AGENDA

Board of Wildlife Resources
7870 Villa Park Drive
Henrico, Virginia 23228

May 21, 2026
9:00 am

Call to Order and Welcome –

1. Recognition of Employees and Others

2. Approval of the March 19, 2026, Board Meeting Minutes ***Final Action***

3. Public Comments – Non-Agenda Items

4. Committee Meeting Reports:

Wildlife and Boat Committee:

- Staff Recommendations for Sportfish Regulation Amendments ***Action***
- Staff Recommendations for Boating Regulation Amendments ***Action***
- Staff Recommendations for Nongame Regulation Amendments ***Action***
- Staff Recommendations for Wildlife Regulation Amendments ***Action***

Finance, Audit & Compliance Committee:

- FY 2027 Budget Proposal ***Final Action***
- Staff Recommendations for Increases in Certain Licenses and Fees ***Action***

Law Enforcement Committee:

Education, Planning, and Outreach Committee:

5. Election of Chair and Vice Chair for 2026 – 2027 ***Final Action***
6. Director's Report
7. Chairman's Report
8. Additional Business/Comments
9. Next Meeting Date: Thursday, August 20, 2026
10. Closed Session
11. Adjournment

Draft Board Meeting Minutes

Board of Wildlife Resources
7870 Villa Park Drive
Henrico, VA 23228

March 19, 2026
9:00 am

Present: Mr. George Terwilliger, **Chair**; Mr. Michael Formica, **Vice Chair**; **Board Members:** Mr. Lynwood Broaddus, Mr. Will Wampler, Mr. Jon Cooper, Mr. James Edmunds, Ms. Marlee Dance, Ms. Laura Walters, Mr. Woody Woodall, Mr. James Maclin; **Executive Director**: Mr. Ryan J. Brown; **Deputy Directors**: Ms. Becky Gwynn and Mr. Darin Moore; **Director's Working Group:** Dr. Mike Bednarski, Mr. George Braxton, Mr. Michael Lipford, Ms. Stacey Brown, Ms. Rebecca Lane, Ms. Shelby Crouch, Mr. Paul Kugelman, Colonel John Cobb

The Chair called the meeting to order at 9:00 am. The Chair welcomed everyone to the meeting. The Chair noted for the record that a quorum was present.

The Chair called on Mr. Edmunds to read the Mission Statement.

The Chair led the Pledge to the Flag.

Ms. Kelci Block, Assistant Attorney General attended the Board meeting.

Recognition of Employees and Others: The Chair called on Mr. Ryan Brown for recognitions.

Director Brown called on Ms. Kristin Mullins, Voluntary Coordinator, to recognize Mr. Jason Wilmoth as Volunteer of the Year Award for 2025.

Director Brown called on Mr. Alex McCrickard to recognize Mr. Stephen Miklandric for the Master Angler VI Award.

Director Brown called on Mr. Michael Lipford to recognize Mr. T. Moss to receive the Henry S. Mosby Award from the Virginia Chapter of the Wildlife Society. (Mr. Moss was virtually attending the board meeting).

Director Brown called on Mr. Michael Lipford to make a tribute in memory of the life and service of Mr. David Garst, a DWR employee who passed away recently. After his tribute he called for a moment of silence.

Approval of the January 22, 2026, Board Meeting Minutes:

The minutes of January 22, 2026, Board meeting minutes have been distributed and posted to website for review. The Chair called for a motion to approve the minutes. Mr. Formica made a motion to approve the January 22, 2026, Board Meeting minutes. It was seconded by Mr. Edmunds. Ayes: Terwilliger, Formica, Woodall, Edmunds, Cooper, Maclin, Walters, Wampler, Broaddus, Dance

Public Comments – Non-Agenda Items:

- Mr. Raymond Carter spoke regarding Funding and Outreach
- Mr. Gary Kimberlin spoke regarding hound hunting
- Mr. Chris Rush spoke regarding hound hunting
- Mr. Todd Grubbs spoke regarding hound hunting
- Mr. Judge Charlton spoke regarding hound hunting
- Mr. John Anderson regarding Smith Mountain Lake and Striper Club

Committee Reports:

Wildlife and Boat Committee:

The Chair called on Mr. Jon Cooper for an update of the Wildlife and Boat Committee meeting.

