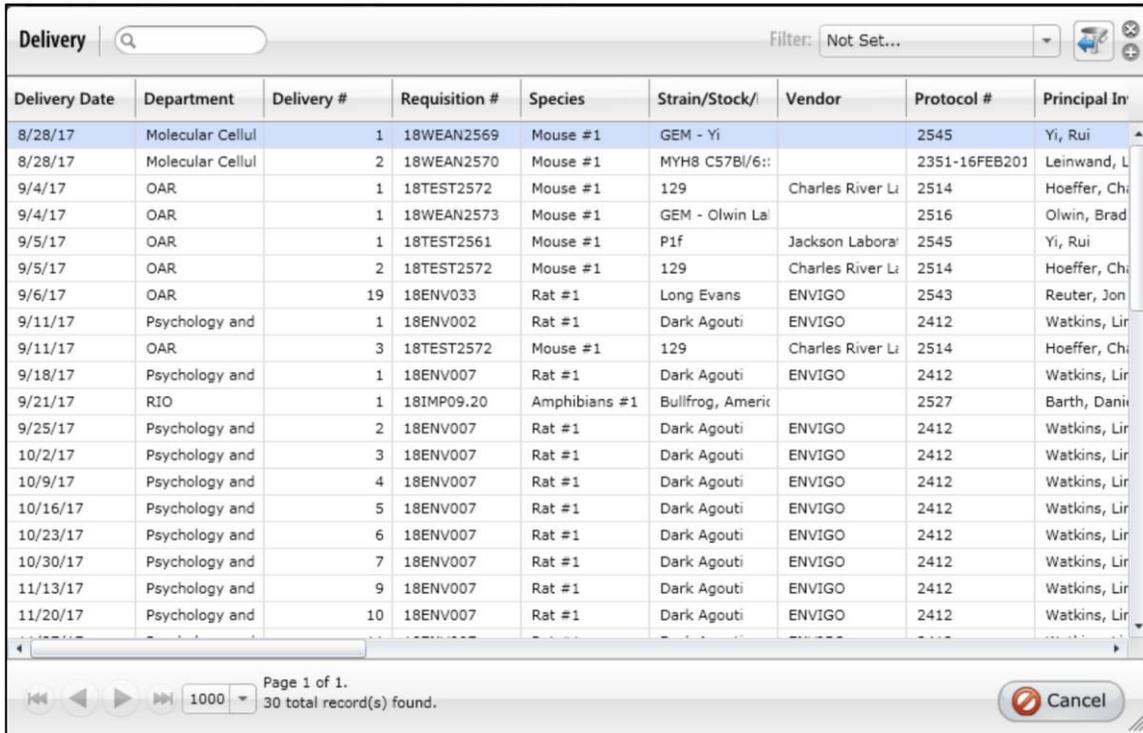
- OR - From the Topaz landing page:



Step 2: Hover your cursor over the green truck for **Receipts**. (A menu will appear.) Select **Create Receipts**.



Step 3: In the *Delivery* window, select the **order being received**.

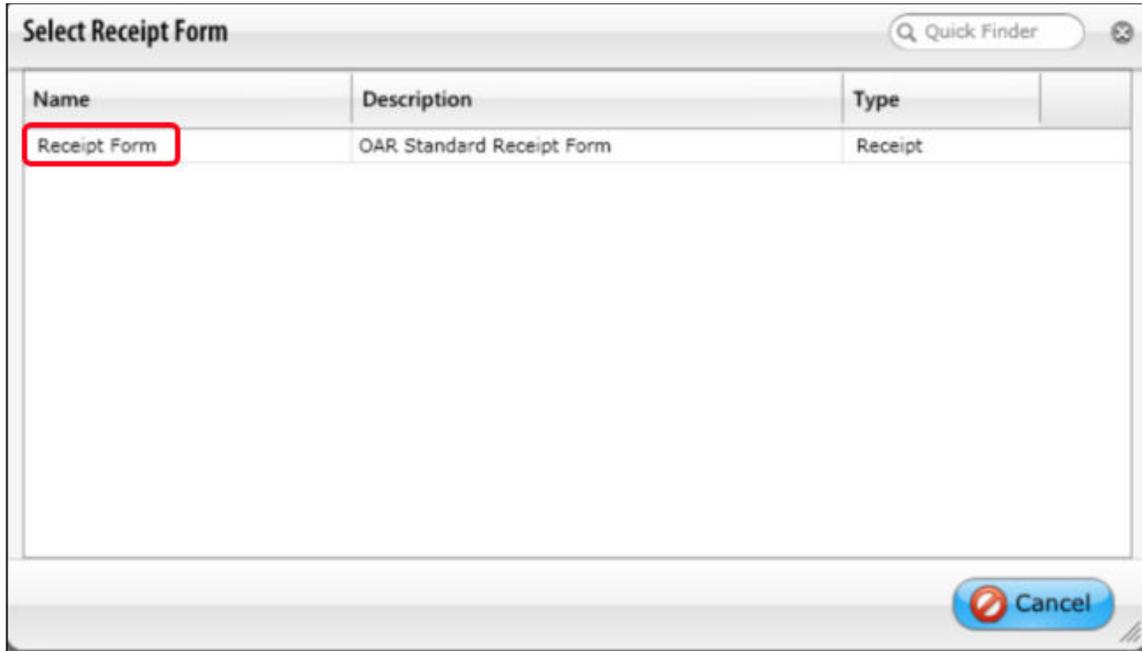


The screenshot shows the 'Delivery' window with a search bar and a filter dropdown set to 'Not Set...'. The table below lists delivery records with columns for Delivery Date, Department, Delivery #, Requisition #, Species, Strain/Stock/, Vendor, Protocol #, and Principal Investigator.

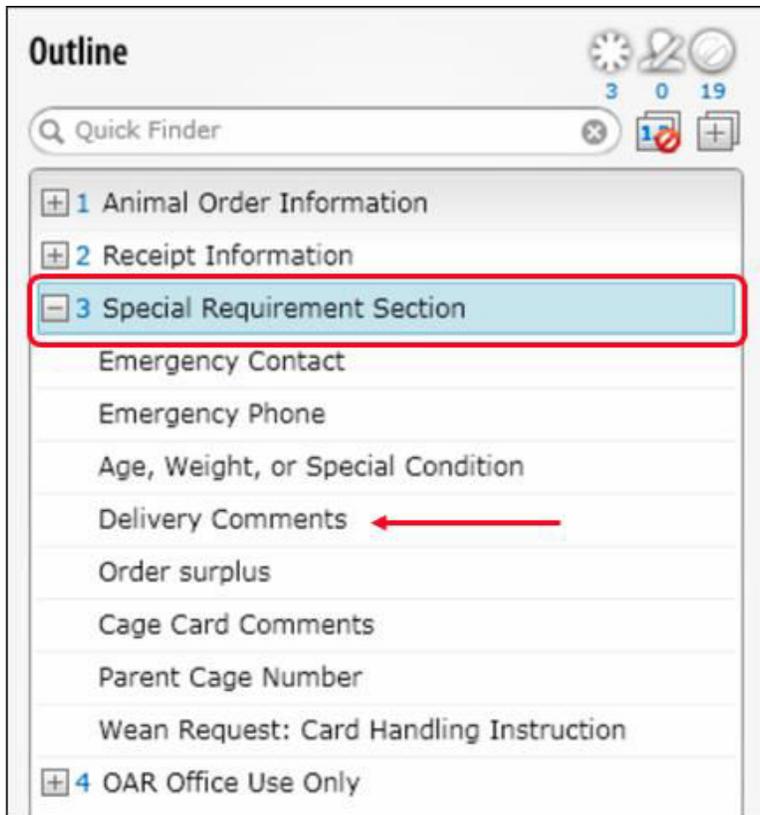
Delivery Date	Department	Delivery #	Requisition #	Species	Strain/Stock/	Vendor	Protocol #	Principal Inv
8/28/17	Molecular Cellul	1	18WEAN2569	Mouse #1	GEM - Yi		2545	Yi, Rui
8/28/17	Molecular Cellul	2	18WEAN2570	Mouse #1	MYH8 C57Bl/6::		2351-16FEB201	Leinwand, L
9/4/17	OAR	1	18TEST2572	Mouse #1	129	Charles River Li	2514	Hoeffler, Ch
9/4/17	OAR	1	18WEAN2573	Mouse #1	GEM - Olwin La		2516	Olwin, Brad
9/5/17	OAR	1	18TEST2561	Mouse #1	P1f	Jackson Labora	2545	Yi, Rui
9/5/17	OAR	2	18TEST2572	Mouse #1	129	Charles River Li	2514	Hoeffler, Ch
9/6/17	OAR	19	18ENV033	Rat #1	Long Evans	ENVIGO	2543	Reuter, Jon
9/11/17	Psychology and	1	18ENV002	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
9/11/17	OAR	3	18TEST2572	Mouse #1	129	Charles River Li	2514	Hoeffler, Ch
9/18/17	Psychology and	1	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
9/21/17	RIO	1	18IMP09.20	Amphibians #1	Bullfrog, Americ		2527	Barth, Dani
9/25/17	Psychology and	2	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
10/2/17	Psychology and	3	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
10/9/17	Psychology and	4	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
10/16/17	Psychology and	5	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
10/23/17	Psychology and	6	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
10/30/17	Psychology and	7	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
11/13/17	Psychology and	9	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir
11/20/17	Psychology and	10	18ENV007	Rat #1	Dark Agouti	ENVIGO	2412	Watkins, Lir

Page 1 of 1.
30 total record(s) found.

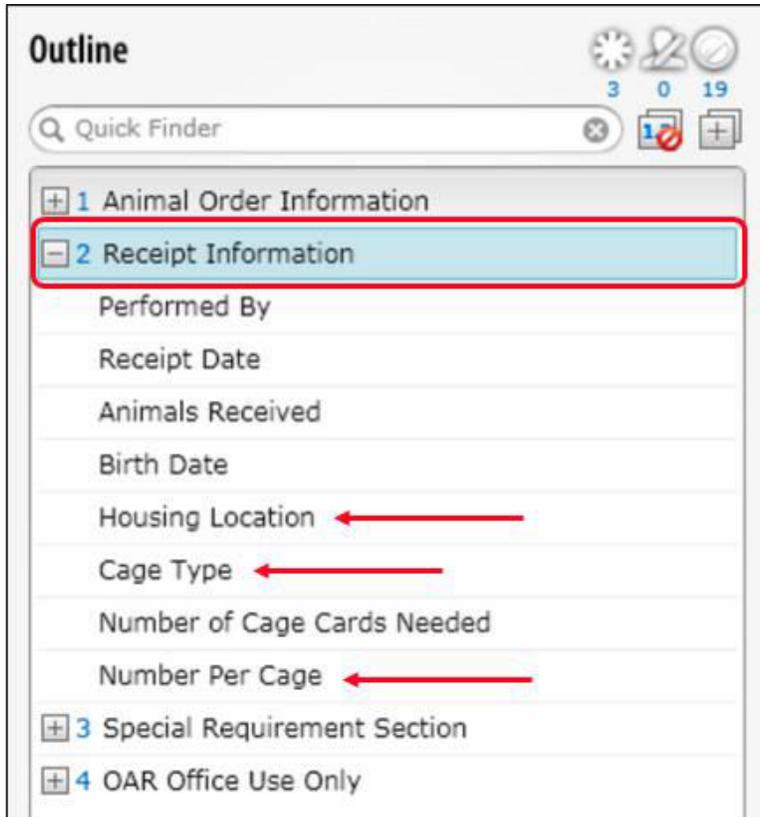
Step 4: In the window, select **Receipt Form**.



Step 5: Open the third section, **Special Requirements Section**. Review the comments in these fields, especially *Delivery Comments*.



Step 6: Open the second section, **Receipt Information**. Verify the *Housing Location*, *Cage Type*, and *Number Per Cage*.

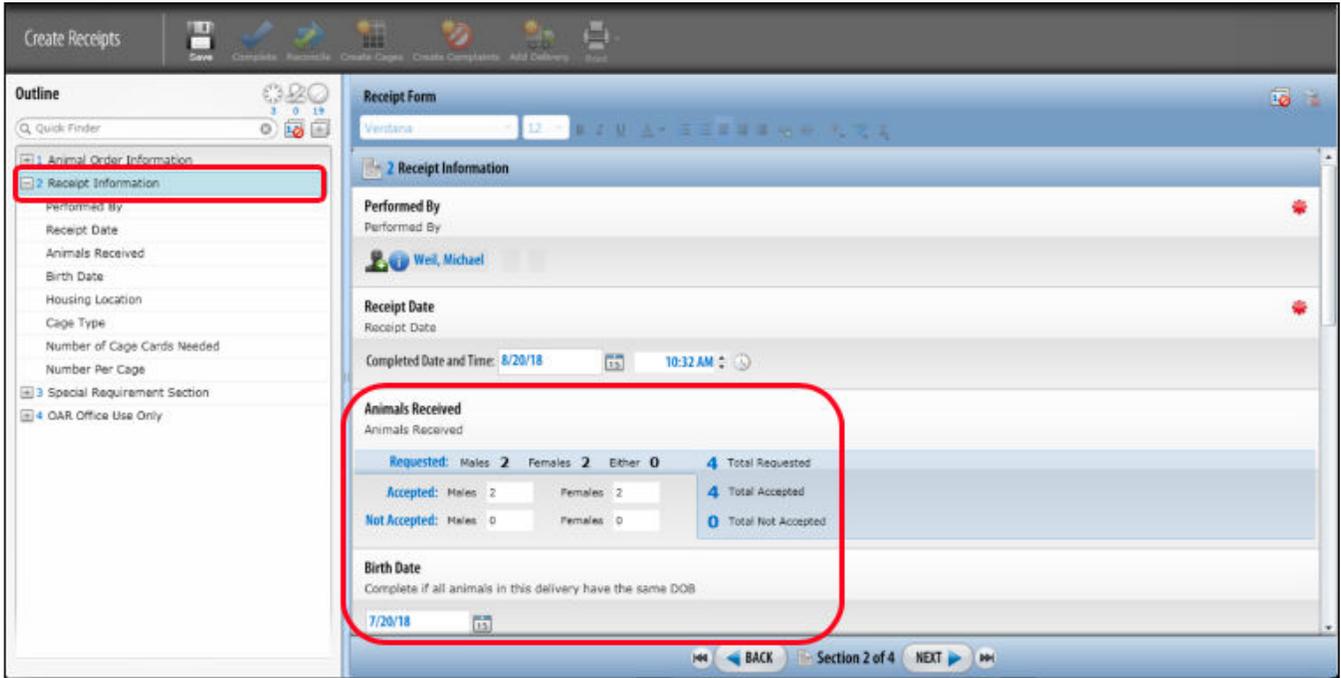


Step 7: Click **Save**.

Document Animal Arrivals (i.e. Complete The Receipt)

Step 1: Open the second section, **Receipt Information**, and verify the number under **Animals Received**.

Step 2: Enter **Birth Date** listed on the packing slip.



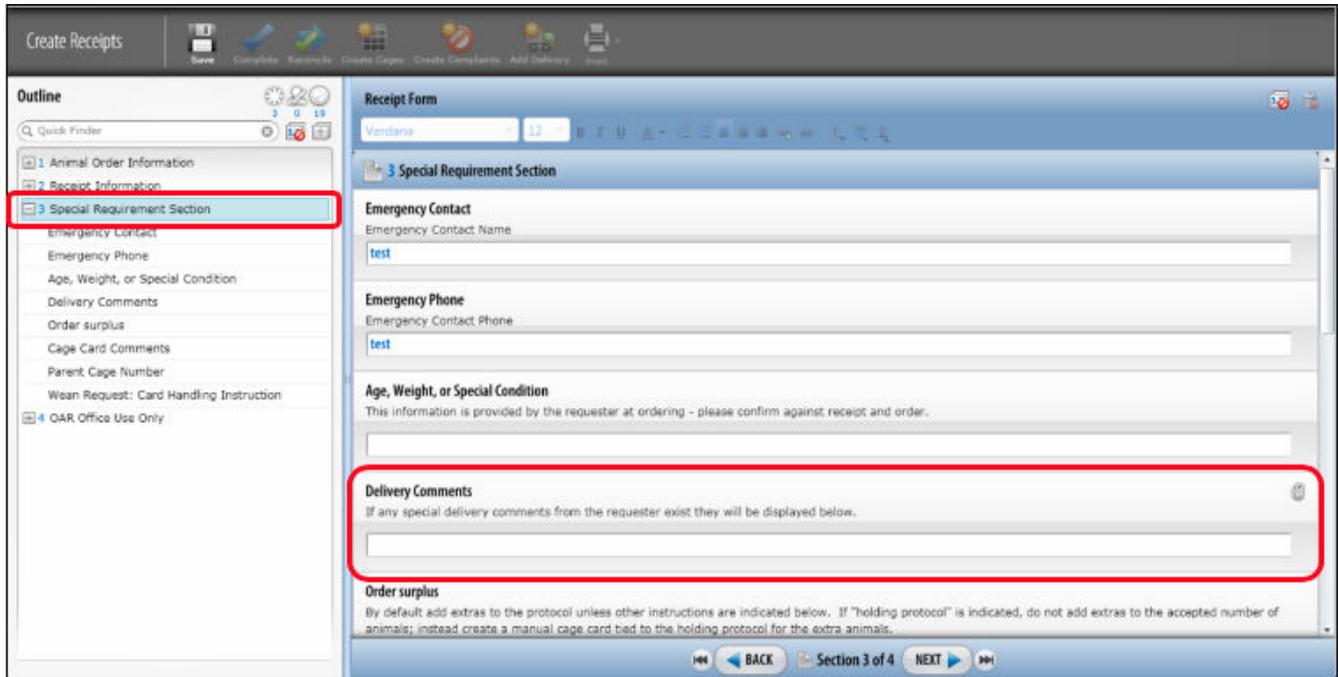
The screenshot shows the 'Create Receipts' application interface. The 'Receipt Form' is open, and the 'Receipt Information' section is selected in the 'Outline' on the left. The 'Animals Received' section is highlighted with a red box. It displays a table with the following data:

Requested:	Males	Females	Either	Total Requested
	2	2	0	4
Accepted:	Males 2	Females 2		4 Total Accepted
Not Accepted:	Males 0	Females 0		0 Total Not Accepted

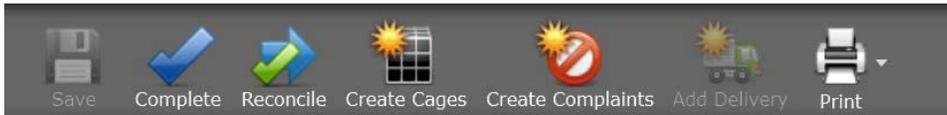
Below the table, the 'Birth Date' field is highlighted with a red box and contains the date 7/20/18. The 'Completed Date and Time' field shows 8/20/18 at 10:32 AM.

