

APPENDIX A. CURTAILMENT STRATEGY FOR OPTION 1 BY LOCATION AND DATE. Depicts the curtailment wind speeds in miles per hour (mph; meters per second (m/s)) described under Option 1 of the Land-based Wind Energy Avoidance Guidance for Tricolored Bat (*Perimyotis subflavus*) by state, part of the range (if applicable), date, and whether the project has summer risk¹ (highlighted in gray). Turbines should be feathered below the curtailment wind speeds starting 30 minutes before sunset to 30 minutes after sunrise when temperatures are above 40°F². If no curtailment is described during a time (e.g., N/A) no curtailment is required³. Projects may choose to operate at a more streamlined approach⁴, if project(s) want to reduce the number of curtailment threshold modifications implemented over a given year. Note, if project(s) and or the local Field Office has site-specific data that show that the active season is shorter than described in this table, that is acceptable. For example, a project sited away from known hibernacula in Missouri and has acoustic data that shows that bat activity drops off after October 31. This project does not need to curtail at 11.2 mph (5.0 m/s) from November 1 to 15 and this should be reflected in the project’s TAL.

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1-14	May 15- 31 ¹	Jun 1 - Jul 14 ¹	Jul 15 - 31	Aug 1 - Sept 30	Oct 1 – 31	Nov 1 - 15	Nov 16 - Dec 31
Alabama: Hibernating Range	N/A	11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Alabama: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
Arkansas	N/A	11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Colorado	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Connecticut	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	

¹ If the project does not have summer risk (i.e., did not detect or capture tricolored bats during a P/A survey), the project should feather turbines below the manufacturer’s cut-in speeds during this period (i.e., May 15 – July 14). If the project has summer risk, turbines should be feathered below the cut-in speeds provided in the table.

² Temperature should be measured at the nacelle.

³ A facility may operate at either the manufacturer’s cut-in speed or uncurtailed (i.e., turbine blades can rotate freely at any windspeed and are not feathered).

⁴ The streamlined approach would require projects to feather turbines below 11.2mph (5.0 m/s) from March 15 – July 14, 15.4 mph (6.9 m/s) from July 15 – September 30, and 5.0 m/s from October 1 – November 15. The specific timing of curtailment will be dependent on the project location (see below). If a project does not have summer risk, it can operate at manufacturers cut-in speeds from May 15 – July 14. Year-round active zones will need to use a curtailment speed of 11.2 mph (5.0 m/s) from November 16 – March 14.

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1-14	May 15- 31 ¹	Jun 1 - Jul 14 ¹	Jul 15 - 31	Aug 1 - Sept 30	Oct 1 – 31	Nov 1 - 15	Nov 16 - Dec 31
Delaware	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
District of Columbia	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Florida	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
Georgia: Hibernating Range	N/A	11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Georgia: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
Illinois	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Indiana	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Iowa	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Kansas	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Kentucky	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Louisiana: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
Maine	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1-14	May 15- 31 ¹	Jun 1 - Jul 14 ¹	Jul 15 - 31	Aug 1 - Sept 30	Oct 1 – 31	Nov 1 - 15	Nov 16 - Dec 31
Maryland	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Massachusetts	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Michigan (Outside Indiana Bat Range)	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Michigan (Within Indiana Bat Range)	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Minnesota	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Mississippi: Hibernating Range	N/A	11.2 mph (5.0 m/s)				11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Mississippi: Year- round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
Missouri	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Montana	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Nebraska	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
New Hampshire	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
New Jersey	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
New Mexico: Hibernating Range	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1-14	May 15- 31 ¹	Jun 1 - Jul 14 ¹	Jul 15 - 31	Aug 1 - Sept 30	Oct 1 – 31	Nov 1 - 15	Nov 16 - Dec 31
New Mexico: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
New York	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
North Carolina: Hibernating Range	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
North Carolina: Year-round Active Range (Zone 1)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
North Dakota	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Ohio	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Oklahoma	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Pennsylvania	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Rhode Island	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
South Carolina: Hibernating Range	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
South Carolina: Year-round Active Range (Zone 1)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
South Dakota (Black Hills)	N/A				11.2mph (5.0 m/s)	11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	N/A		

State	Jan 1 - Mar 14	Mar 15- 31	Apr 1 - 14	Apr 15 - 30	May 1-14	May 15- 31 ¹	Jun 1 - Jul 14 ¹	Jul 15 - 31	Aug 1 - Sept 30	Oct 1 – 31	Nov 1 - 15	Nov 16 - Dec 31
South Dakota (Plains)	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Tennessee	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Texas: Hibernating Range	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Texas: Year-round Active Range (Zone 1 and 2)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
Vermont	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Virginia: Hibernating Range	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Virginia: Year-round Active Range (Zone 1)	11.2 mph (5.0 m/s)					11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		
West Virginia	N/A		11.2 mph (5.0 m/s)			11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)		N/A
Wisconsin	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	
Wyoming (Black Hills)	N/A				11.2mph (5.0 m/s)	11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	N/A		
Wyoming (Plains)	N/A			11.2 mph (5.0 m/s)		11.2 mph (5.0 m/s)		13.4 mph (6.0 m/s)	15.4 mph (6.9 m/s)	11.2 mph (5.0 m/s)	N/A	