Mr. Cooper gave a report on the Wildlife and Boat Committee meeting from March 18, 2026.

- Migratory Game Bird Season and Bag Limits Proposals Proposal.

  Mr. Cooper made a motion: I move that the Board of Wildlife Resources approve the preliminary 2026-2027 Migratory Game Bird Season and Bag Limit recommendations as presented by staff. It was seconded by Ms. Dance.

  Ayes: Terwilliger, Formica, Woodall, Edmunds, Cooper, Maclin, Walters, Wampler, Broaddus, Dance

Mr. Cooper reported that Dr. Mike Bednarski gave a report on Public Scoping Period for Sportfishing.

Ms. Stacey Brown reported on Public Scoping Period for Boating.

Ms. Amy Martin reported on Public Scoping Period for Nongame.

Mr. Cooper reported that Dr. John Tracey and Ms. Alexandra Lombard gave a presentation on the CWD Plan.

The Chair thanked Mr. Cooper for his report of the Wildlife and Boat Committee meeting of March 18, 2026.

After comments and questions, The Chair thanked Mr. Cooper for his report.

Finance, Audit, & Compliance Committee Report:

The Chair called on Mr. Woody Woodall for an update on the Finance, Audit, and Compliance Committee meeting from March 18, 2026.

Mr. Woodall gave an update on the Finance, Audit and Compliance Committee meeting of March 18, 2026. Mr. Woodall reported Mr. Darin Moore, Mr. Tim Springer and Ms. Stephanie Adams gave a Spending Plan and Budgeting Process Report. Mr. Woodall reported that Mr. Darin Moore and Ms. Doreen Richmond reported on Virginia DWR fee comparisons with other states to Hunt, Fish, Trap, Boat and Watch Wildlife.

Law Enforcement Committee Report:

The Chair called on Mr. Will Wampler for an update on the Law Enforcement Committee meeting of March 18, 2026.

Mr. Wampler gave an update on the Law Enforcement Committee meeting of March 18, 2026.

Mr. Wampler reported that First Sergeant Amanda Nevel gave an overview of the 15th Basic Academy and presented the 10 Recruits. The Recruits gave their name, where they will be assigned and where they had moved from.

Mr. Wampler reported that Captain Rob Ham gave an update on the VCP Roadmap.

Mr. Wampler reported that Colonel Cobb gave a law enforcement update, reporting that there would be a leadership Work Session at Holiday Lake on March 24-26, 2026, there will be a SNHR Public Safety & Law Enforcement Services Display on April 24, 2026, at First Landing State Park. The 8th Annual Game Warden/CPO Retiree Newsletter has just been completed. The 8th Annual VCP Awards Ceremony will be on March 18, 2026, recognizing 32 officers and staff members.

The Chair thanked Mr. Wampler for his update at the Law Enforcement Committee meeting of March 18, 2026.

Education, Planning, and Outreach Committee Report:

The Chair called on Ms. Laura Walters for an update on the Education, Planning, and Outreach Committee meeting of March 18, 2026.

Ms. Walters gave an update on the Education, Planning, and Outreach Committee Report of March 18, 2026.

Ms. Walters reported that Ms. Steenburgh gave an update on the 2026 Restore the Wild Art Contest held at Main Steet Station on March 6, 2026, there were 254 total art pieces were submitted for the event and 400+ people attended and the committee raised $4,000 through the Raffle and Silent Auction and the pieces of art were sold.
Ms. Walters reported Mr. Jimmy Mootz gave an overview of Hunter Education Program reporting that 8,500 students were trained, and our volunteers hours were 15,831 representing $425,000 in grant funds. Our program "The Outdoors are Better Together: has taken off and are having amazing programs and participation Mr. Bryan Moyer gave the Outreach Division Director's Updated and reported the Restore the Wild Committee did an awesome job on with 254 pieces of art submitted and 400+ people in attendance, the Virginia Nasp State Tournament was also a Hugh success , she reported the 8,500 students were trained and volunteers hour were 15,731, the Elk Lottery and the 3rd Virginia Birding Classic and the banding of baby Falcon Chicks is coming soon, and Outreach and DWR are partnering with Nascar driver Chase Bristow to promote fishing.