- If there is a **SHORTAGE**, enter the correct number of animals received. Then [Submit a Complaint](#). Do this if the shortage results from animals arriving sick or injured as well.
- If there is a **SURPLUS**, determine whether extra animals are to be received or added to a holding protocol. (*See comments under **Order Surplus**.*)
 - If receiving, enter the actual number being accepted under **Animals Received**.
 - If adding to a holding protocol, enter the numbers being accepted/not accepted, then [Submit a Complaint](#) – OAR Administration will contact you regarding the surplus.

Step 3: Open the third section, *Special Requirement Section*, under **Delivery Comments**, verify that the special housing or other instructions given by the requestor were completed.



Step 4: Click **Save**, then **Complete**. An e-signature window will appear. Enter your **CU IdentiKey** and **Password**.



Step 5: An email template window will appear. Edit the email, if necessary, then click **Send**.

Print Cage Cards

With the receipt saved, continue to print your cards.

Step 1: Click Create Cages.



Step 2: In the *Generate Cages* window, verify the information and click **Generate Cages.**

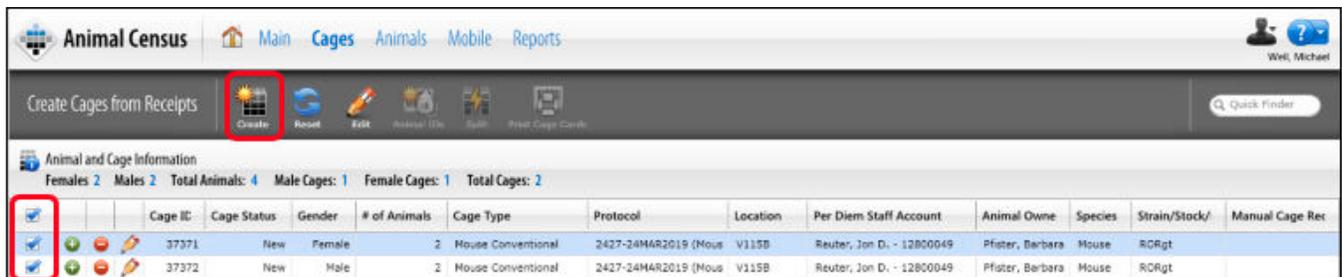
Generate Cages

<p>CAGE INFORMATION</p> <p>Location: <input type="text" value="V115B"/></p> <p>Cage Status: <input type="text" value="New"/></p> <p>Cage Type: <input type="text" value="Mouse Conventional"/></p> <p>Males / Cage: <input type="text" value="2"/></p> <p>Females / Cage: <input type="text" value="2"/></p> <p>MALE CAGES: 1</p> <p>FEMALE CAGES: 1</p> <p>TOTAL CAGES: 2</p>	<p>RECEIPT INFORMATION</p> <p>Requisition Number: 18TEST2605</p> <p>Receipt Date: 9/9/18</p> <p>Protocol Species: 2427-24MAR2019 (Mouse)</p> <p>PI: Reuter, Jon D.</p> <p>Males: 2</p> <p>Females: 2</p> <p>Total Animals: 4</p>
---	---

Step 3: In the left side of the grid, **check the boxes next to the desired cages.**

- [What to do about Cage Card Variances?](#) (i.e. The number of cages needed does not match the system generated number.)

Step 4: Click Create.



	Cage ID	Cage Status	Gender	# of Animals	Cage Type	Protocol	Location	Per Diem Staff Account	Animal Owne	Species	Strain/Stock/	Manual Cage Ret
<input checked="" type="checkbox"/>	37371	New	Female	2	Mouse Conventional	2427-24MAR2019 (Mous	V115B	Reuter, Jon D. - 12800049	Pfister, Barbara	Mouse	RORgt	
<input checked="" type="checkbox"/>	37372	New	Male	2	Mouse Conventional	2427-24MAR2019 (Mous	V115B	Reuter, Jon D. - 12800049	Pfister, Barbara	Mouse	RORgt	

Step 5: Click Print Cage Card.



Step 6: In the *Print Cage Cards* window, select **Cage Card (Standard)** for the template. Enter any additional notes in the comments box that you want to be displayed on the cage card. Then click **Generate Cage Card**.



Step 7: A PDF of new cards will be generated inside the Topaz window. Save and/or print the cards, as needed.

ID 0000037371		
<hr/>		
PI: Reuter, Jon D.	EMER Contact: test	
Protocol #: 2427-24MAR2019	EMER Phone: test	
Strain: RORgt		
DOB: 7/20/2018	Parent Cage: test	
Arrival/Wean Date: 9/9/2018	Room: Wilderness, V115B	
Req # / Wean ID: 18TEST2605	Cage Type: Mouse Conventional	
<hr/>		
Comments: test		
Staff Notes:		
ID 0000037371		

Cage Card Variance – Method 1 (Preferred)

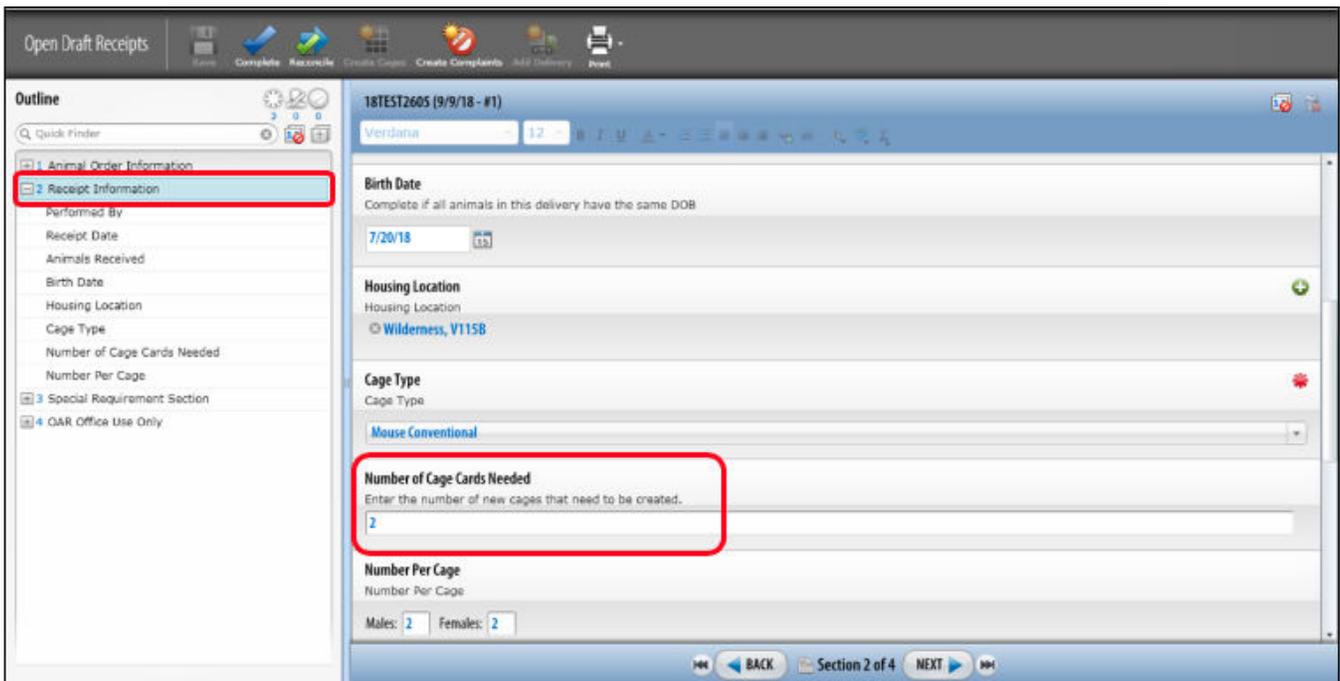
When creating cages, Topaz takes into account the # animals being received and the # animals per cage that was set in the original requisition. However, there may be times when the number of cages the system generates exceeds the actual number needed by the lab.

There are two methods you can use to reconcile the cage card variance:

- 1) Manually adjust the # animals per cage so that less cages are generated.
- 2) Create all cage cards and deactivate cards that are not needed.

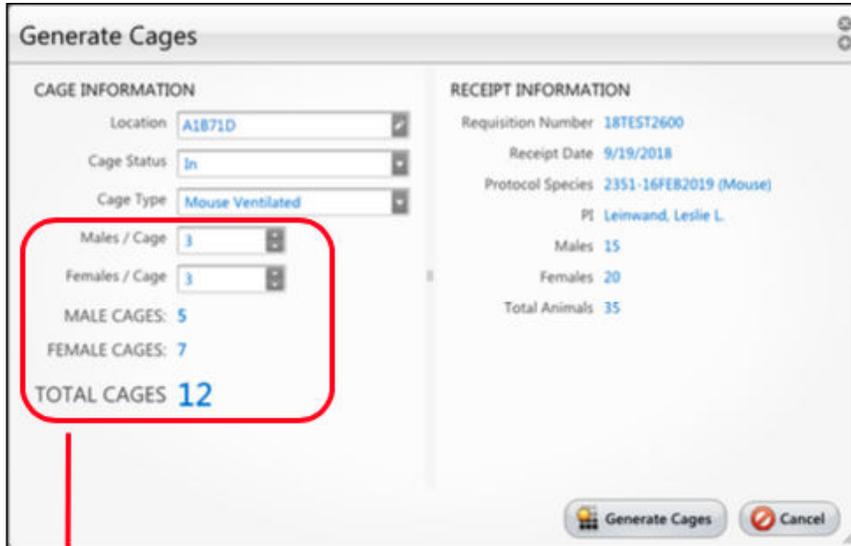
Method 1 – Manually adjust the # animals per cage so that less cages are generated.

Step 1: Check the **Number of Cage Cards Needed** on the receipt under the *Receipt Information* section.



The screenshot displays the Topaz software interface for creating a receipt. The left sidebar shows the 'Outline' with '2 Receipt Information' selected and highlighted in red. The main content area shows the '18TEST2605 (9/9/18 - #1)' receipt form. The 'Number of Cage Cards Needed' field is highlighted with a red box and contains the value '2'. Other fields include 'Birth Date' (7/20/18), 'Housing Location' (Wilderness, V115B), 'Cage Type' (Mouse Conventional), and 'Number Per Cage' (Males: 2, Females: 2). The bottom navigation bar shows 'Section 2 of 4'.

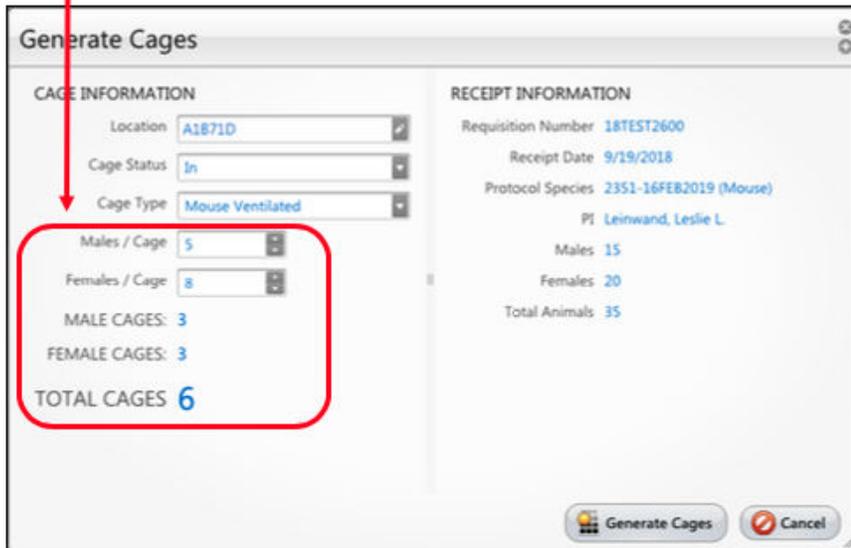
Step 2: Adjust the number of **males and females per cage** until the **Total Cages** matches the number of cages needed. *(When you increase the number per cage, the total cages created goes down.)* Then click **Generate Cages**.



Generate Cages

CAGE INFORMATION	RECEIPT INFORMATION
Location: A1871D	Requisition Number: 18TEST2600
Cage Status: In	Receipt Date: 9/19/2018
Cage Type: Mouse Ventilated	Protocol Species: 2351-16FEB2019 (Mouse)
Males / Cage: 3	PI: Leinwand, Leslie L.
Females / Cage: 3	Males: 15
MALE CAGES: 5	Females: 20
FEMALE CAGES: 7	Total Animals: 35
TOTAL CAGES: 12	

Buttons: **Generate Cages** (with cage icon), **Cancel** (with red X icon)

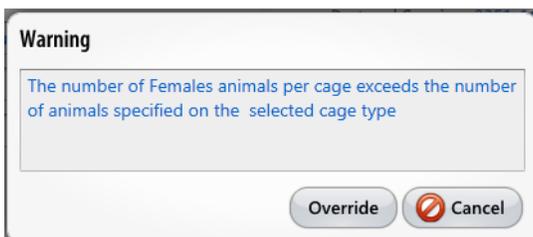


Generate Cages

CAGE INFORMATION	RECEIPT INFORMATION
Location: A1871D	Requisition Number: 18TEST2600
Cage Status: In	Receipt Date: 9/19/2018
Cage Type: Mouse Ventilated	Protocol Species: 2351-16FEB2019 (Mouse)
Males / Cage: 5	PI: Leinwand, Leslie L.
Females / Cage: 8	Males: 15
MALE CAGES: 3	Females: 20
FEMALE CAGES: 3	Total Animals: 35
TOTAL CAGES: 6	

Buttons: **Generate Cages** (with cage icon), **Cancel** (with red X icon)

Step 3: You may receive a warning if the adjustment was higher than the maximum allowable animals per cage type. – If the adjusted number of male cages and female cages is correct, click **Override**.



Warning

The number of Females animals per cage exceeds the number of animals specified on the selected cage type

Buttons: **Override**, **Cancel** (with red X icon)

Step 4: Check the box at the top of column to select all the cages.

No Animals Without Housing Females: 0 Males: 0		Animal and Cage Information Females 20 Males 15 Total Animals: 35 Male Cages: 3 Female Cages: 3 Total Cages: 6									
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cage ID	Cage Status	Gender	# of Animals	Cage Type	Protocol	Location
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37379	In	Female	8	Mouse Ventilated	2351-16FEB2019 (Mous)	A1B71D
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37380	In	Female	8	Mouse Ventilated	2351-16FEB2019 (Mous)	A1B71D
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37381	In	Female	4	Mouse Ventilated	2351-16FEB2019 (Mous)	A1B71D
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37382	In	Male	5	Mouse Ventilated	2351-16FEB2019 (Mous)	A1B71D
<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	37383	In	Male	5	Mouse Ventilated	2351-16FEB2019 (Mous)	A1B71D

Step 5: Click **Create**.



Step 6: Click **Print Cage Card**.



Step 7: In the Print Cage Cards window, select **Cage Card (Standard)** for the template. Enter any additional notes in the comments box that you want to be displayed on the cage card. Then click **Generate Cage Card**.

