Exhibit L—Project Selection and Data Export/Import Instructions (NOFA #002)

Section 1 - Introduction

Please read the following instructions on how to complete your Broadband Grants Application. The Application requires the use of data available through the Iowa Broadband Targeted Services Areas map, available at: https://ocio.iowa.gov/broadband-availability-map-version-2 or https://arcg.is/10qe0D

Applicants must acquire the appropriate underlying data related to and a visual representation of their Projects following these instructions. Portions of that data must then be copied into the **"TSA Input"** tab within the **"Broadband Grants Core Application**," which will in turn populate, in part, the **"Broadband Grants Program Project Worksheet**,**" Exhibit B**. Applicants must then fill in the remaining fields within **Exhibit B**.

First, you will need to select the Targeted Service Areas (census blocks) forming the basis of your Project. There are several ways to do this. Pick the one that is most convenient for you using one of the methods described in the section Determine Project Blocks Using the TSA Selection Tool on page 2.

Second, you will need to Export the Project Area data from the blocks you selected.. *See* Export Project Area Data on page 3.

Finally, you will need to copy the underlying data into the **"TSA Input"** tab within the **"Broadband Grants Core Application**," which will in turn populate, in part, the **"Broadband Grants Program Project Worksheet**,**" Exhibit B**. *See* Copying Data to Broadband Grants Core Application on page 4.
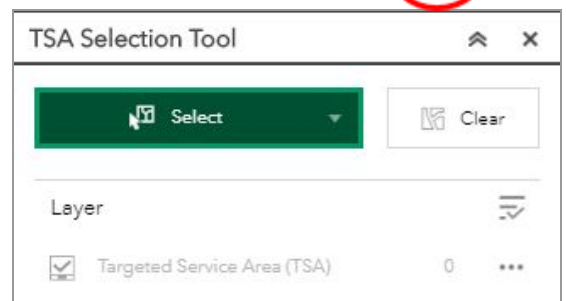
Section 2 - Determine Project Blocks Using the TSA Selection Tool

You can select the Targeted Service Areas (census blocks) forming the basis of your Project using the TSA Selection Tool available on the Iowa Broadband Targeted Services Areas map published at https://ocio.iowa.gov/broadband-availability-map-version-2. Zoom into your project area or area of interest so that the Iowa TSA Blocks are visible, usually about the scale of a county or two.
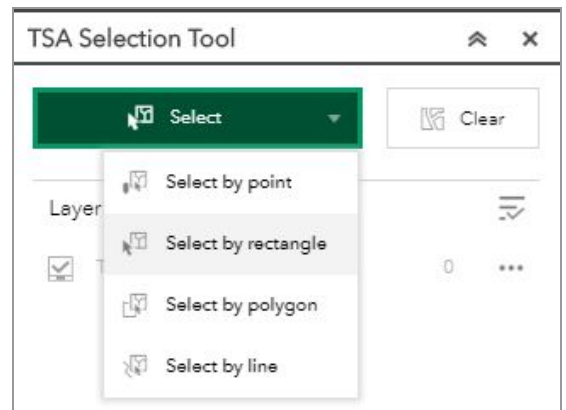
1. On the menu bar of the Iowa Broadband Targeted Services Areas map, click the **TSA Selection Tool**—circled in the image at the right. **NOTE: Additional/different icons may appear in the toolbar than the ones shown here, but you should always find the one circled.**

2. After the **TSA Selection Tool** opens click on the **make sure the Targeted Service Area (TSA) layer is checked** as in the image to the right. If you are not zoomed in far enough the Targeted Service Area (TSA) layer will appear greyed out. If the TSA layer is greyed out click the + tool on map navigation tools to zoom in a little farther.

3. **Selection Mode**. Choose a selection mode to select all the TSA blocks that cover the extent of your project area. There are 4 selection tools available. The Select By Point or Select By Polygon options seem to work best for selecting large areas. Try each on a small area to get an idea of how they work.

   a. **Select By Point** - a single block can be selected at a time. Use Shift + Mouse click after your first block is selected to add to the collection of blocks. Your screen may recenter to include all selected blocks. You can also click the ellipsis icon (...) then select **Zoom To** to cause the map to recenter to show all of the selected blocks. A block can be removed by clicking CTRL + Click (⌘ + Click on OSX).

   b. **Select By Rectangle** - draw a box around the blocks that should be selected in your project area. Shift + Click to add additional areas, and CTRL + Click (⌘ + Click on OSX) to remove areas.

   c. **Select By Polygon** - This selects all blocks that within or touch the polygon drawn on the map. Start drawing a polygon by clicking on the first block in your project area, click near but within your project area boundaries until the polygon contains your project area. Double-click to complete the selection of all blocks that are within or touch that polygon. Your project area

polygon doesn't need to be exact since you are only selecting TSA blocks that will be served in the project area.