The Chair thanked Ms. Walters for her update on the Education, Planning, and Outreach Committee meeting of March 18, 2026.

Next Meeting Date: The Chair announced that the next meeting date will be Thursday, May 21, 2026.

Closed Session: The Chair announced the Board would go into Close Session at 10:20 am.

Ms. Dance read the Close Session Motion; it was seconded by Mr. Wampler.

Ayes: Terwilliger, Formica, Woodall, Edmunds, Cooper, Maclin, Walters, Wampler, Broaddus, Dance

Closed Meeting Motion, March 19, 2026

Mr. Chairman,

I move that the Board go into a closed meeting:

First, Pursuant to Section 2.2-3711.A.1 of the Code of Virginia for discussion or consideration of employment, assignment, appointment, promotion, performance,

demotion, salaries, discipline, or resignation of specific public officers, appointees, or employees of the Department of Wildlife Resources, specifically regarding the performance of the Director.

Second, pursuant to Section 2.2-3711.A.3 of the Code of Virginia, for discussion or consideration of the acquisition of real property for a public purpose, or of the disposition of publicly held real property, where discussion in an open meeting would adversely affect the bargaining position or negotiating strategy of the public body, specifically regarding real estate located in the City of Chesapeake.

This closed meeting will be attended only by members of the Board. However, pursuant to Section 2.2-3712(F), the Board requests the Department Director, the Deputy Directors, and the Real Property Manager to also attend this meeting, as it believes their presence will reasonably aid the Board in its consideration of topics that are the subject of the meeting.

The Board reconvened from Closed Session at 1:05 pm.

Certification of Closed Meeting

March 19, 2026

WHEREAS, the Board of Wildlife Resources conducted a closed meeting on this date pursuant to an affirmative recorded vote and in accordance with the provisions of the Virginia Freedom Information Act; and
WHEREAS, Section 2.2-3712.D of the Code requires a certification by this Board that such closed meeting was conducted in conformity with Virginia law;

NOW, THEREFORE, BE IT RESOLVED that the Board of Wildlife Resources hereby certifies that, to the best of each member's knowledge, only public business matters lawfully exempted from open meeting requirements by Virginia law were discussed in the closed meeting to which this certification resolution applies, and only such public business matters as were identified in the motion convening the closed meeting were heard, discussed or considered by the Board.

The Board Secretary called a Roll Call vote: Ayes: Mr. Woodall, Mr. Edmunds, Mr. Cooper, Mr. Maclin, Ms. Walters, Mr. Wampler, Mr. Broaddus, Ms. Dance, Mr. Terwilliger, Mr. Formica

The Chair called on Mr. Woodall for a motion. I move that the Board of the Virginia Department of Wildlife Resources authorize the Director to acquire +243 acres in the City of Chesapeake, VA including the procurement of certain due diligence items. It was seconded by Mr. Formica.

Ayes: Mr. Woodall, Mr. Edmunds, Mr. Cooper, Mr. Maclin, Ms. Walters, Mr. Wampler, Mr. Broaddus, Ms. Dance, Mr. Terwilliger, Mr. Formica

Director's Report: The Chair called on Director Ryan Brown for his report.

Director Brown thanked the Board for their support of this agency and thanked the staff for their presentations and work and dedication to this agency.

Chairman's Report:

The Chair thanked the public who attended and welcomed their remarks.
Mr. Terwilliger thanked all staff for their tremendous work for DWR. He appreciates all their hard work and enjoys their presentations at the Board meetings.

