

Figure 5.4. Calculation of the terrestrial ecosystem thresholds and summary statistics

This analysis adds several attributes to the dataset to describe the nearest neighbor between vegetation types and developed areas. The table represents the primary fields used for analysis.

First added several items to the ADID attribute table

CODE	NN_ID	NNDistance	NR_ID	NRDistance	NNDist_ok	NRDist_ok	Size_ok
1	94	23.76288994	4	0	1	0	1
3	6	364.4431236	58	6421.915281	1	1	0
4	10	80.7350933	58	5304.960335	1	1	1

Used Visual Basic for to find the nearest neighbor. This created an intermediate dataset that the lines between the nearest polygon

Selected:

- All features with a nearest neighbor distance of less than 1000 feet and calc'd
- Reselected developed areas and water and calc'd NNDist_ok

Selected:

- Hammocks, Pinelands, Ridge/Hammocks--if the NRDistance >= 50, then calc'd
- Selected all other vegetation types--if the NRDistance > 25, then calc'd
- Exotics, Developed, Grasslands, Water and calc'd NRDist_ok

Selected:

- Exotics, Grasslands, Dunes--if area was greater than 1.0 acres, calc'd
- Water, Developed--calc'd Size_ok =
- All other vegetation types--if area was greater than 5.0 acres, calc'd

Used Visual Basic for Applications to find the closest area to each vegetation polygon. This process intermediate dataset that has the lines between the developed area for each vegetation

These fields, along with others, were to calculate statistics and values. Visual Basic Applications was to display the in tabular formats.

Summary Statistics for Terrestrial Habitats for the Focus Area Under Current Conditions(Threshold Analysis)

Scroll down and select Waste Water Unit: BQ/MED TORCH KEY Unit: acres

Habitat Type	Threshold	Mean Size	Total No. of Patches	No. of Patches below	% Patches below	Waste Water Unit
Mangrove	5	4.8	103	32	31.17	BQ/MED TORCH KEY
Scrub Mangrove	5	7.49	74	53	71.62	BQ/MED TORCH KEY
Saltmarsh	5	4.83	45	30	66.67	BQ/MED TORCH KEY
Buttonwoods	5	16.46	24	10	41.67	BQ/MED TORCH KEY
Hammocks	5	21.52	25	16	64	BQ/MED TORCH KEY
Pinelands	5	0	0	0	0	BQ/MED TORCH KEY
Exotics	1	0	0	0	0	BQ/MED TORCH KEY
Freshwater Hardwoods	5	8.45	18	15	83.33	BQ/MED TORCH KEY
Freshwater Pine	5	0	0	0	0	BQ/MED TORCH KEY
Freshwater Marsh	5	0.12	1	1	100	BQ/MED TORCH KEY
Grasslands	1	0	0	0	0	BQ/MED TORCH KEY
Ridge/Hammock	5	0	0	0	0	BQ/MED TORCH KEY
Dune	1	0	0	0	0	BQ/MED TORCH KEY

Summary Statistics for Terrestrial Habitats for the Focus Area Under Current Conditions(Size Analysis)

Scroll down and select Waste Water Unit: BQ/MED TORCH KEY Unit for length: feet Unit for area: acres

Habitat Type	# of Polygons	Minimum Size	Maximum Size	Mean Size	Total Acres	WasteWaterUnit
Mangrove	103	0	247.41	4.8	494.4	BQ/MED TORCH KEY
Scrub Mangrove	74	0	62.54	7.49	554.18	BQ/MED TORCH KEY
Saltmarsh	45	0.04	28.7	4.83	217.54	BQ/MED TORCH KEY
Buttonwoods	24	0	53.05	16.46	395.14	BQ/MED TORCH KEY
Hammocks	25	0.42	171.71	21.52	537.97	BQ/MED TORCH KEY
Pinelands	0	0	0	0	0	BQ/MED TORCH KEY
Exotics	0	0	0	0	0	BQ/MED TORCH KEY
Freshwater Hardwoods	18	0.12	94.62	8.45	152.03	BQ/MED TORCH KEY
Freshwater Pine	0	0	0	0	0	BQ/MED TORCH KEY
Freshwater Marsh	1	0.12	0.12	0.12	0.12	BQ/MED TORCH KEY
Grasslands	0	0	0	0	0	BQ/MED TORCH KEY
Ridge/Hammock	0	0	0	0	0	BQ/MED TORCH KEY