d. **Select By Line** - Draw a straight or irregular line by placing your first mouse click inside a TSA block that is part of your project area, click to include another block, double-click to start the selection process.
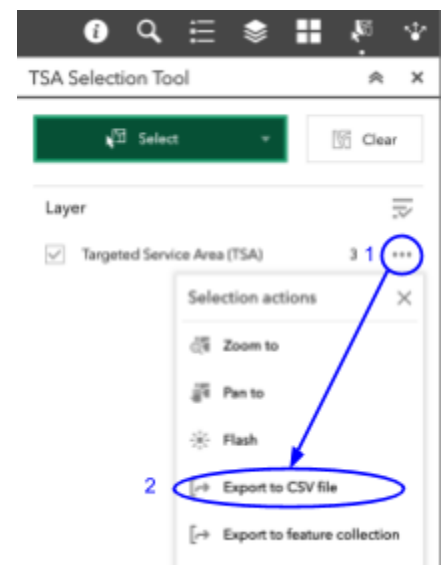
4. Next, follow the instructions in the Export Project Data section of this document (below).

Section 3 - Export Project Data

1. Regardless of which selection option you used to select your Project area above, you will now **Export** the underlying census block data. To do this:

    a. **Export Selected Blocks to a CSV file:**

        i. In the **TSA Selection Tool Tab**, click the **Selection Actions** icon (**...**) to display Export options. This is labeled #1 in the image to the right.

        ii. Choose **Export to CSV file** to export the selected Targeted Service Areas (census blocks) IDs and corresponding data forming the basis of your Project. This is labeled #2 in the image to the right.

        iii. Save your file using this naming convention: *features.csv*.

        iv. Click the [×] in the top right corner of the the tool menu to close the **TSA Selection Tool**.

Section 4 - Copying Data to Broadband Grants Core Application

1. **Finally,** you will need to copy the underlying data into the **"TSA Input"** tab within the **"Broadband Grants Core Application**,**"** which will in turn populate the **"Broadband Grants Program Project Worksheet**,**" Exhibit B**. To do so:

    a. Open the .csv file for your project you generated through TSA Selection Tool ("features.csv.").

    b. Select / highlight all the data (*excluding* the column headers) beneath **"objectid"** through **"geom_Length"**

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	objectid	blockid	areasqmil	househol	populatio	businesse	schools	Effective	county	tsa	source	geom__Ar	geom__Length	
2	24997	1.9E+14	0.01	2	6	0	0	20171231	Calhoun	yes	FCC477 DE	24,051.12	643.33	
3	25245	1.9E+14	0.38	1	1	0	0	20171231	Calhoun	yes	FCC477 DE	########	5,997.38	
4	25254	1.9E+14	0.36	1	2	0	0	20171231	Calhoun	yes	FCC477 DE	########	5,400.63	
5	25260	1.9E+14	0.01	4	10	1	0	20171231	Calhoun	yes	FCC477 DE	43,189.57	1,282.07	
6	25266	1.9E+14	0	0	0	1	0	20171231	Calhoun	yes	FCC477 DE	15,906.84	538.37	
7	25268	1.9E+14	0.01	1	2	0	0	20171231	Calhoun	yes	FCC477 DE	60,690.22	1,196.69	
8	25269	1.9E+14	0.01	2	0	0	0	20171231	Calhoun	yes	FCC477 DE	23,964.35	619.48	
9	25272	1.9E+14	0	2	2	0	0	20171231	Calhoun	yes	FCC477 DE	22,813.72	605.26	
10	25273	1.9E+14	0	6	6	0	0	20171231	Calhoun	yes	FCC477 DE	23,562.45	613.35	
11	25274	1.9E+14	0.01	0	0	0	0	20171231	Calhoun	yes	FCC477 DE	51,871.46	1,211.02	
12	25275	1.9E+14	0.55	0	0	0	0	20171231	Calhoun	yes	FCC477 DE	########	7,363.76	
13	25325	1.9E+14	0.2	0	0	0	0	20171231	Calhoun	yes	FCC477 DE	########	4,240.06	
14	25329	1.9E+14	0.02	0	0	0	0	20171231	Calhoun	yes	FCC477 DE	99,777.08	1,512.93	
15	26280	1.9E+14	0.01	3	8	0	0	20171231	Calhoun	yes	FCC477 DE	37,459.70	811.01	
16	26353	1.9E+14	0.04	0	0	0	0	20171231	Calhoun	yes	FCC477 DE	########	1,855.08	
17	26443	1.9E+14	0.11	1	2	0	0	20171231	Calhoun	yes	FCC477 DE	########	4,076.15	

    c.   Right-click to open dialogue box. Click **"copy"** to copy this data.