Additional Business/Comments: The Chair asked if any additional business or comments.

The Chair asked if anyone had any further comments, hearing none, he adjourned the Board meeting at 1:30 pm.

Respectfully submitted,
/s/ Frances Boswell

4VAC15-320-25. Creel and length limits.

SUMMARY: The recommendation is to modify the regulation table to include size and bag limits for waters shared with Tennessee, specifically those pertaining to smallmouth bass, white bass, crappie, rock bass, trout, and catfish.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-320-25. Creel and length limits.

The creel limits, including live possession, and the length limits for the various species of fish shall be as follows, unless otherwise excepted by posted rules at department-owned or department-controlled waters (see 4VAC15-320-100 D).

Type of fish	Subtype or location	Creel and length limits	Geographic exceptions	Creel or length limits for exceptions
largemouth bass, smallmouth bass		5 per day in the aggregate (combined) No statewide length limits	**Lakes**	
			Briery Creek Lake	No largemouth or smallmouth bass 16 to 24 inches; only 1 largemouth or smallmouth bass per day in the aggregate longer than 24 inches
			Buggs Island (Kerr)	Only 2 of 5 largemouth or smallmouth bass in the aggregate less than 14 inches
			Claytor Lake	No smallmouth bass less than 14 inches

			Flannagan Reservoir	No smallmouth bass less than 15 inches No largemouth bass less than 12 inches
			Lake Gaston	Only 2 of 5 largemouth or smallmouth bass in the aggregate less than 14 inches
			Leesville Reservoir	Only 2 of 5 largemouth or smallmouth bass in the aggregate less than 14 inches
			Lake Moomaw	No largemouth or smallmouth bass less than 12 inches
			Smith Mountain Lake and its tributaries below Niagara Dam	Only 2 of 5 largemouth or smallmouth bass in the aggregate less than 14 inches
			South Holston Reservoir	No smallmouth less than 15 inches
			Rivers	
			Clinch River – within the	No largemouth or smallmouth

			boundaries of Scott, Wise, Russell, or Tazewell Counties	bass less than 20 inches; only 1 largemouth or smallmouth bass in the aggregate per day longer than 20 inches
			Levisa Fork River – within the boundaries Buchanan County	No largemouth or smallmouth bass less than 20 inches; only 1 largemouth or smallmouth bass in the aggregate per day longer than 20 inches
			Dan River and tributaries downstream from the Union Street Dam, Danville	Only 2 of 5 largemouth or smallmouth bass less than 14 inches
			James River – Confluence of the Jackson and Cowpasture rivers (Botetourt County) downstream to the 14th Street Bridge in Richmond	No largemouth or smallmouth bass 14 to 22 inches; only 1 largemouth or smallmouth bass in the aggregate per day longer than 22 inches
			New River – Fields Dam (Grayson County) downstream to the VA - WV state	No largemouth or smallmouth bass 14 to 22 inches; only 1 largemouth or

			line and its tributaries Little River downstream from Little River Dam in Montgomery County, Big Walker Creek from the Norfolk Southern Railroad Bridge downstream to the New River, and Wolf Creek from the Narrows Dam downstream to the New River in Giles County (This does not include Claytor Lake, which is delineated as: The upper end of the island at Allisonia downstream to the dam)	smallmouth bass in the aggregate per day longer than 22 inches
			North Fork Holston River - Rt. 91 bridge upstream of Saltville, VA downstream to the VA - TN state line	No largemouth or smallmouth bass less than 20 inches; only 1 largemouth or smallmouth bass in the aggregate per day longer than 20 inches
			Potomac River - Virginia tidal	No largemouth or smallmouth

			tributaries above Rt. 301 bridge	bass less than 15 inches from March 1 through June 15
			Roanoke (Staunton) River - and its tributaries below Difficult Creek, Charlotte County	Only 2 of 5 largemouth or smallmouth bass in the aggregate less than 14 inches
			Shenandoah River, South Fork Shenandoah River, North Fork Shenandoah River	No largemouth or smallmouth bass 11 to 14 inches
			Staunton River -	
			Leesville Dam (Campbell County) downstream to the mouth of Difficult Creek, Charlotte County	No largemouth or smallmouth bass less than 20 inches; only 1 largemouth or smallmouth bass in the aggregate per day longer than 20 inches