Print Cage Cards

Number of Cage Cards:

Cage Card Template:

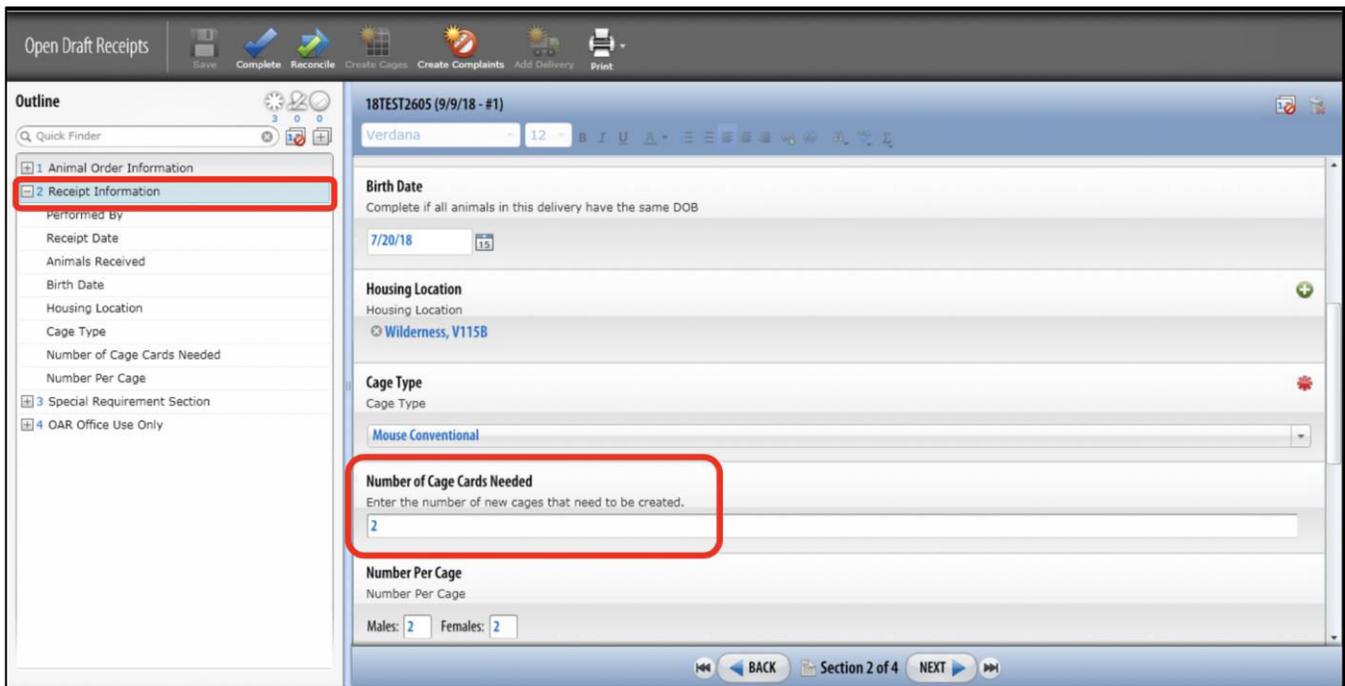
Cage Card Comments:

Cage Card Variance – Method 2

Method 2 – Create all cage cards and deactivate cards that are not needed.

PLEASE NOTE: This method, in which you accept the total cages number generated by Topaz, does *NOT* stop the unselected cage IDs from being created – it only stops the creation of cards from being printed. If a **cage ID** is “generated” then *it is active accruing per diem*, even if the **cage card** was not “created.” These unchecked cages will need to be DEACTIVATED.

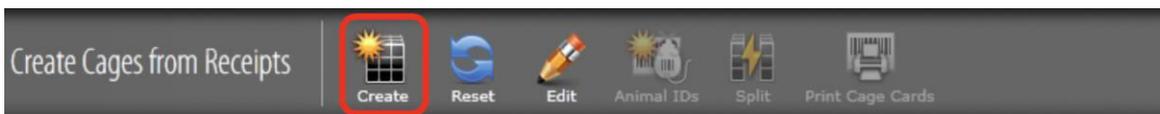
Step 1: Check the **Number of Cage Cards Needed** on the receipt under the *Receipt Information* section.



The screenshot shows a software interface for receipt management. On the left, an 'Outline' pane lists sections: 1 Animal Order Information, 2 Receipt Information (highlighted with a red box), 3 Special Requirement Section, and 4 OAR Office Use Only. The main area displays receipt details for '18TEST2605 (9/9/18 - #1)'. Fields include Birth Date (7/20/18), Housing Location (Wilderness, V115B), and Cage Type (Mouse Conventional). A red box highlights the 'Number of Cage Cards Needed' field, which contains the value '2'. Below it, the 'Number Per Cage' section shows 'Males: 2' and 'Females: 2'. Navigation buttons 'BACK' and 'NEXT' are visible at the bottom.

Step 2: Accept the system-generated number of cages by clicking **Create Cages** – even if the number is incorrect.

Step 3: Check the number of cage cards to create and click **Create**.



NOTE: The unchecked lines are still *ACTIVE CAGE IDs* and accruing per diem.

Step 4: Click **Print Cage Cards**.



Step 5: In the Print Cage Cards window, select **Cage Card (Standard)** for the template. Enter any additional notes in the comments box that you want to be displayed on the cage card. Then click **Generate Cage Card**.



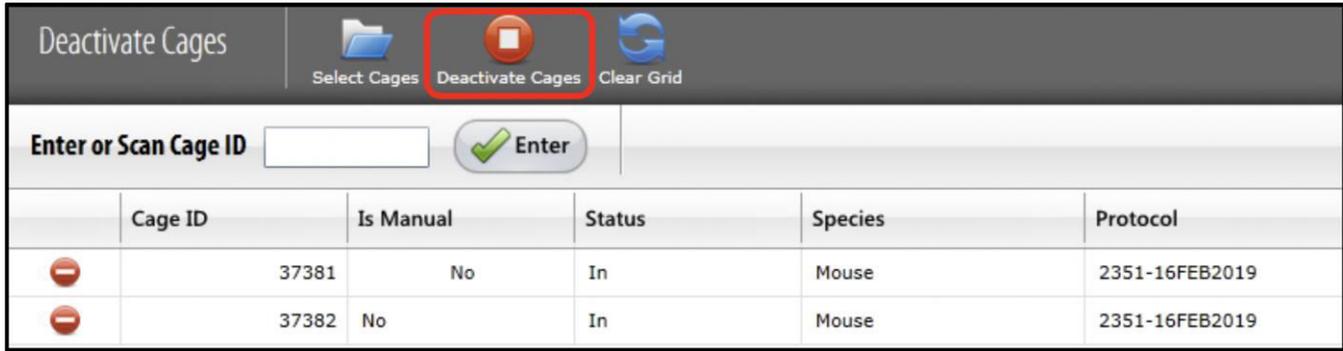
Step 6: Return to the *Animal Census/Cages* menu and select **Deactivate Cages**.



Step 7: Click **Select Cages** – enter the cage number(s) to deactivate.

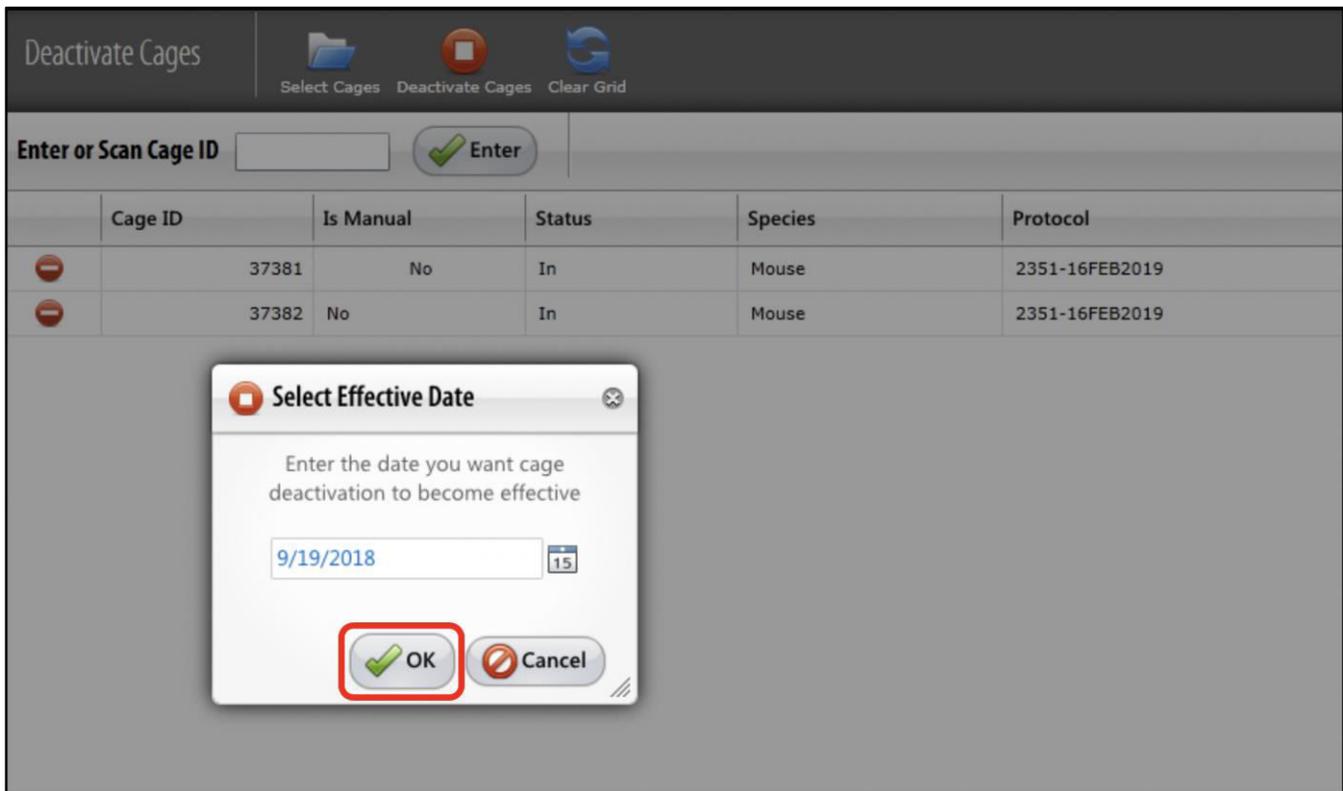
Step 8: In the next window, find and select the extra cage IDs that were generated and need to be deactivated. Click **OK**.

Step 9: Click **Deactivate Cages**.



	Cage ID	Is Manual	Status	Species	Protocol
⊖	37381	No	In	Mouse	2351-16FEB2019
⊖	37382	No	In	Mouse	2351-16FEB2019

Step 10: Select the date the cages were created (most likely today's date if you are deactivating immediately). Click **OK**.



Select Effective Date

Enter the date you want cage deactivation to become effective

9/19/2018

Animal Imports

Process these in the same manner as animals ordered and received from a vendor.
See [Animal Orders](#).

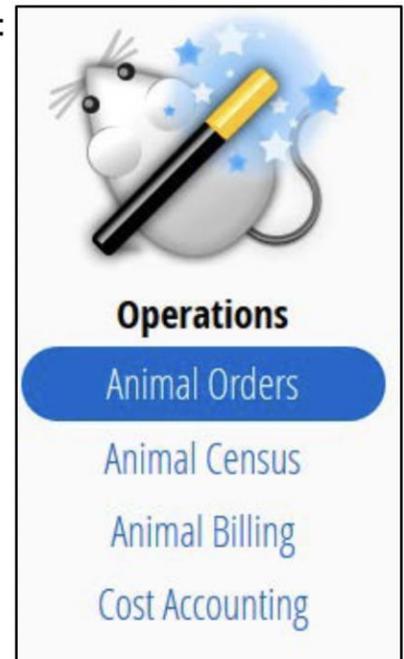
Submit A Complaint

Submit a complaint to report any discrepancies between the order placed and what arrived, e.g. shortages, overages, dead or injured animals. You may also use a complaint to report other issues such as wrong delivery location, wrong strain, etc.

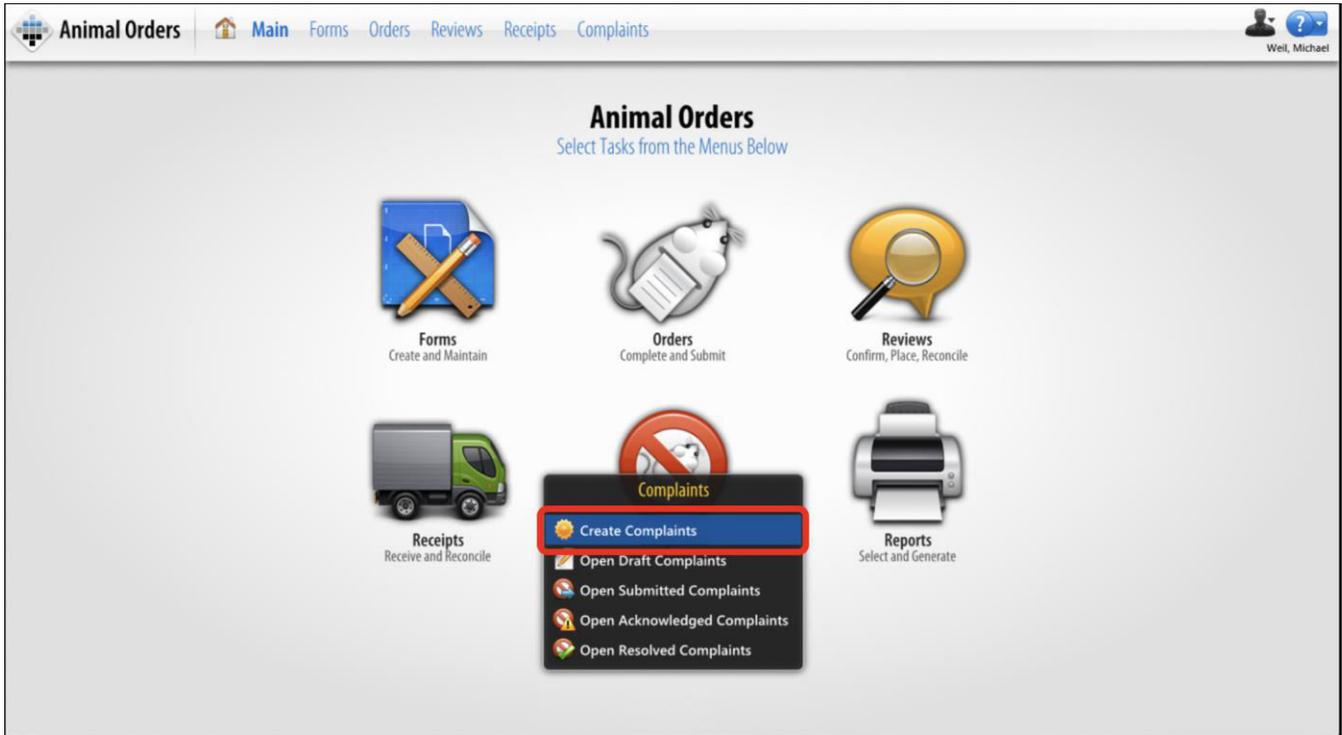
Step 1: Hover your cursor over the *Product Selector* in the top left corner of the screen. A menu will appear. Under *Operations*, click on **Animal Orders**.



- OR - From the Topaz landing page:



Step 2: Hover your cursor over *Complaints*. A menu will appear. Select **Create Complaints**.



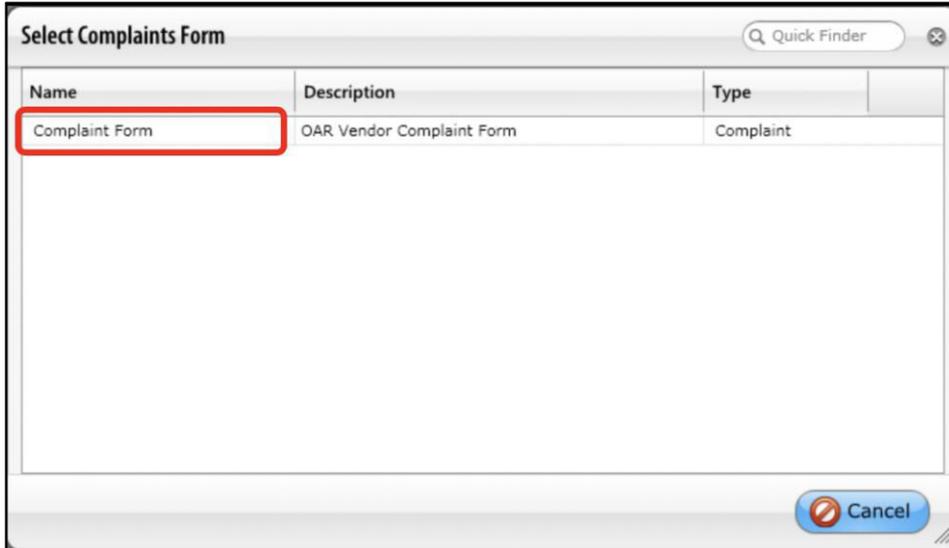
Step 3: In the **Select Receipt** window, select the requisition from the list.