    d.   Open the **"Broadband Grants Core Application"** worksheet**.** From the Menu tab, click on the Hot Button **"Go to Targeted Service Area/Project Input Tab"**.

    e.   The "**TSA Input"** tab will open. Click on the first available row in Column A (**"objectid"**).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	Paste Your TSA Data Below in Row 3				Return To Main Input Sheet											
2	objectid	blockid		areasqmiles	househol	populatic	businesse	schools	Effective	county	tsa	source	geom__A	geom__Length		
3																
4																
5																
6																
7																
8																
9																
10																
11																
12																
13																
14																
15																
16																
17																

    f.   Right-click on cell A3 to open the dialogue box. Click **"Paste"** to paste the data to the sheet.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N
1	Paste Your TSA Data Below in Row 3				Return To Main Input Sheet									
2	objectid	blockid	areasqmiles	househol	populatic	businesse	schools	Effective	county	tsa	source	geom__A	geom__Length	
3	24997	1.9026E+14	0.01	2	6	0	0	20171231	Calhoun	yes	FCC477 DI	########	643.33	
4	25245	1.9026E+14	0.38	1	1	0	0	20171231	Calhoun	yes	FCC477 DI	########	5,997.38	
5	25254	1.9026E+14	0.36	1	2	0	0	20171231	Calhoun	yes	FCC477 DI	########	5,400.63	
6	25260	1.9026E+14	0.01	4	10	1	0	20171231	Calhoun	yes	FCC477 DI	########	1,282.07	
7	25266	1.9026E+14	0	0	0	1	0	20171231	Calhoun	yes	FCC477 DI	########	538.37	
8	25268	1.9026E+14	0.01	1	2	0	0	20171231	Calhoun	yes	FCC477 DI	########	1,196.69	
9	25269	1.9026E+14	0.01	2	0	0	0	20171231	Calhoun	yes	FCC477 DI	########	619.48	
10	25272	1.9026E+14	0	2	2	0	0	20171231	Calhoun	yes	FCC477 DI	########	605.26	
11	25273	1.9026E+14	0	6	6	0	0	20171231	Calhoun	yes	FCC477 DI	########	613.35	
12	25274	1.9026E+14	0.01	0	0	0	0	20171231	Calhoun	yes	FCC477 DI	########	1,211.02	
13	25275	1.9026E+14	0.55	0	0	0	0	20171231	Calhoun	yes	FCC477 DI	########	7,363.76	
14	25325	1.9026E+14	0.2	0	0	0	0	20171231	Calhoun	yes	FCC477 DI	########	4,240.06	
15	25329	1.9026E+14	0.02	0	0	0	0	20171231	Calhoun	yes	FCC477 DI	########	1,512.93	
16	26280	1.9026E+14	0.01	3	8	0	0	20171231	Calhoun	yes	FCC477 DI	########	811.01	
17	26353	1.9026E+14	0.04	0	0	0	0	20171231	Calhoun	yes	FCC477 DI	########	1,855.08	
18	26443	1.9026E+14	0.11	1	2	0	0	20171231	Calhoun	yes	FCC477 DI	########	4,076.15	
19														

g. Return to the **"Menu"** tab and click on Hot Button **"Refresh Exhibit B with TSA Input."**

h. If you are not redirected to the Exhibit B tab automatically, click on Hot Button **"Go to Exhibit B – Project Worksheet Tab."** All *eligible Project TSA's* should be displayed. If the Project selected included non-TSAs from the Broadband Map (*i.e.*, non-shaded Census Blocks = non-TSAs), those Census Blocks will be automatically removed from **Exhibit B** within the Broadband Grant Core Application. Only TSAs may be submitted as part of a Grant Application.

   i. The following Columns should contain your project data:

   1. **"Census Block #"**

   2. **"County"**

   3. **"Sq. Miles"**

   4. **"Total Number of HSBs (i.e., Broadband Units) in Project Area"** (HSBs = Homes, Schools, and Businesses)

   5. **"Total Number of HSBs (i.e., Broadband Units) New Service Will be Available To."**

      a. **NOTE:** The Project Worksheet will assume you intend to service 100% of the HSBs in every TSA once the project is complete. **If you intend to serve fewer HSBs in any or all TSAs, make the appropriate**

6.   **"Proposed Advertised Speed in Project Area Upon Completion"**

      a.   Use the drop down menu to select the new download and upload speeds available upon completion of the project.

ii.   In addition, follow the instructions at the top of Exhibit B and check one or more **"Delivery Platform"** that apply and define the "**Prospective Product Attributes"** for your project.

i.   When complete, Exhibit B should look similar to the screenshot provided on Page 7.