Alabama bass, spotted bass		No statewide daily limit No statewide length limit		

striped bass	landlocked striped bass and landlocked striped bass - white bass hybrids	4 per day in the aggregate No fish less than 20 inches	Buggs Island (Kerr) Reservoir, including the Staunton (Roanoke) River and its tributaries to Leesville Dam and the Dan River and its tributaries to Union Street Dam (Danville)	October 1 - May 31: 2 per day in the aggregate; no striped bass or hybrid striped bass less than 20 inches or greater than 26 inches June 1 - September 30: 4 per day in the aggregate; no length limit
			Claytor Lake and its tributaries	September 16 – June 30: 2 per day in the aggregate; no striped bass or hybrid bass less than 20 inches July 1 – September 15: 4 per day in the aggregate; no length limit
			Smith Mountain Lake and its tributaries, including the Roanoke River upstream to Niagara Dam	2 per day in the aggregate November 1 - May 31: No striped bass 30 to 40 inches June 1 - October 31: No length limit

			Lake Gaston	4 per day in the aggregate October 1 - May 31: No striped bass or hybrid striped bass less than 20 inches June 1 - September 30: No length limit
	anadromous (coastal) striped bass above the fall line in all coastal rivers of the Chesapeake Bay and Crane Lake (City of Suffolk)	Creel and length limits shall be set by the Virginia Marine Resources Commission for recreational fishing in tidal waters		
	anadromous (coastal) in the Meherrin, Nottoway, Blackwater (Chowan Drainage), North Landing and Northwest Rivers and their tributaries plus Back Bay	No possession		

white bass		5 per day No statewide length limits	Buggs Island (Kerr) Reservoir, including the Staunton (Roanoke) River and its tributaries to Leesville Dam and the Dan River and its tributaries to Union Street Dam (Danville)	10 per day; no white bass less than 14 inches
			Lake Gaston	10 per day; no white bass less than 14 inches
			South Holston Reservoir	No harvest permitted

walleye, saugeye		5 per day in the aggregate No walleye or saugeye less than 18 inches	Claytor Lake and the New River upstream of Claytor Lake Dam to Fries Dam in Grayson County	2 walleye per day; no walleye 19 to 28 inches
sauger		2 per day No statewide length limits		
yellow perch		No statewide daily limit No statewide length limits	Lake Moomaw	10 per day
			Below the fall line in all coastal rivers of the Chesapeake Bay	No yellow perch less than 9 inches; no daily limit

chain pickerel and northern pike		5 per day No statewide length limits	Gaston and Buggs Island (Kerr) Reservoirs	No daily limit
muskellunge		1 per day No muskellunge less than 40 inches	New River - Claytor Dam downstream to the VA - WV state line	1 per day June 1 - last day of February: No muskellunge 40 to 48 inches March 1 - May 31: No muskellunge less than 48 inches

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bluegill (bream) and other sunfish excluding crappie, rock bass (redeye) and Roanoke bass		50 per day in the aggregate No statewide length limits	Gaston and Buggs Island (Kerr) Reservoirs, including the Staunton (Roanoke) River and its tributaries to Difficult Creek, Charlotte County and the Dan River and its tributaries to the Banister River, Halifax County and that portion of the New River from the VA - NC state line downstream to the confluence of the New and	No daily limit

			Little Rivers in Grayson County	

crappie (black or white)		25 per day in the aggregate No statewide length limits	Lake Gaston and that portion of the New River from the VA - NC state line downstream to the confluence of the New and Little Rivers in Grayson County	No daily limit
			Buggs Island (Kerr) Reservoir, including the Staunton (Roanoke) River and its tributaries to Difficult Creek, Charlotte County and the Dan River and its tributaries to the Banister	No crappie less than 9 inches