Select Receipt Filter: Not Set...

Delivery Date	Vendor	Requisition #	Protocol #	Principal Inve	Requester	Species	Received Dat	Housing Lo
3/2/15	ENVIGO	15HSD187	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Mouse	3/2/15	Gold Transg
3/30/15	Jackson Labora	15JAX048	1301.05-4FEB2	Leinwand, Lesli	Pfister, Barbara	Mouse	3/30/15	Gold Transg
3/30/15	ENVIGO	15HSD198	1312.11-14FEB	Lowry, Christop	Pfister, Barbara	Rat	3/30/15	Ramaley, N
4/6/15	ENVIGO	15HSD215	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Mouse	4/6/15	Gold Conve
4/6/15	ENVIGO	15HSD213	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Rat	4/6/15	Gold Transg
4/6/15	ENVIGO	15HSD214	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Mouse	4/6/15	Gold Transg
4/6/15	ENVIGO	15HSD216	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Rat	4/6/15	Muenzinger
4/6/15	ENVIGO	15HSD217	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Mouse	4/6/15	Muenzinger
4/6/15	ENVIGO	15HSD219	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Rat	4/6/15	Ramaley, N
4/6/15	ENVIGO	15HSD218	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Mouse	4/6/15	Ramaley, N
4/6/15	ENVIGO	15HSD205	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Mouse	4/6/15	IBG, 271
4/6/15	ENVIGO	15CMPT001	1205.11-13JUN	Brining, Dougl	Pfister, Barbara	Rat	4/6/15	Muenzinger
4/6/15	ENVIGO	15HSD211	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Mouse	4/7/15	BioFrontiers
4/6/15	ENVIGO	15HSD212	1303.01-25MAF	Reuter, Jon D.	Pfister, Barbara	Rat	4/6/15	BioFrontiers
4/13/15	National Institu	15NIA011	1404.02-10JUN	Martens, Christ	Pfister, Barbara	Mouse	4/13/15	Gold Conve
4/13/15	ENVIGO	Holding 041315	1205.11-13JUN	Brining, Dougl	Pfister, Barbara	Rat	4/13/15	Muenzinger
4/20/15	ENVIGO	15HSD225	1403.03-5MAY2	Watkins, Linda	Pfister, Barbara	Rat	4/20/15	Muenzinger
4/20/15	ENVIGO	15HSD229	1408.04-10SEP	Saddoris, Micha	Pfister, Barbara	Rat	4/20/15	Muenzinger
4/20/15	ENVIGO	15HSD227	1312.11-14FEB	Lowry, Christop	Heinze, Jared	Rat	4/20/15	Ramaley, N

Page 1 of 3. 2413 total record(s) found.

Step 4: Select **Complaint Form** from the *Select Complaints Form* window.

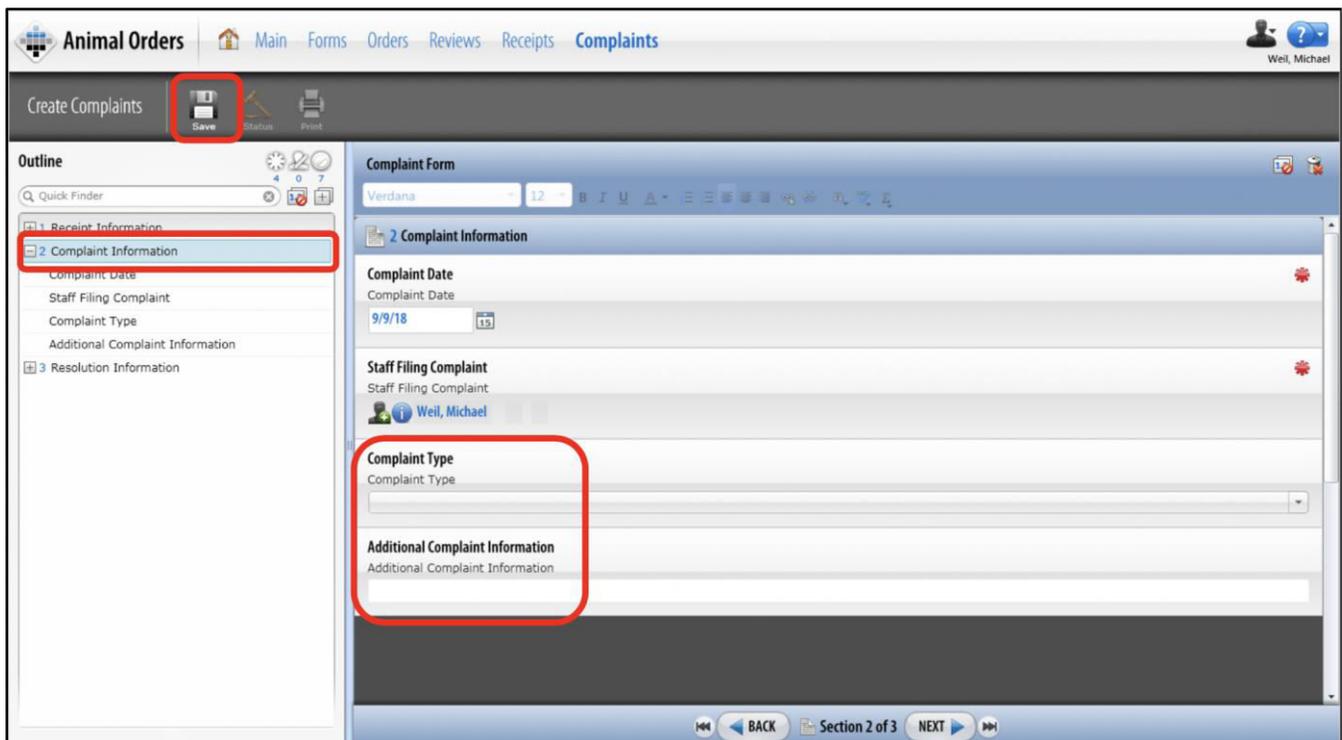


Step 5: Under *Complaint Information*, select the reason for submitting your complaint from the list.

- If your reason is not listed, select *Other* and enter an explanation under **Additional Complaint Information**.

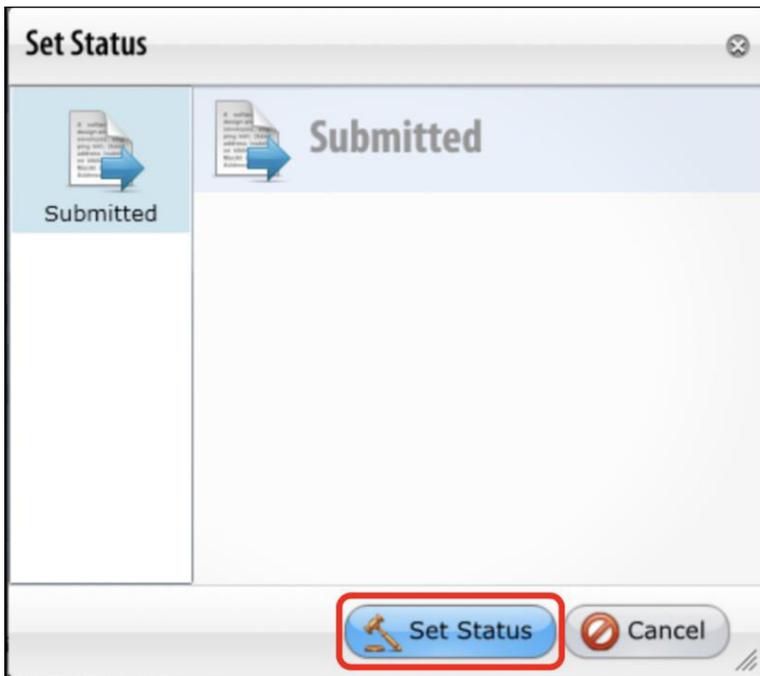
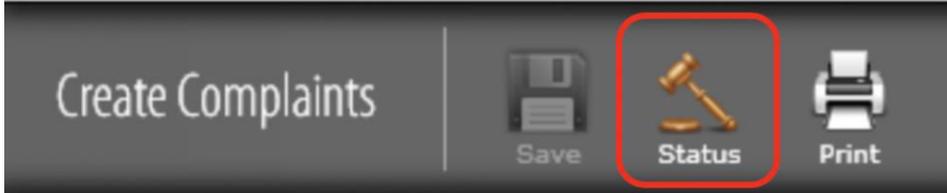
Step 6: Enter any additional information under **Additional Complaints Information**.

Step 7: Click the **Save** button.



Step 8: Click the **Status** button.

- A new Set Status window will appear and the “Submitted” status will be selected. Click the **Set Status** button to finalize and submit the complaint form.



Step 9: An email template window will appear. Edit the email, if necessary, then click **Send**.

Run An Arrival Report

The OAR office notifies each facility of upcoming deliveries; however, if you would like to verify upcoming animal deliveries on your own, you can run an arrival report.

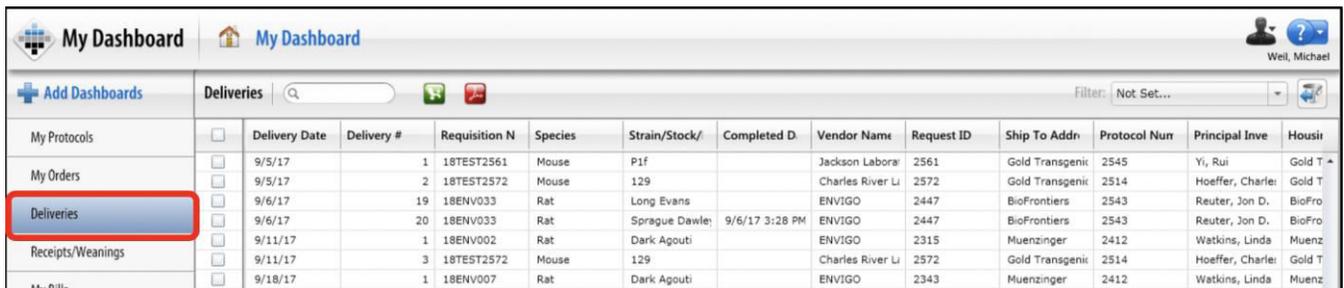
Step 1: From the Topaz homepage, under *Places*, click on **My Dashboard**.



TOPAZ Elements

- Places**
 - Administration
 - My Dashboard**
 - TOPAZ Website
- Compliance**
 - Animal Protocols
 - Staff Training
- Operations**
 - Animal Orders
 - Animal Census
 - Animal Billing
 - Cost Accounting
- Management**
 - Veterinary Management
 - TOPAZ Reporter

Step 2: In the menu on the left, click on **Deliveries**. The table will show a list of upcoming deliveries.



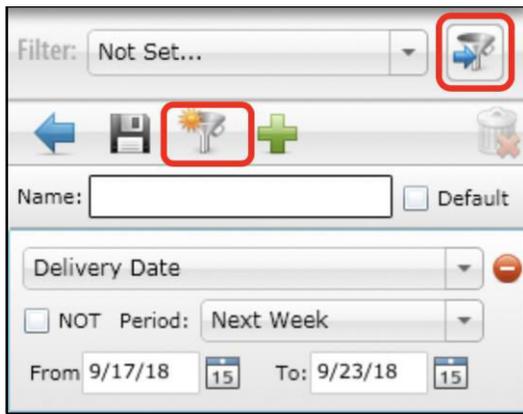
	Delivery Date	Delivery #	Requisition N	Species	Strain/Stock/	Completed D	Vendor Name	Request ID	Ship To Addr	Protocol Nun	Principal Inve	Housir
My Protocols												
My Orders	9/5/17	1	18TEST2561	Mouse	P1f		Jackson Labora	2561	Gold Transgenic	2545	Yi, Rui	Gold T
	9/5/17	2	18TEST2572	Mouse	129		Charles River Lu	2572	Gold Transgenic	2514	Hoeffler, Charle	Gold T
	9/6/17	19	18ENV033	Rat	Long Evans		ENVIGO	2447	BioFrontiers	2543	Reuter, Jon D.	BioPro
Deliveries	9/6/17	20	18ENV033	Rat	Sprague Dawley	9/6/17 3:28 PM	ENVIGO	2447	BioFrontiers	2543	Reuter, Jon D.	BioPro
	9/11/17	1	18ENV002	Rat	Dark Agouti		ENVIGO	2315	Muenzinger	2412	Watkins, Linda	Muenz
Receipts/Weanings	9/11/17	3	18TEST2572	Mouse	129		Charles River Lu	2572	Gold Transgenic	2514	Hoeffler, Charle	Gold T
My Bills	9/18/17	1	18ENV007	Rat	Dark Agouti		ENVIGO	2343	Muenzinger	2412	Watkins, Linda	Muenz

Step 3: Click  the **Filter** button in the top right corner of the dashboard screen to open the *Filter Panel*.

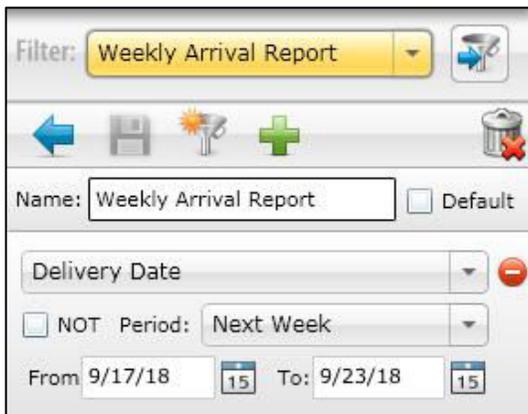
Step 4: In the *Filter Panel*, click  the **Create New Filter** button.

Step 5: Follow these four steps:

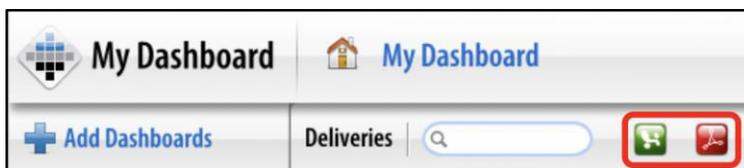
- Enter a name in the **Name** field if you plan to save the filter.
- In the drop-down menu, select **Delivery Date** from the list.
- For *Period*, select **Next Week**.
- Click **Save**.



Step 6: If the save is successful, the filter list at the top of the screen will refresh and automatically apply the new *Named* filter. Active filters will appear in gold. This filter will be available for use in future sessions.



Step 7: With the filter applied, use the shortcut buttons at the top of the screen to print the report to Excel or PDF. Choose whichever format you prefer.