Exhibit B — Broadband Grants Program Project Worksheet

Applicant Name: MB Networks

Applicants should identify all Delivery Platforms forming the basis of their Project by selecting all Delivery Platform types that are projected to be deployed as part of the Project. Consistent with the definition of Facilitates, Applicants must identify the upload/download speeds on an individual census block basis that their Project will Facilitate in the "Facilitated Speeds" column below; this may be based on the most favorable product offering that will be made available within each of the census blocks forming the basis of a Project and that will be made available within a commercially reasonable time and at a commercially reasonable price. In identifying Prospective Product Attributes, Applicants may use the most favorable product offering that will be made available within a majority of the census blocks forming the basis of their Project and that will be made available within a commercially reasonable time and at a commercially reasonable price within the Project area upon request by a consumer as a result of the Project. Refer to NOFA #002 Section 3.1.6 for more information on Prospective Product Attributes.

Delivery Platform: (Check and/or Populate Other)	
- FTTH	☐ Check
- DSL	☐ Check
- Cable Modem	☑ Check
- Wireless Spectrum	☐ Check
- Fixed Wireless	☐ Check
- Other	
Infrastructure Type	Required

Prospective Product Attributes: (Populate Responses)		
- Availability	99.00%	percent
- Latency	3.50	milliseconds
- Hop Count	6	hops
- Performance Credits	☐ Yes	☑ No
- Data Cap	☑ Yes	☐ No
- Symmetry	☐ Yes	☑ No

Total Units To Be Served	48
% of Baseline To Be Served	98%
Units Served Per Square Mile	3.8

Target Service Area			Total Number of HSB's (i.e., Broadband Units) in Project Area				Total Number of HSB's (i.e., Broadband Units) New Service Will Be Available To				Facilitated Speeds in Project Area Upon Project Completion	
Census Block #	County	Sq. Miles	H	S	B	Total	H	S	B	Total	Down (Mbps)	Up (Mbps)
21	2	12.62	42	0	7	49	41	0	7	48	TOTAL	
190130030023040	Black Hawk	0.99	2	0	1	3	2	0	1	3	50 - 99.99	25 - 49.99
190130030023041	Black Hawk	1	5	0	0	5	5	0	0	5	50 - 99.99	25 - 49.99
190130030023063	Black Hawk	0.86	3	0	0	3	2	0	0	2	50 - 99.99	25 - 49.99
190130030023062	Black Hawk	0.12	1	0	0	1	1	0	0	1	50 - 99.99	25 - 49.99
190130030023101	Black Hawk	1.04	3	0	0	3	3	0	0	3	50 - 99.99	25 - 49.99
190130030023061	Black Hawk	0.98	7	0	1	8	7	0	1	8	50 - 99.99	25 - 49.99
190130030023098	Black Hawk	0.36	2	0	2	4	2	0	2	4	50 - 99.99	25 - 49.99
190130030023060	Black Hawk	0.85	1	0	1	2	1	0	1	2	50 - 99.99	25 - 49.99
190130030023050	Black Hawk	0.49	4	0	0	4	4	0	0	4	50 - 99.99	25 - 49.99
190130030023049	Black Hawk	0.49	2	0	0	2	2	0	0	2	50 - 99.99	25 - 49.99
190130030023051	Black Hawk	0.5	1	0	0	1	1	0	0	1	50 - 99.99	25 - 49.99
190130030023103	Black Hawk	0.12	0	0	0	0	0	0	0	0	50 - 99.99	25 - 49.99
190130030023052	Black Hawk	0.49	1	0	0	1	1	0	0	1	50 - 99.99	25 - 49.99
190130030023102	Black Hawk	0.99	3	0	0	3	3	0	0	3	50 - 99.99	25 - 49.99
190130030023064	Black Hawk	0.68	1	0	0	1	1	0	0	1	50 - 99.99	25 - 49.99
190130030023065	Black Hawk	1.05	2	0	0	2	2	0	0	2	50 - 99.99	25 - 49.99
190130030023104	Black Hawk	0.01	0	0	0	0	0	0	0	0	50 - 99.99	25 - 49.99
191712902001025	Tama	0.2	0	0	0	0	0	0	0	0	50 - 99.99	25 - 49.99
191712902001029	Tama	0.63	3	0	2	5	3	0	2	5	50 - 99.99	25 - 49.99
191712902001002	Tama	0.51	0	0	0	0	0	0	0	0	50 - 99.99	25 - 49.99
191712902001001	Tama	0.26	1	0	0	1	1	0	0	1	50 - 99.99	25 - 49.99
END OF DATA												

If you have questions about how to complete this process, or any other process set forth in these instructions, contact ociogrants@iowa.gov for further information.