			River, Halifax County	
			Briery Creek and Sandy River Reservoirs	No crappie less than 9 inches
			Flannagan Reservoir	No crappie less than 10 inches
			South Holston Reservoir	No crappie less than 10 inches, 15 per day
rock bass (redeye)		25 per day; in the aggregate with Roanoke bass No statewide length limits	Gaston and Buggs Island (Kerr) Reservoirs and that portion of the New River from the VA - NC state line downstream to the confluence of the New and Little Rivers in Grayson County	No daily limit
			Nottoway, Meherrin, Blackwater (Franklin County), Blackwater (Chowan Drainage), Falling, and Smith Rivers and their tributaries	5 per day in the aggregate with Roanoke bass; no rock bass less than 8 inches

			South Holston Reservoir	20 per day
Roanoke bass		25 per day in the aggregate with rock bass No statewide length limits	Nottoway, Meherrin, Blackwater (Franklin County), Blackwater (Chowan Drainage), Falling, and Smith Rivers and their tributaries	5 per day in the aggregate with rock bass; no Roanoke bass less than 8 inches
Trout	See 4VAC15-330. Fish: Trout Fishing.		South Holston Reservoir	No minimum length limit, 7 per day only 2 of which may be lake trout
catfish	channel, white, and flathead catfish	20 per day; No length limits	All rivers below the fall line	No daily limit
			South Holston Reservoir	20 per day, only 1 over 34 inches
	blue catfish	20 per day; No statewide length limits	Lake Gaston	No daily limit, except only 1 blue catfish per day longer than 32 inches
			Kerr Reservoir, including the	20 per day, except only

			Staunton (Roanoke) River and its tributaries to Difficult Creek, Charlotte County and the Dan River and its tributaries to the Banister River, Halifax County	1 blue catfish per day longer than 32 inches
			James River and its tributaries below the fall line downstream to a line connecting Hog Point on Hog Island (Surry County) and the downstream point of the mouth of College Creek (James City County)	No daily limit, except only 1 blue catfish per day longer than 32 inches
			All rivers below the fall line other than the James River and its tributaries, Rappahannock River and its tributaries, and	No daily limit

			the York River and its tributaries	
hickory shad	Above and below the fall line in all coastal rivers of the Chesapeake Bay	Creel and length limits shall be the same as those set by the Virginia Marine Resources Commission in tidal rivers		
	Meherrin River below Emporia Dam Nottoway River, Blackwater River (Chowan Drainage), North Landing and Northwest Rivers, and their tributaries plus Back Bay	10 per day No length limits		
American shad		No possession		
anadromous (coastal) alewife and blueback herring	Above and below the fall line in all coastal rivers of the Chesapeake Bay	Creel and length limits shall be the same as those set by the Virginia Marine Resources Commission for these species in tidal rivers		
	Meherrin River, Nottoway River,	No possession		

	Blackwater River (Chowan Drainage), North Landing and Northwest Rivers, and their tributaries plus Back Bay			
red drum	Back Bay and tributaries including Lake Tecumseh and the North Landing River and its tributaries	1 per day No drum less than 18 inches or greater than 27 inches		
spotted sea trout (speckled trout)	Back Bay and tributaries including Lake Tecumseh and the North Landing River and its tributaries	4 per day No sea trout less than 14 inches		
grey trout (weakfish)	Back Bay and tributaries including Lake Tecumseh and North Landing River and its tributaries	1 per day No grey trout less than 12 inches		
southern flounder	Back Bay and tributaries including Lake Tecumseh and the North	6 per day No flounder less than 15 inches		