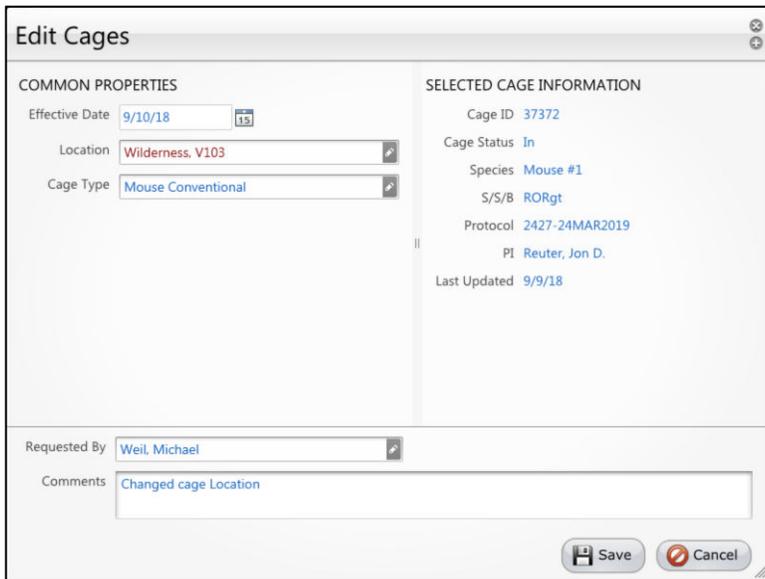


Edit Cage Details

To edit cage details, follow the path for the according action:

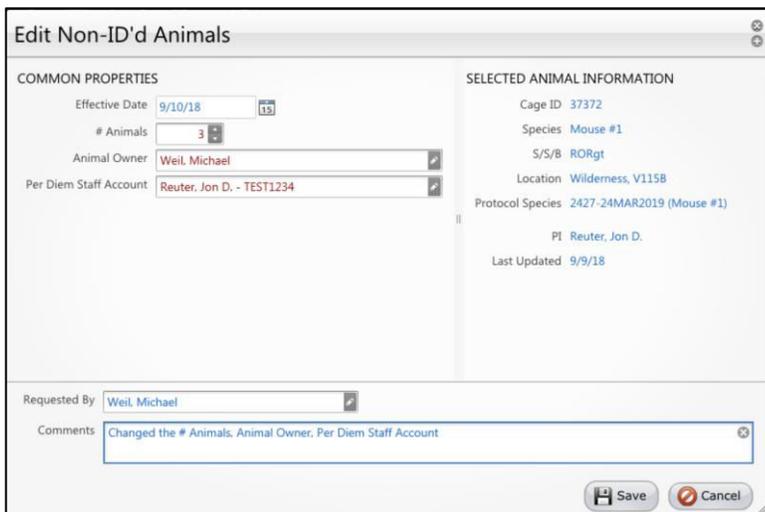
Cage Type or Location

- Topaz Technologies > Animal Census > Cages > Edit Cages > Select Cage (on *Select Cages* screen) and click OK > Select cages on *Edit Cages* page > Click Edit > Enter the change(s) under *Comments* > Save



Animals, Animal Owner, Speedtype/Account, or Protocol (i.e. to transfer to another protocol)

- Topaz Technologies > Animal Census > Animals > Edit Non-ID'd Animals > On *Select Cages* screen choose the Cage ID and click OK > On *Edit Non-ID'd Animals* page choose the Cage ID and click Edit > Enter the changes(s) under *Comments* > Save



Gender or Strain (S/S/B)

- Topaz Technologies > Animal Census > Animals > Admin Edit Non-ID'd Animals > On *Select Cages* screen choose the Cage ID and click OK > On *Admin Edit Non-ID'd* screen choose the ID and click the appropriate edit button > Enter the changes(s) under *Comments* > Save



Edit Gender

<p>GENDER</p> <p>Female</p>	<p>SELECTED ANIMAL INFORMATION</p> <p>Cage ID 1</p> <p>Species Rat #1</p> <p>S/S/B Sprague Dawley</p> <p>Location Gold Transgenics, Service Location</p> <p>Protocol Species 2427-24MAR2019 (Rat #1)</p> <p>PI Reuter, Jon D.</p> <p>Last Updated 8/23/17</p>
-----------------------------	---

Requested By: Weil, Michael

Comments: Enter Reason for Change

Edit S/S/B

<p>S/S/B</p> <p>Sprague Dawley</p>	<p>SELECTED ANIMAL INFORMATION</p> <p>Cage ID 1</p> <p>Species Rat #1</p> <p>S/S/B Sprague Dawley</p> <p>Location Gold Transgenics, Service Location</p> <p>Protocol Species 2427-24MAR2019 (Rat #1)</p> <p>PI Reuter, Jon D.</p> <p>Last Updated 8/23/17</p>
------------------------------------	---

Requested By: Weil, Michael

Comments: SSB Edited

2. Weanings

There are two ways to manage weanings and request new cage cards – the method is based on WHO is performing the wean:

1. **Lab-Managed Colonies:** Labs will request new cage cards via an animal order form called *Order Cards for Weaning*.
2. **OAR-Managed Colonies:** When animals are ready to be weaned, staff will use the *Weaning Form* to create and print additional cage cards.

Lab-Managed Colonies – Order Cards for Weaning

Process these in the same manner as animals ordered and received from a vendor. See [Animal Orders](#).

OAR-Managed Colonies – Weaning Forms

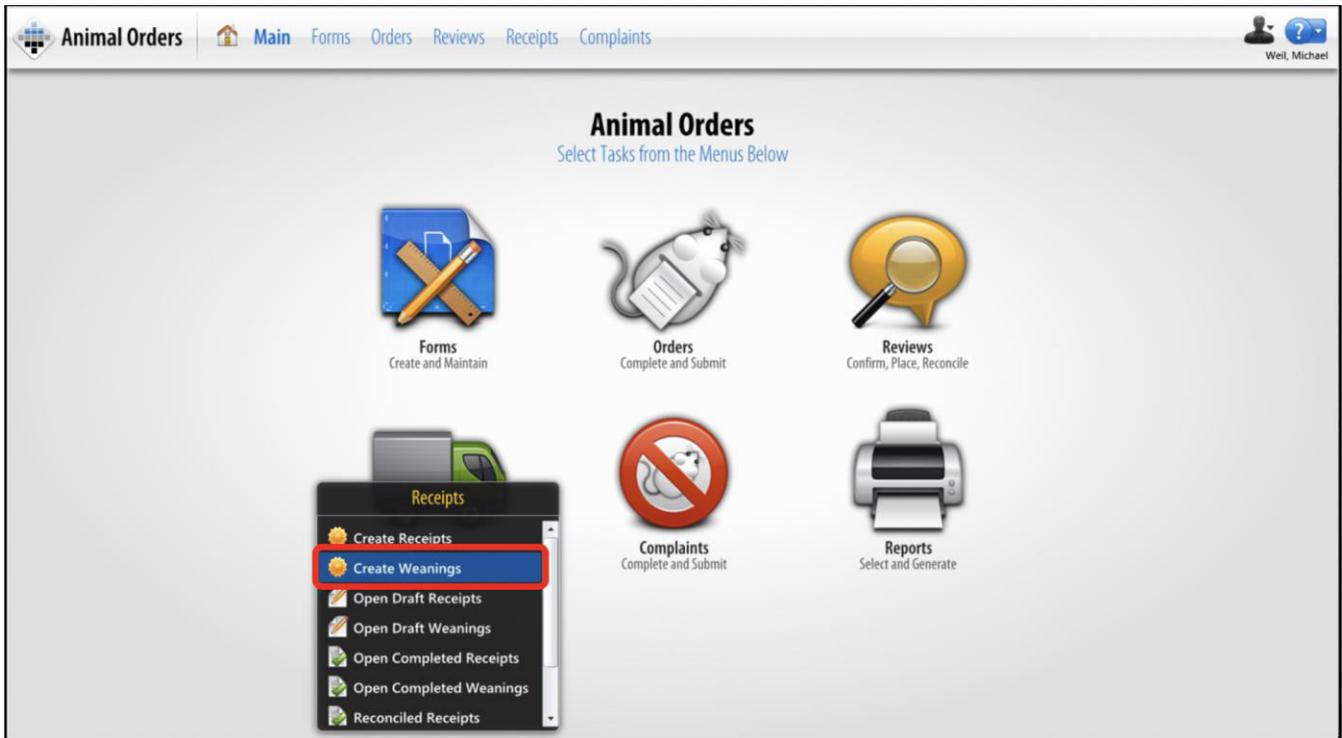
Step 1: Hover your cursor over the *Product Selector* in the top left corner of the screen. A menu will appear. Under *Operations*, click on **Animal Orders**.



- OR - From the Topaz landing page:

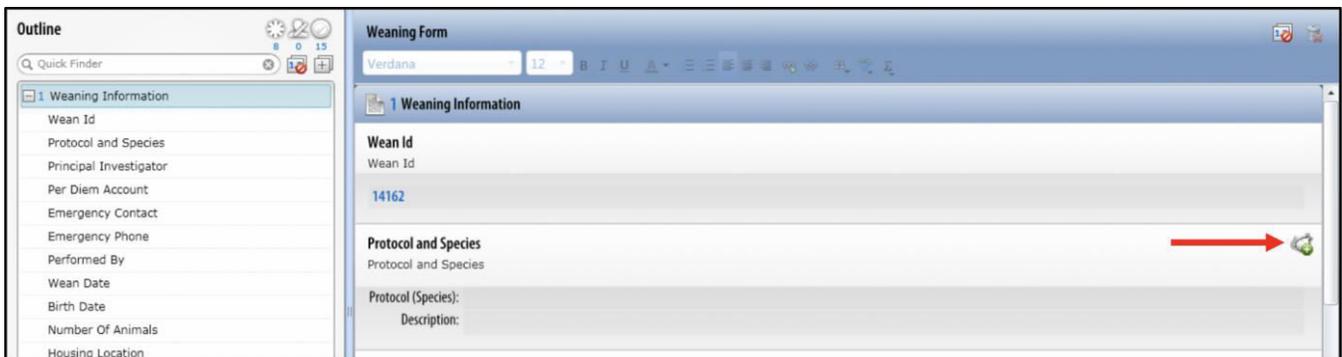


Step 2: Hover your cursor over **Receipts** and select **Create Weanings**.

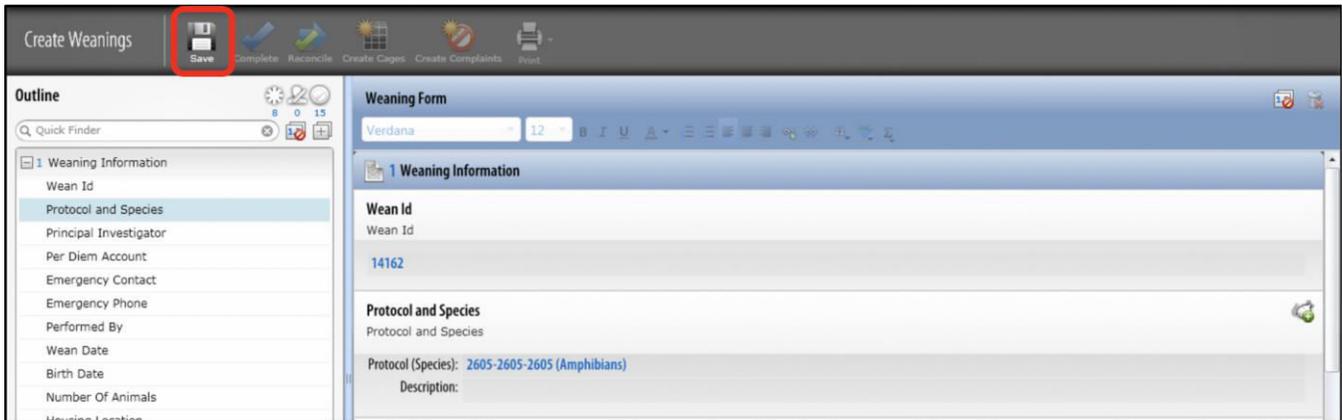


Step 3: In the next window, select **Weaning Form**.

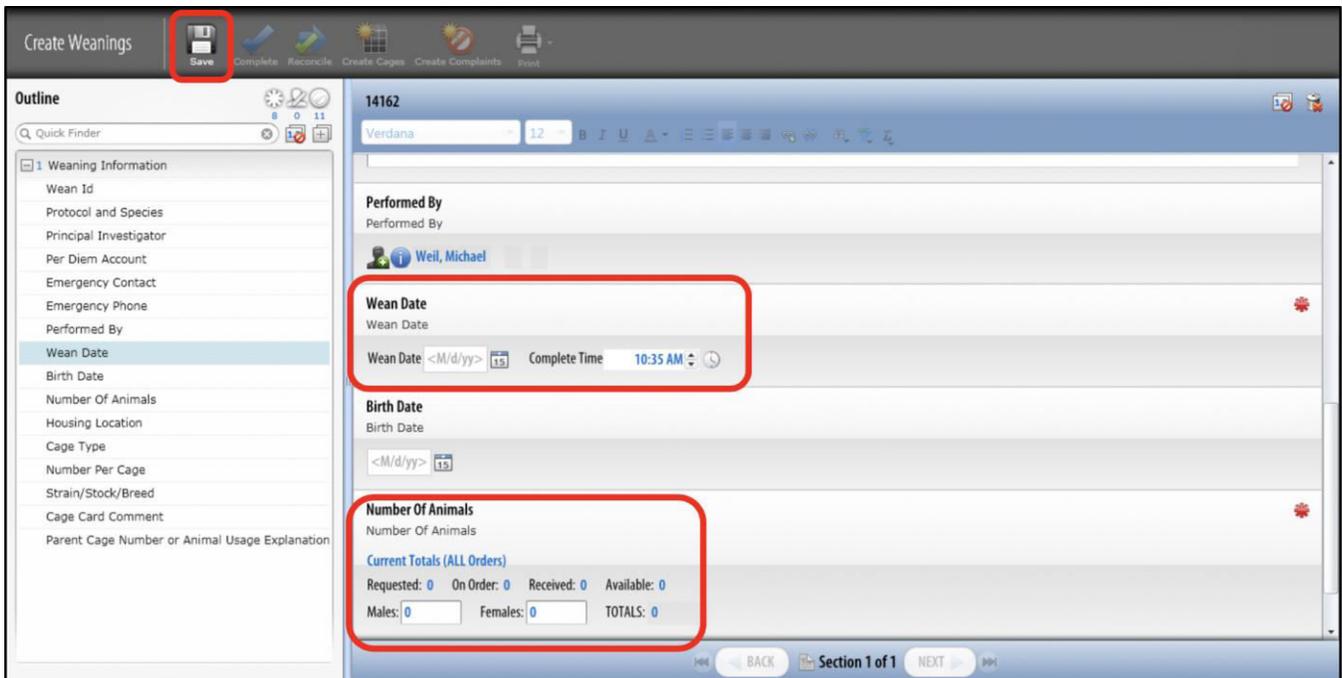
Step 4: Under *Protocol and Species*, click the **Select Protocol Species** button to select the protocol.



Step 5: After selecting the species, click **Save** to populate the form with the associated protocol.

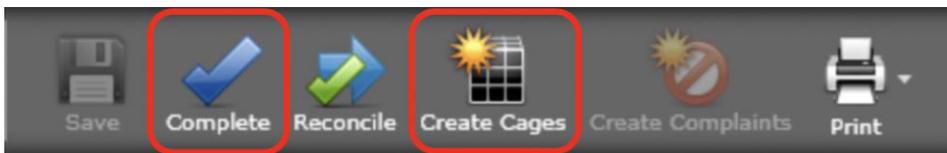


Step 6: Complete the questions. – Please confirm **Wean Date** and **Number of Animals**. – When finished, click **Save**.

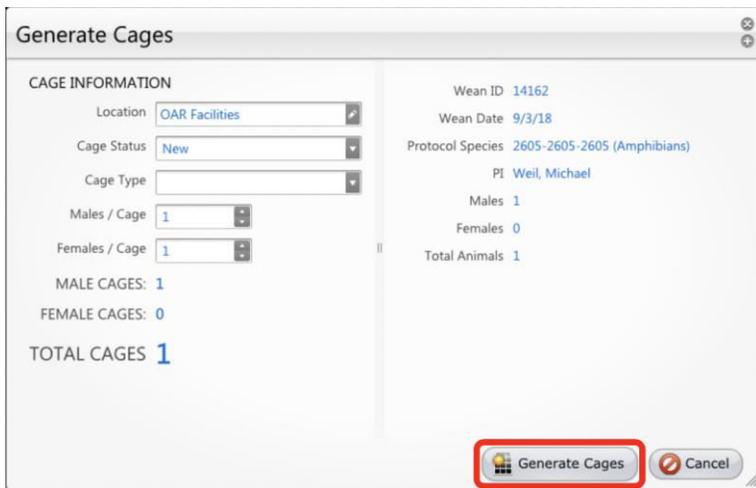


Step 7: Click on the **Complete** button. In the Complete receipts pop-up window, click **OK**. Then, click the **Save** button – an email goes to your PI.

Step 8: Now click the **Create Cages** button.



Step 9: Confirm the information, then click the **Generate Cages** button.



Generate Cages

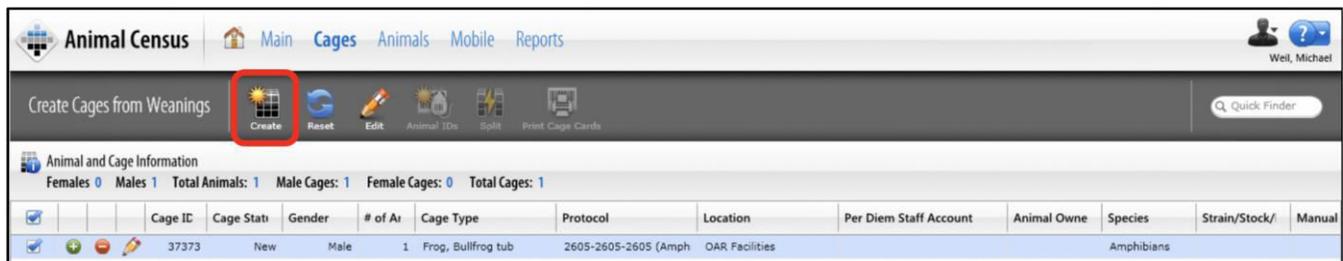
CAGE INFORMATION

Location: OAR Facilities
 Cage Status: New
 Cage Type: [Dropdown]
 Males / Cage: 1
 Females / Cage: 1
 MALE CAGES: 1
 FEMALE CAGES: 0
 TOTAL CAGES: 1

Wean ID: 14162
 Wean Date: 9/3/18
 Protocol Species: 2605-2605-2605 (Amphibians)
 PI: Weil, Michael
 Males: 1
 Females: 0
 Total Animals: 1

Generate Cages **Cancel**

Step 10: In the left side of the grid, check the boxes next to the desired cages, then click the **Create** button in the secondary menu.