	Landing River and its tributaries			
northern snakehead		Anglers may possess snakeheads taken from Virginia waters if they immediately kill the fish and notify the headquarters or a regional office of the department; notification may be made by telephoning (804) 367-2925 No statewide daily limit No statewide length limits		
longnose gar		July 1 to April 14: 5 per day April 15 to June 30: 1 per day No statewide length limits		
bowfin		July 1 to April 14: 5 per day April 15 to June 30: 1 per day No statewide length limits		
American eel		25 per day No eel less than 9 inches	Back Bay and North Landing River	No possession limit for those individuals possessing a

				permit obtained under 4VAC15-340-80
other native or naturalized nongame fish	See 4VAC15-360-10. Fish: Aquatic Invertebrates, Amphibians, Reptiles, and Nongame Fish. Taking aquatic invertebrates, amphibians, reptiles, and nongame fish for private use.			
endangered or threatened fish	See 4VAC15-20-130. Definitions and Miscellaneous: In General. Endangered and threatened species; adoption of federal list; additional species enumerated.			
nonnative (exotic) fish	See 4VAC15-30-40. Definitions and Miscellaneous: Importation, Possession, Sale, Etc., of Animals. Importation requirements, possession and sale of nonnative (exotic) animals.			

Statutory Authority

§§ 29.1-501 and 29.1-502 of the Code of Virginia.

RATIONALE: 4VAC15-320-25 is the creel (how many you can keep) and length limit table. This table applies to all fishes defined as gamefish under 29.1-100 as well as selected non game species. Whenever possible, DWR seeks to align size and bag limits on waters shared with adjacent states. Historically, all of the size and bag limits for South Holston and Flannagan Reservoirs were present in the regulation guide but not in the administrative code. This action will add them to the administrative code.

4VAC15-320-60. Approval required to stock fish into inland waters

SUMMARY: The recommendation is to add rock bass and flathead catfish to the list of fish that cannot be stocked into private lakes and ponds.

4VAC15-320-60. Approval required to stock fish into inland waters.

A. It shall be unlawful to stock any species of fish into any inland waters of the Commonwealth without first obtaining written approval to do so from the department. Nothing in this section shall be construed as restricting the use of native and naturalized species of fish in privately-owned ponds and lakes, except spotted bass, rock bass, flathead catfish, blue catfish, and their hybrids may not be stocked.

B. The Department of Wildlife Resources (department) shall issue a written stocking authorization within 15 business days of receipt of a completed Virginia Fish Stocking Authorization Form, unless the department determines that granting such authorization may (i) endanger any native or naturalized population of fish; (ii) introduce, enable, or enhance the spread of fish diseases, including parasites; or (iii) establish nonnative or exotic aquatic species where such species may displace, threaten, or endanger native or naturalized species. Where an exception to issuance exists, the application shall be denied.

C. The department shall set an expiration date for each stocking authorization issued, limit the authorization to a specific species of fish, and geographically limit the stocking authorization.

D. The department is authorized to modify or revoke any stocking authorization where the department discovers any situation listed in subsection B of this section to exist or where otherwise permitted by law or regulation.

Statutory Authority

§§ 29.1-501 and 29.1-502 of the Code of Virginia.

RATIONALE: Both rock bass and flathead catfish are invasive species. Rock bass hybridize with Roanoke bass, a Species of Greatest Conservation Need that supports a small but important recreational fishery. Flathead catfish are highly invasive predators that are introduced illegally to create sport fishing opportunities. Adding both of these species to the “no stocking” provision will help curb the potential spread by making it unlawful to stock into private waterbodies. Existing regulation prohibits the stocking of any fish into a river, stream or public lake without a stocking authorization from the Department.

4VAC15-330-150. Special provision applicable to trout fishing using artificial lures with single hook.

SUMMARY: The recommendation is to remove Smith Creek in Alleghany County from this provision and add Grassy Creek and its tributaries within the boundaries of Breaks Interstate Park.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-330-150. Special provision applicable to trout fishing using artificial lures with single hook.

It shall be lawful year-round to fish for trout using only artificial lures with single hooks within:

1. The Stewarts Creek Trout Management Area in Carroll County.

2. The Rapidan and Staunton Rivers and their tributaries upstream from a sign at the Lower Shenandoah National Park boundary in Madison County.