Animal Census | Main | **Cages** | Animals | Mobile | Reports

Create Cages from Weanings | **Create** | Reset | Edit | Animal IDs | Split | Print Cage Cards

Animal and Cage Information
 Females 0 Males 1 Total Animals: 1 Male Cages: 1 Female Cages: 0 Total Cages: 1

<input type="checkbox"/>	Cage ID	Cage Status	Gender	# of An	Cage Type	Protocol	Location	Per Diem Staff Account	Animal Owner	Species	Strain/Stock/	Manual
<input checked="" type="checkbox"/>	37373	New	Male	1	Frog, Bullfrog tub	2605-2605-2605 (Amph)	OAR Facilities			Amphibians		

Step 11: Once the cage cards are created, click the **Print Cage Cards** button in the secondary menu. Enter any notes you want visible on the card in the *Cage Card Comments* box.



Print Cage Cards

Number of Cage Cards: 2

Cage Card Template: Cage Card (Standard)

Cage Card Comments: [Text Area]

Generate Cage Card **Cancel**

Step 12: A PDF of new cards will be generated in a new tab in your internet browser. Print the cards, as needed. – If using a Mac, you may need to open the PDF in *Preview* to print correctly.

ID 0000037371		
<hr/>		
PI: Reuter, Jon D.	EMER Contact: test	
Protocol #: 2427-24MAR2019	EMER Phone: test	
Strain: RORgt		
DOB: 7/20/2018	Parent Cage: test	
Arrival/Wean Date: 9/9/2018	Room: Wilderness, V115B	
Req # / Wean ID: 18TEST2605	Cage Type: Mouse Conventional	
<hr/>		
Comments: test		
Staff Notes:		
ID 0000037371		

3. Transfers

When transferring between protocols and/or between facilities, update the cage information (i.e. protocol and housing location) and print new cage cards in Topaz.

Step 1: Hover your cursor over the *Product Selector* in the top left corner of the screen. A menu will appear. Under *Operations*, click on **Animal Census**.



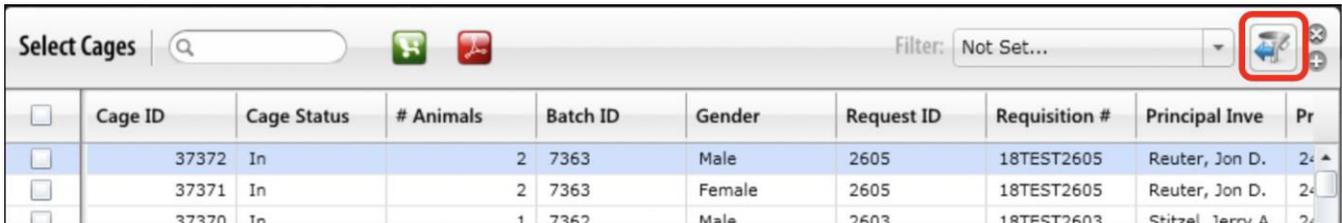
- OR - From the Topaz landing page:



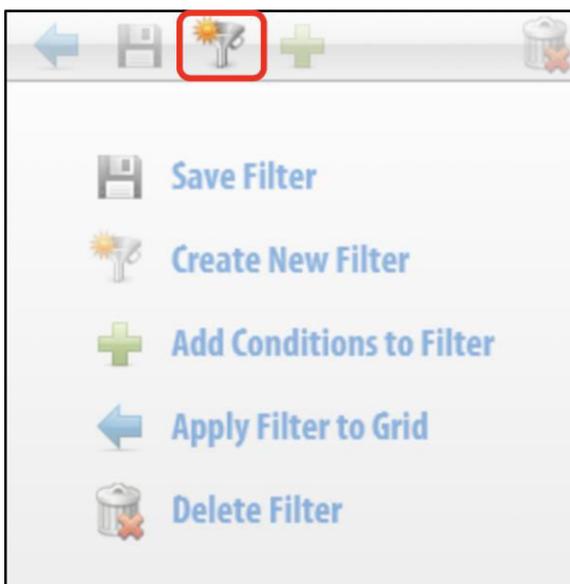
Step 2: Under *Animals* select **Edit Non-ID'd Animals**.



Step 3: Click  the **Filter** button in the top right corner of the dashboard screen to open the *Filter Panel*.

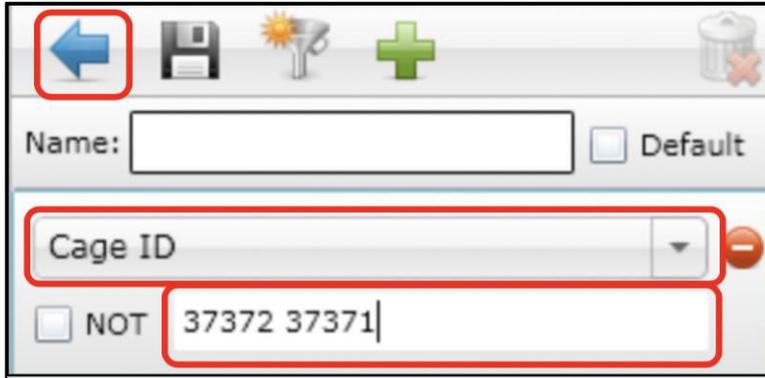


Step 4: In the *Filter Panel*, click  the **Create New Filter** button.



Step 5: Select **Cage ID** from the drop-down menu.

Step 6: Enter the Cage ID numbers – separate with single spaces. Then click  the **Apply Filter to Grid** button.

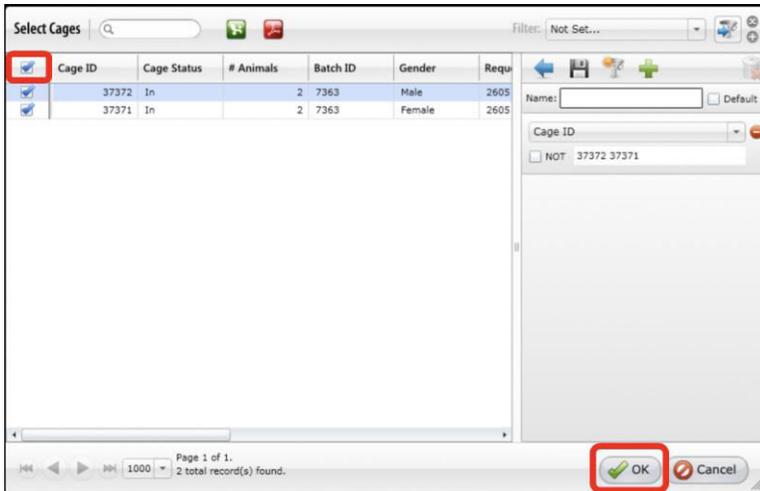


Name: Default

Cage ID

NOT 37372 37371

Step 7: Select all cages by clicking on the checkbox in the header row. Then click **OK**.



<input checked="" type="checkbox"/>	Cage ID	Cage Status	# Animals	Batch ID	Gender	Requ
<input checked="" type="checkbox"/>	37372	In	2	7363	Male	2605
<input checked="" type="checkbox"/>	37371	In	2	7363	Female	2605

Page 1 of 1. 2 total record(s) found.

Step 8: Select all cages by clicking on the checkbox in the header row. Click **Edit**.

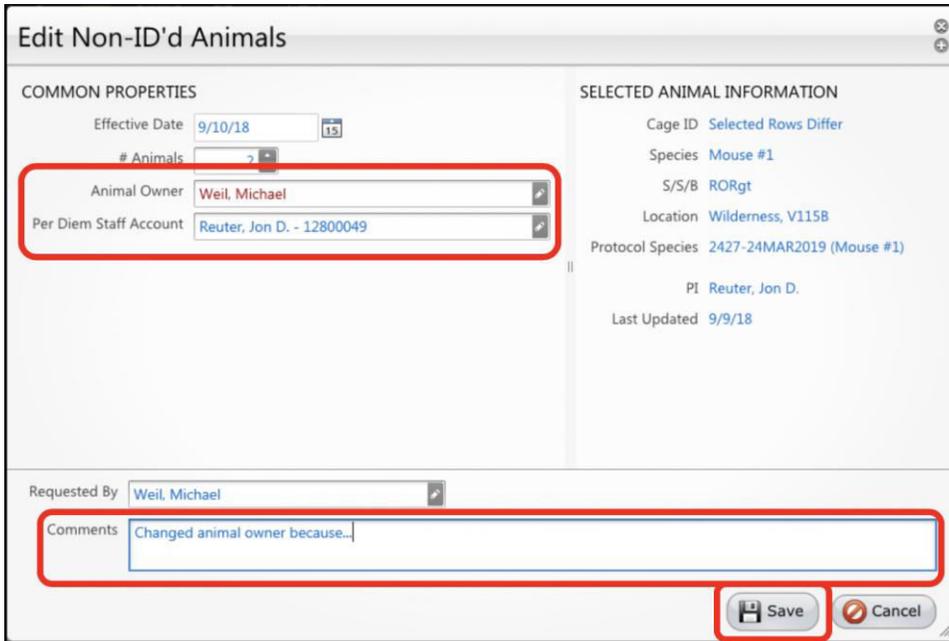


Animal Census | Main Cages **Animals** Mobile Reports

Edit Non-ID'd Animals |

<input checked="" type="checkbox"/>						Cage ID	Gender	Location	Species
<input checked="" type="checkbox"/>						37371	Female	Wilderness, V115B	Mouse #
<input checked="" type="checkbox"/>						37372	Male	Wilderness, V115B	Mouse #

Step 9: Update the **Animal Owner** (i.e. *Emergency Contact*) and **Staff Account**. Provide an explanation in the **Comments** box, then click **Save**.



Edit Non-ID'd Animals

COMMON PROPERTIES

Effective Date: 9/10/18

Animals: 2

Animal Owner: Weil, Michael

Per Diem Staff Account: Reuter, Jon D. - 12800049

SELECTED ANIMAL INFORMATION

Cage ID: Selected Rows Differ

Species: Mouse #1

S/S/B: RORgt

Location: Wilderness, V115B

Protocol Species: 2427-24MAR2019 (Mouse #1)

PI: Reuter, Jon D.

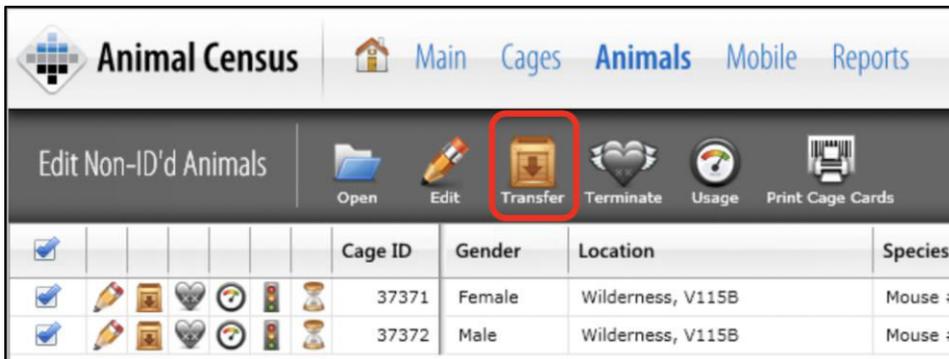
Last Updated: 9/9/18

Requested By: Weil, Michael

Comments: Changed animal owner because...

Save Cancel

Step 10: Again, select all cages by clicking on the checkbox in the header row. Then click **Transfer**.

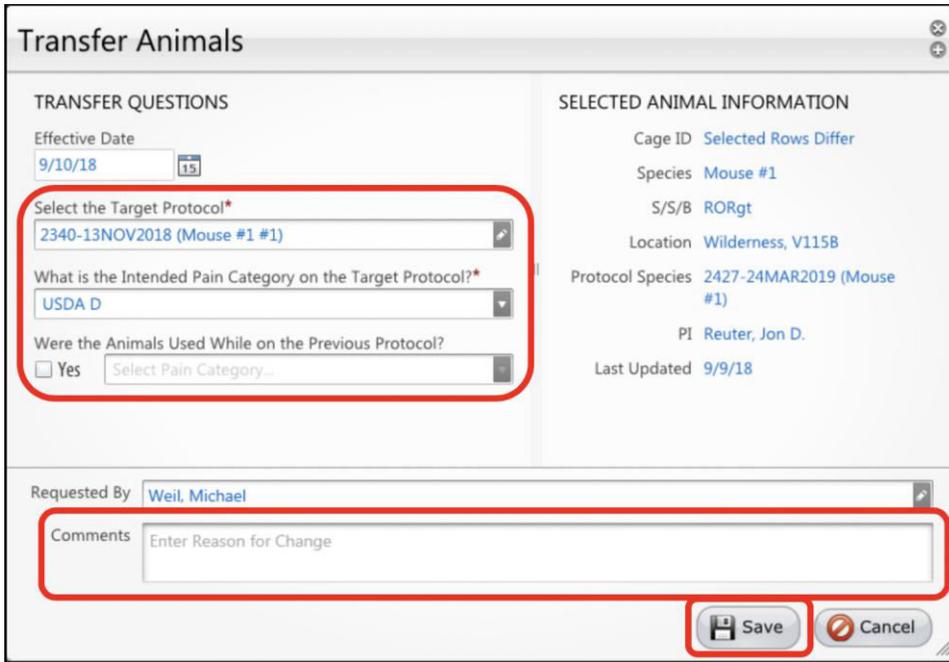


Animal Census | Main Cages **Animals** Mobile Reports

Edit Non-ID'd Animals | Open Edit **Transfer** Terminate Usage Print Cage Cards

| <input checked="" type="checkbox"/> | <input type="checkbox"/> | Cage ID | Gender | Location | Species |
|-------------------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|---------|--------|-------------------|---------|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 37371 | Female | Wilderness, V115B | Mouse # |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | 37372 | Male | Wilderness, V115B | Mouse # |

Step 11: Complete the **Transfer Questions** and provide an explanation in the **Comments** box. Then click **Save**.



Step 12: IF TRANSFERRING BETWEEN FACILITIES: Update the Cage Location by following the additional steps below. Otherwise, skip to the next step to print the new cage cards.

- a. From the *Animal Census* menu, open *Cages* and select **Edit Cages**.



b. Select all cages and click **OK**.

Select Cages   Filter: Not Set...  

<input type="checkbox"/>	Cage ID	Gender	Cage Status	Requisition N	Species	Principal Inve	# Animals	Planned # An
<input checked="" type="checkbox"/>	37372	Male	In	18TEST2605	Mouse #1	Reuter, Jon D.	2	
<input checked="" type="checkbox"/>	37371	Female	In	18TEST2605	Mouse #1	Reuter, Jon D.	2	
<input type="checkbox"/>	37370	Male	In	18TEST2603	Mouse #1	Stitzel, Jerry A.	1	
<input type="checkbox"/>	37369	Female	In	18TEST2603	Mouse #1	Stitzel, Jerry A.	1	
<input type="checkbox"/>	37368	Male	In	18ENV033	Rat #1	Reuter, Jon D.	2	
<input type="checkbox"/>	37367	Male	In	18ENV033	Rat #1	Reuter, Jon D.	2	

Page 1 of 5.
4670 total record(s) found.

c. On the Edit Cages screen, choose **ID** and click **Edit**.

Edit Cages   

<input checked="" type="checkbox"/>		Cage ID	Cage Status	Location
<input checked="" type="checkbox"/>		37371	In	Wilderness, V115B
<input checked="" type="checkbox"/>		37372	In	Wilderness, V115B

d. Update **Location** (and *Cage Type*, if applicable) and enter an explanation in the **Comments** box. Click **Save** to continue.

Edit Cages  

COMMON PROPERTIES

Effective Date 

Location 

Cage Type 

SELECTED CAGE INFORMATION

Cage ID

Cage Status

Species

S/S/B

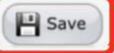
Protocol

PI

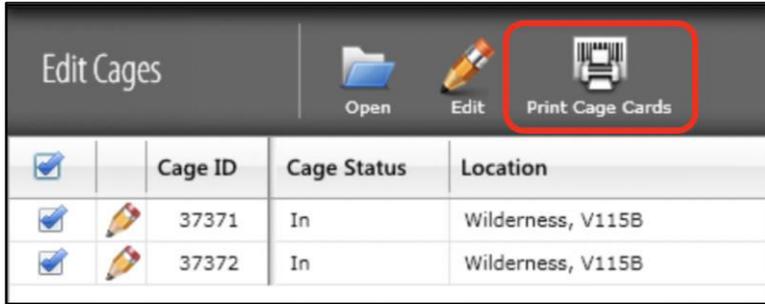
Last Updated

Requested By 

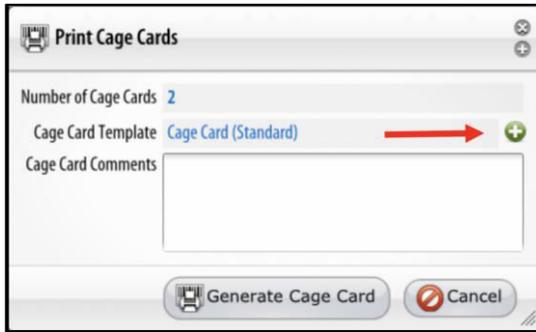
Comments

Step 13: Click **Print Cage Cards**.



Step 14: If the Emergency Contact was updated in the previous step (via the Animal Owner field), then select the **Special Use Cage Card** template. Then click **Generate Cage Card**.



Step 15: The Cage ID numbers have not changed, just the protocol information tied to them. So there is no need to deactivate the old cage cards, simply tear them up and discard.

4. Splitting Cages

This function is used to split cages for purposes other than weaning animals (e.g. cage mate aggression, separate breeders, separate for research purposes...)

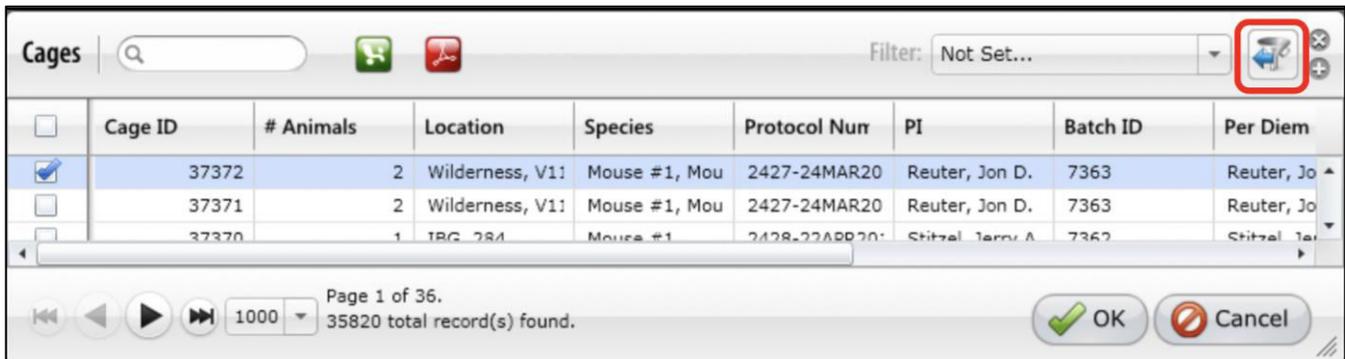
Step 1: Navigate to **Animal Census > Cages > Split Cages**.



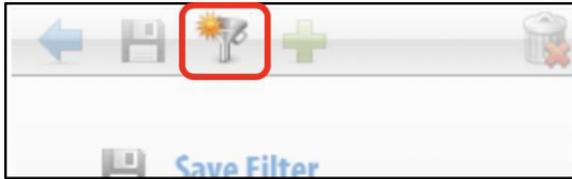
Step 2: Filter for the Cage ID of the originating cage(s).

How To Create a Filter:

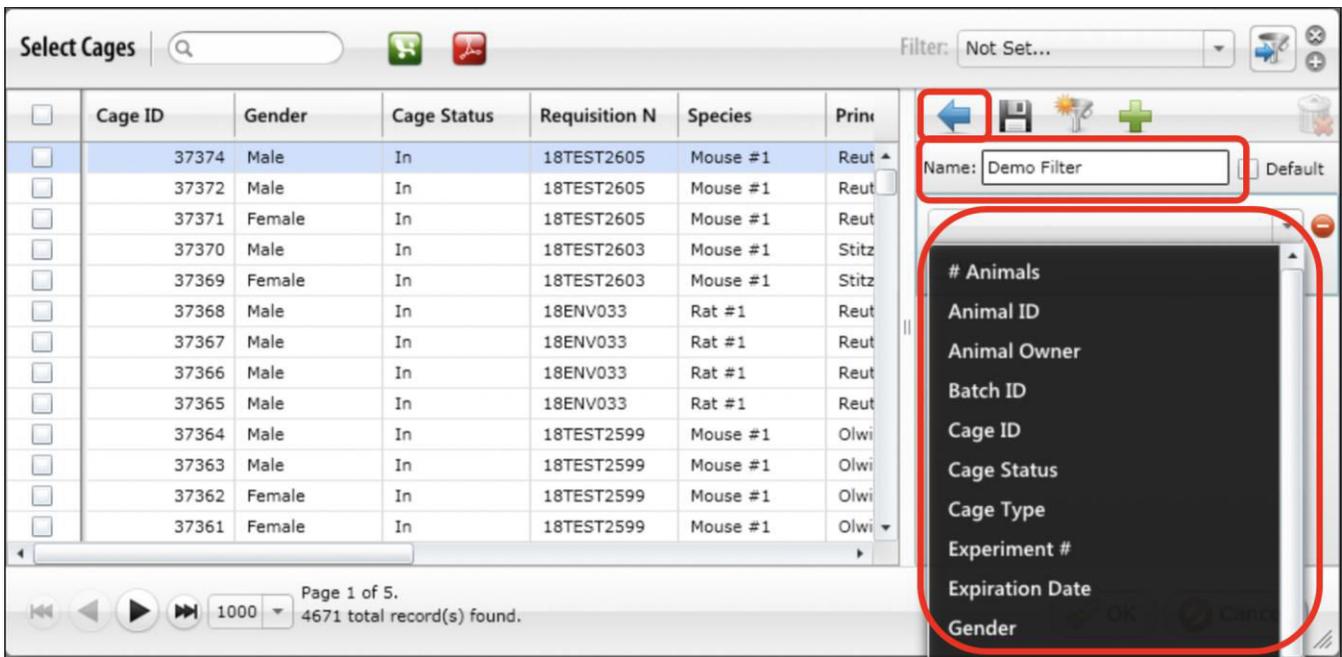
- Click  the **Filter** button in the top right corner of the screen to open the *Filter Panel*.



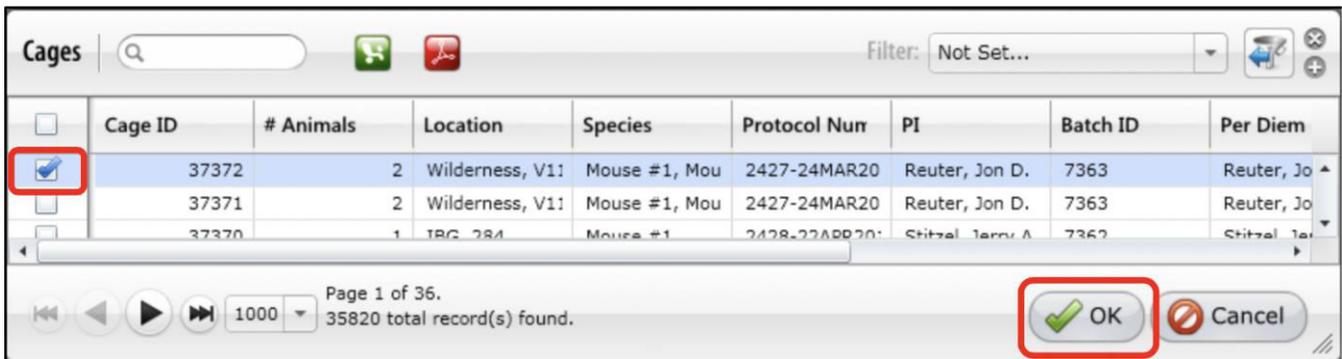
- In the *Filter Panel*, click  the **Create New Filter** button.



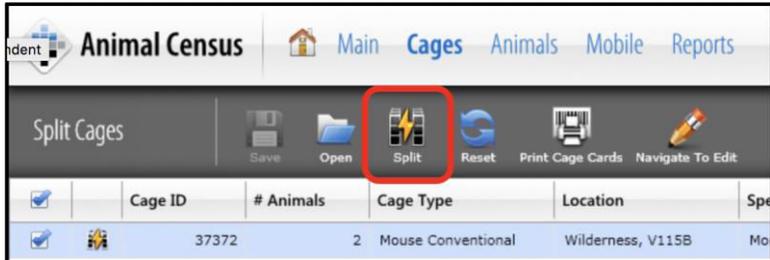
- Name the Filter
- Select the Filter ID from the dropdown.
- Set all Filter criteria to meet your needs.
- Enter the Cage ID number. Then click  the **Apply Filter to Grid** button.



Step 3: In the *Cages* window, select the desired **Cage ID**. Click **OK**.



Step 4: On the *Split Pages* screen, select the Cage ID. Click the **Split Icon** in the menu bar along the top of the screen.



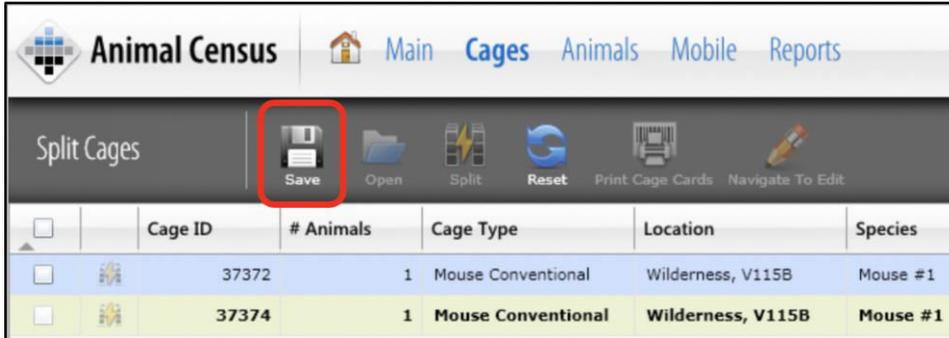
Step 5: Adjust the number of cages needed and enter an explanation in the comments field.

Step 6: Click **Split**.

Step 7: Click **OK**.



Step 8: Click **Save**. – The screen will refresh. Select the cages that need to be printed (usually the originating cages do not need to be reprinted).



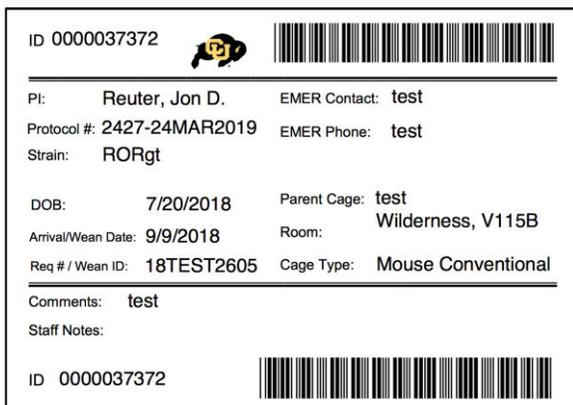
Step 9: Click **Print Cage Cards**.



Step 10: In the *Print Cage Cards* window, click **Generate Cage Card**.



Step 11: Print Cage Cards.



5. Special Use Cards

Also known as *Manual Cage Cards*, use this template to replace damaged/lost cage cards or update information.

Replace Lost/Damaged Cards

Cages are created manually on rare occasions for purposes other than new animal arrivals, weans, and cage splits. For example, to replace a cage card that was lost or damaged rendering the barcode unscannable.

Step 1: Open *Animal Census*. Under *Cages* select **Create Cages Manually**.



Step 2: Enter Cage Information to: create cages, select the cages to print, create and print cage cards. – Use the *Special Use Cage Card Template* to populate the emergency contact information. When the information is complete, click **Create Cages**.

Create Cages Manually

ENTER CAGE INFORMATION

Protocol And Species: 2605-2605-2605 (Amphibians #1)

Pain Category: USDA B

Strain/Stock/Breed: Bullfrog, American (Lithobates catesb)

Cage Creation Date: 9/10/18

Manual Cage Received Date: 9/10/18

Location: OAR Facilities

Vendor: Vendor...

Cage Type: Frog, Bullfrog tub

Per Diem Staff Account*: Weil, Michael – TEST1234

Animal Owner: Weil, Michael

Males / Cage: 3

Male Cages: 3

Females / Cage: 3

Female Cages: 3

Total Cages: 6

Deduct from Protocol:

Create Cages Cancel

The *Received* date indicates when the cage will be activated in the system and incurring per diem.

Adjust the number per cage to arrive at the total number of cage cards needing replacement.

Make sure this box is **UNCHECKED** because this process is only for **RE**printing cage cards, the animals are not new and have already been deducted from the protocol.

Step 3: On the next screen, click **Create**.

Animal Census | Main | **Cages** | Animals | Mobile | Reports

Create Manual Cages | **Create** | Reset | Edit | Animal IDs | Split | Print Cage Cards

Animal and Cage Information
 Females 5 Males 0 Total Animals: 5 Male Cages: 0 Female Cages: 1 Total Cages: 1

	Cage ID	Cage Stat	Gender	# of An	Cage Type	Protocol	Location	Per Diem Staff Account	Animal Owne	Species	Strain/Stock/	Manual Ct
<input checked="" type="checkbox"/>	37385	New	Female	5	Mouse Conventional	2427-24MAR2019 (Mous	V107	Reuter, Jon D. - 12800049	Mufford, Torii T.	Mouse #1	ICR	9/19/2018

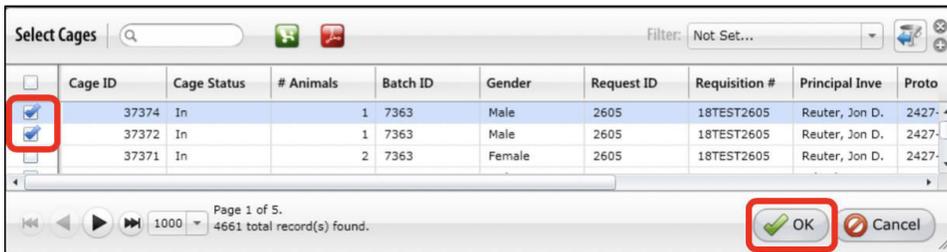
Step 4: Select the cages and make sure *Deduct from Protocol* is **UN**checked. Then click **Activate Cages**.

Edit Emergency Contact Information

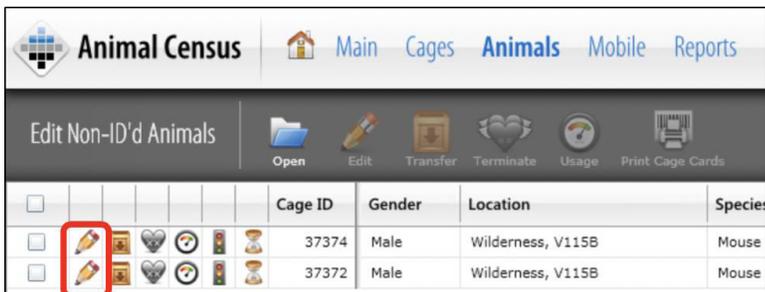
Step 1: Navigate to **Animal Census > Animals > Edit Non-ID'd Animals**.



Step 2: Select the desired **Cage ID** numbers and click **OK**. – The screen will refresh to the *Edit Non-ID'd Animals* window.

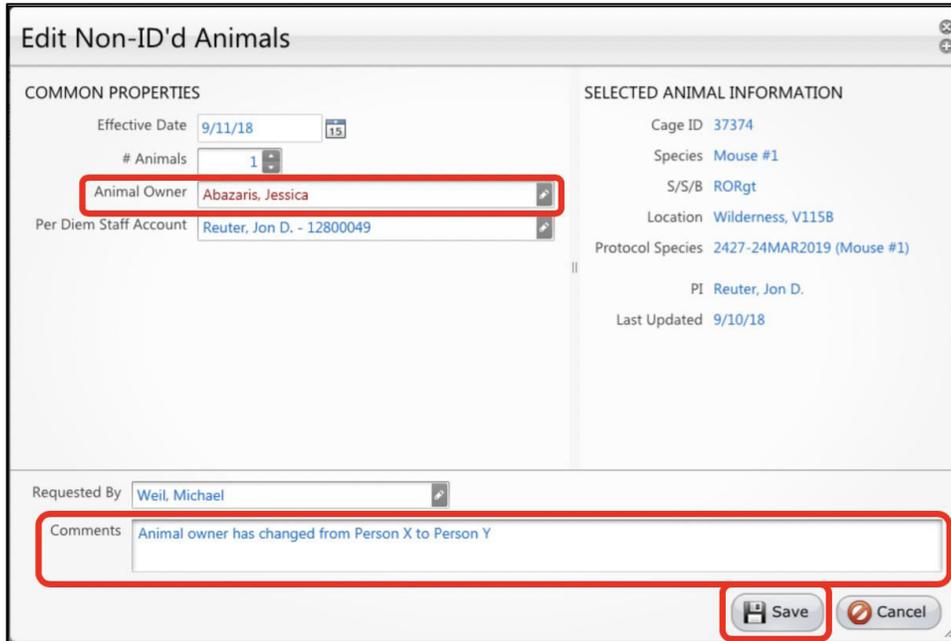


Step 3: Click the pencil/edit icon.



Step 4: Update the **Animal Owner** and denote the change in the **Comments** box.

- The contact name and phone number will appear on the cage card as the Emergency Contact.



Edit Non-ID'd Animals

COMMON PROPERTIES

Effective Date: 9/11/18

Animals: 1

Animal Owner: Abazaris, Jessica

Per Diem Staff Account: Reuter, Jon D. - 12800049

SELECTED ANIMAL INFORMATION

Cage ID: 37374

Species: Mouse #1

S/S/B: RORgt

Location: Wilderness, V115B

Protocol Species: 2427-24MAR2019 (Mouse #1)

PI: Reuter, Jon D.

Last Updated: 9/10/18

Requested By: Weil, Michael

Comments: Animal owner has changed from Person X to Person Y

Save Cancel

Step 5: Click **Save**.

Step 6: When printing, select the **Special Use Cage Card** template.

6. Mobile Animal Census

Perform Census Using Scanner

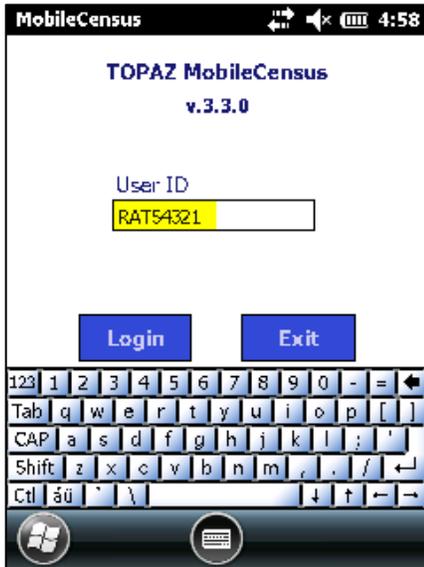
Step 1: Click the **Windows Icon** to open the **Start menu**.



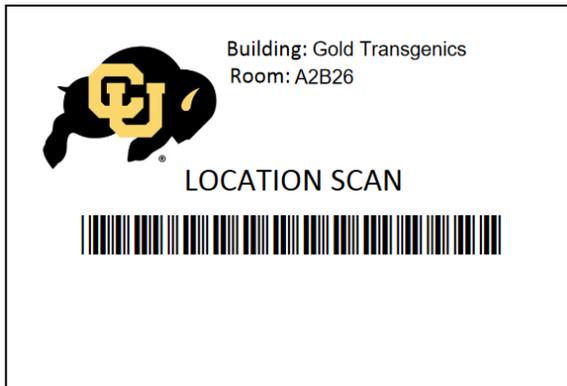
Step 2: Click on **MobileCensus**.



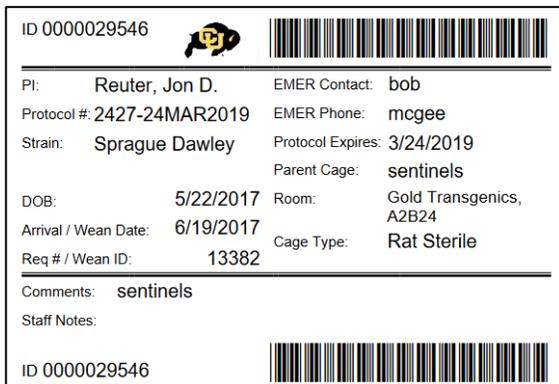
Step 3: Enter your CU IdentiKey Login.



Step 4: Scan the Location Card first (posted outside the room).



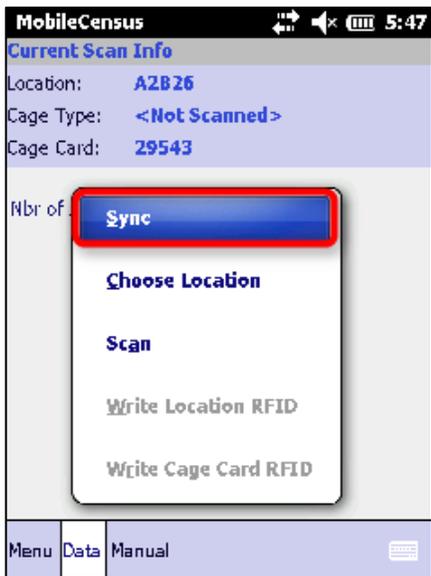
Step 5: Then scan a cage in the room.



Step 6: For each cage, the scanner will prompt you to enter the number of animals in the cage. In most cases, do not adjust the number, simply click **Save** and move on to the next cage. (*Under special circumstances, it might be helpful to update the number – e.g. an upcoming protocol transfer.*)



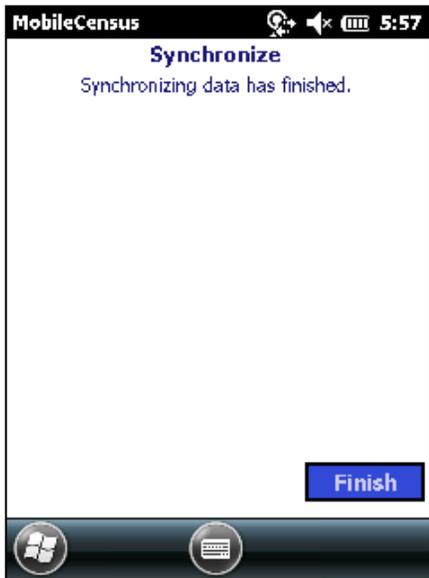
Step 7: When you have finished scanning all the cages in all the rooms, upload the data to the server. Click **Data > Sync**.



Step 8: Enter your **IdentiKey** password, then click **Synchronize**.



Step 9: Click **Finish**.

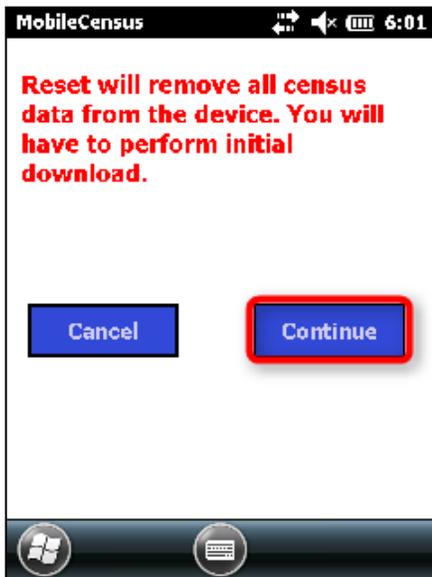


Reset Scanner Database

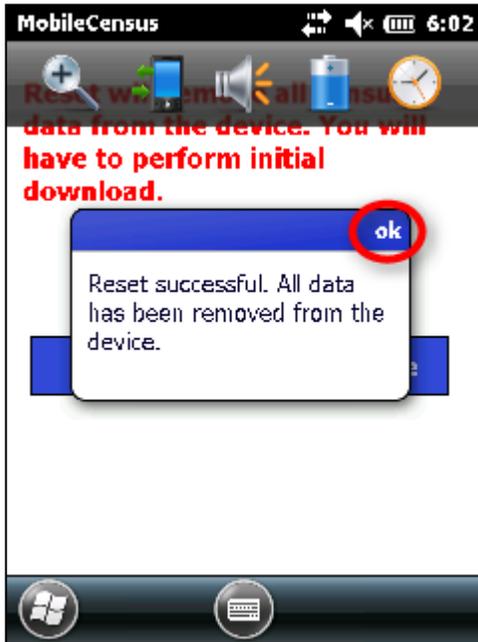
Step 1: Open the *Menu*, select **Reset**.



Step 2: Make sure the previous scans have been synchronized to the server before proceeding. Select **Continue**.



Step 3: Click **OK**.

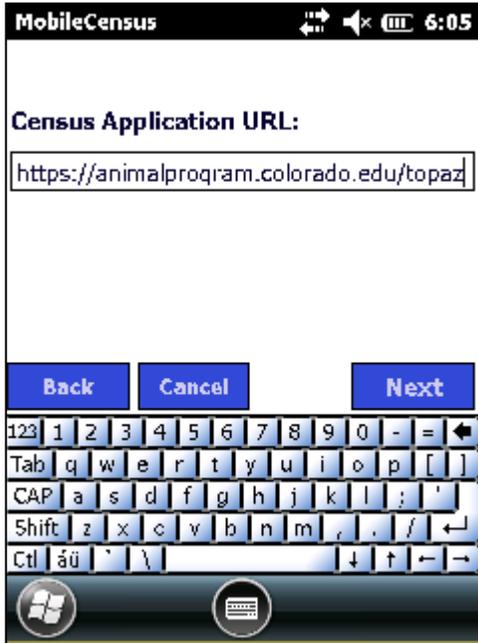


Step 4: The next time you open MobileCensus, you will be prompted to download our data. Click **Next**.

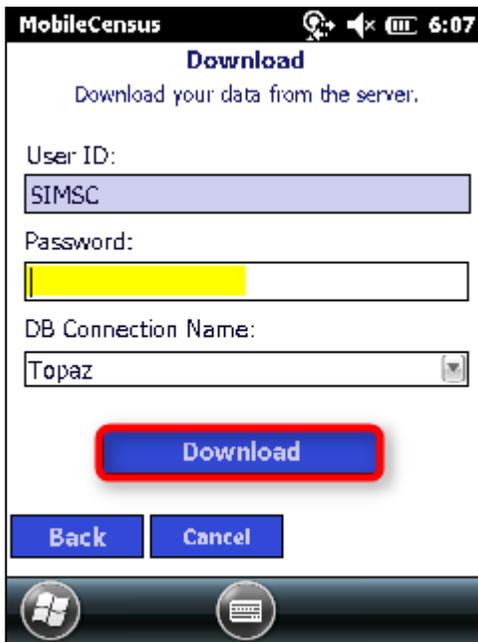


Step 5: Enter the following URL: <https://animalprogram.colorado.edu/topazelements>

- Make sure there is no space at the end of "...elements" or it will not sync correctly.



Step 6: Enter your **IdentiKey** password and select **TOPAZ** from *DB Connection Name* drop-down. Click **Download**.



Step 7: Click **Finish** on the *Synchronize* screen.

Turn The Sound ON/OFF On The Scanners

Step 1: Open the **Start** menu.



Step 2: Open **Settings**.



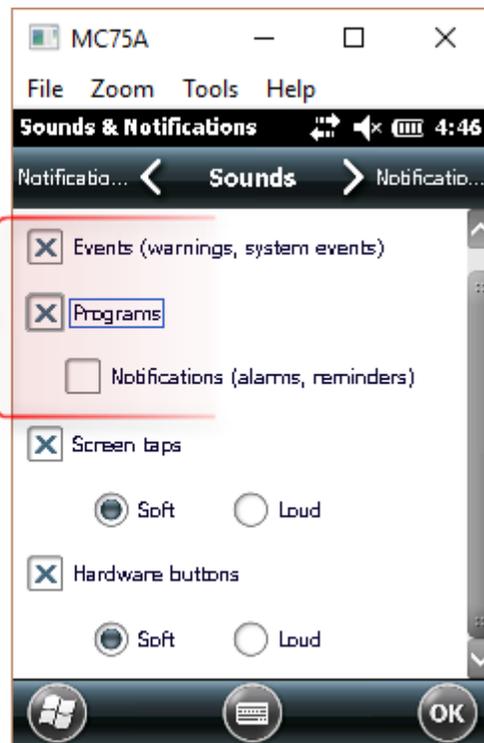
Step 3: Open Sounds & Notifications.



Step 4: Open the Sound menu.

- If your screen does not match the image below, you may be in the *Notifications* menu. Use < and > buttons in the navigation bar at the top of the screen to toggle between **Notifications** and **Sounds**.
- Check both the **Events** and **Programs** boxes to enable sounds in Topaz Mobile Census.

Check these two boxes to enable "beeps"



7. Protocol FAQs

Full Protocols

Protocols created in Topaz since 2015 use the full **Animal Use Protocol** form and are identifiable by the Protocol # starting with 2000.

- **Topaz Full AUPs** have eleven sections:

+ 1 Protocol Details
+ 2 Personnel
+ 3 Species
+ 4 Animal Use
+ 5 Animal: Number Justification, Sources, & Locations
+ 6 Justification of Animal Use
+ 7 Pain and Distress
+ 8 Animal Care
+ 9 Animal and Personnel Safety
+ 10 Principal Investigator Certification
+ 11 Office Use Only

- **Amendments, Renewals, Annual Reviews** will have an additional section according to its type:

- 1 Amendment
Instructions and Guidance on Amendments
List the proposed changes to this protocol
Clinical illness, pain, distress, or other health issues
Other concerns
Potentially adverse events
+ 2 Protocol Details
+ 3 Personnel
+ 4 Species
+ 5 Animal Use
+ 6 Animal: Number Justification, Sources, & Locations
+ 7 Justification of Animal Use
+ 8 Pain and Distress
+ 9 Animal Care
+ 10 Animal and Personnel Safety
+ 11 Principal Investigator Certification
+ 12 Office Use Only

- 1 Renewal
Protocol status
+ 2 Protocol Details
+ 3 Personnel
+ 4 Species
+ 5 Animal Use
+ 6 Animal: Number Justification, Sources, & Locations
+ 7 Justification of Animal Use
+ 8 Pain and Distress
+ 9 Animal Care
+ 10 Animal and Personnel Safety
+ 11 Principal Investigator Certification
+ 12 Office Use Only

- 1 Annual Review Questions
Protocol status
Problems/Adverse Effects
Changes made to this protocol in the past year
Permits or research conducted at another institution
Animals
Additional Information
+ 2 Protocol Details
+ 3 Personnel
+ 4 Species
+ 5 Animal Use
+ 6 Animal: Number Justification, Sources, & Locations
+ 7 Justification of Animal Use
+ 8 Pain and Distress
+ 9 Animal Care
+ 10 Animal and Personnel Safety
+ 11 Principal Investigator Certification
+ 12 Office Use Only

The following information is available on the **full AUP**, under the *Office Use Only* section.

USDA Pain Category 🔍

Select all that apply

- USDA Pain Category B
- USDA Pain Category C
- USDA Pain Category D
- USDA Pain Category E

Protocol Details 🔍

Select all that apply

- Behavioral Tests
- Breeding Conducted
- Breeding Conducted - Triad/Harem (a breeding strategy that exceeds the recommended floor space)
- Classroom Protocol
- Collaboration with another institution
- Conditionally accepted methods of Euthanasia: 1) Decap without anesthesia; 2) Cervical dislocation without anesthesia; 3) hypothermia for neonates; 4) Potassium chloride under anesthesia
- DEA controlled substance
- Departures from the Guide
- Enrichment Exemption
- Food/Fluid Restrictions
- Hazardous Agents
- IBC approval date (place date in "Notes on this protocol" box)
- Permits, Expiration Date
- PI-Provided Care
- Prolonged Restraint
- Protocol/Grant Congruence Complete
- Re-Use of Animals on Multiple IACUC Protocols
- Special Care Form Required
- Satellite Housing
- Shocks
- Singly-Housed Animals
- Standard Light Cycle Departures
- Survival Surgery
- Survival Surgeries - Multiple
- Toe Clipping
- USDA Covered Species
- Other Special Conditions

Procedure Location 🔍

Choose all that apply

- OAR procedure room
- Outside the OAR facilities
- Housing room

Special conditions/housing/husbandry 🔍

Select all that apply

- Non-standard diet
- Food on bottom of cage
- Standard bedding changes exceptions
- Standard equipment sanitation exceptions
- Wet bedding
- Single housing animals
- Enrichment Exemption
- Non-Standard Light Cycle (e.g. sleep deprivation or non-standard cycle)
- Other

Notes on this protocol: 🔍

Enter internal notes below

List of procedures 🔍

List all procedures here.

If the *AAALAC* and *Office Use* sections are blank, where do I find animal care information in the protocol?

Animal Use

<input type="checkbox"/> 4 Animal Use
Abstract
Important reminder to those principal investigators who also have an IBC application
Experimental Agents
<input checked="" type="checkbox"/> Will anesthetics, analgesics, and/or paralytics be used on this protocol?
Are you using any non-pharmaceutical grade drugs and compounds in this protocol?
Will any procedures on this project involve recovery from anesthesia?
If anesthetic gases are going to be used, please describe how the gases will be scavenged.
Will surgery be conducted?
Breeding
Food or fluid restriction & prolonged physical restraint
Experimental Procedures Involving Animals
Euthanasia
Conditionally acceptable methods of euthanasia
Scientific Endpoints, exclusion criteria, and final disposition
Are you using a controlled substance for this protocol?

Pain and Distress

<input type="checkbox"/> 7 Pain and Distress
Note on Pain and Distress
Limiting Pain and Distress
Adverse Events
Managing pain and distress, and Humane Endpoints
<input checked="" type="checkbox"/> Does this protocol involve procedures USDA Pain Category D or E?
Does this study include death as an endpoint due to procedures?
<input checked="" type="checkbox"/> Do you have pain category E procedures in this protocol?

Animal Care

<input type="checkbox"/> 8 Animal Care
Personnel responsible for daily care
Special Care
Satellite facilities
Environmental/structural provisions
Single housing
Pathogen tests
<input checked="" type="checkbox"/> Removal of animals from the vivarium/animal facility



Safety

<input type="checkbox"/> 9 Animal and Personnel Safety
Hazardous Material and Safety
<input type="checkbox"/> Chemical, biological, or radiological materials
Safe handling and disposal of contaminated animals and material associated with this study
<input type="checkbox"/> Additional Safety consideration
<input type="checkbox"/> Additional Safety and Regulatory Reviews