3. The Dan River and its tributaries between the Townes Dam and the Pinnacles Hydroelectric Project powerhouse in Patrick County.

4. The East Fork of Chestnut Creek (Farmers Creek) and its tributaries upstream from the Blue Ridge Parkway in Grayson and Carroll Counties.

5. Roaring Fork and its tributaries upstream from the southwest boundary of Beartown Wilderness Area in Tazewell County.

6. That section of the South Fork Holston River and its tributaries from the concrete dam at Buller Fish Culture Station downstream to the lower boundary of the Buller Fish Culture Station in Smyth County.

7. North Creek and its tributaries upstream from a sign at the George Washington National Forest North Creek Campground in Botetourt County.

8. Spring Run from it confluence with Cowpasture River upstream to a posted sign at the discharge for Coursey Springs Hatchery in Bath County.

9. Venrick Run and its tributaries within the Big Survey Wildlife Management Area and Town of Wytheville property in Wythe County.

10. Brumley Creek and its tributaries from the Hidden Valley Wildlife Management Area boundary upstream to the Hidden Valley Lake Dam in Washington County.

11. Stony Creek (Mountain Fork) and its tributaries within the Jefferson National Forest in Wise and Scott Counties from the outlet of High Knob Lake downstream to the confluence of Chimney Rock Fork and Stony Creek.

12. Little Stony Creek and its tributaries within the Jefferson National Forest in Scott County from the Falls of Little Stony Creek downstream to a posted sign at the Hanging Rock Recreation Area.

13. Little Tumbling Creek and its tributaries within the Clinch Mountain Wildlife Management Area in Smyth and Tazewell Counties downstream to the concrete bridge.

14. Big Tumbling Creek and its tributaries within the Clinch Mountain Wildlife Management Area in Russell, Smyth, and Washington Counties from a sign starting at the foot of the mountain and extending upstream seasonally from October 1 until five days prior to the first Saturday in April.

15. South River in the City of Waynesboro from the Wayne Avenue Bridge downstream 2.2 miles to the Second Street Bridge.

16. Wolf Creek and its tributaries within the Abingdon Muster Grounds in the Town of Abingdon from Colonial Road downstream to Stone Mill Road.

17. Beaver Creek and its tributaries within the boundaries of Sugar Hollow Park in the City of Bristol.

18. Green Cove Creek in Washington County from Route 859 downstream to its mouth.

19. Whitetop Laurel Creek in Washington County upstream from the mouth of Straight Branch to a sign posted at the Forest Service boundary just downstream of Taylor Valley, and in Whitetop Laurel Creek in Washington County upstream from the first railroad trestle above Taylor Valley to the mouth of Green Cove Creek at Creek Junction.

~~20. Smith Creek in Alleghany County from the Clifton Forge Dam downstream to a sign at the Forest Service boundary above the C & O Dam.~~

20. Grassy Creek and its tributaries in Dickenson County within the boundary of Breaks Interstate Park.

21. Snake Creek in Carroll County below Hall Ford and that portion of Little Snake Creek below the junction of Routes 922 and 674, downstream to Route 58.

22. The North Fork Moormans River and its tributaries from the head of Sugar Hollow Reservoir upstream 0.3 miles to the Shenandoah National Park boundary.

All trout caught in these waters must be immediately returned to the water. No trout or bait may be in possession at any time in these areas.

Statutory Authority

§§ 29.1-103, 29.1-501, and 29.1-502 of the Code of Virginia.

RATIONALE: The first change is to reflect the discontinuation of stocking and the lack of the establishment of a fishery in Smith Creek – there is no longer a reason to require special regulations. The second change is to reflect an effort to develop a quality trout fishery in Breaks Interstate Park in conjunction with Kentucky Department of Fish and Wildlife.

4VAC15-350-60. Trotlines, juglines, limblines, or set poles.

SUMMARY: Section D was added to reflect joint regulations for South Holston Reservoir.

4VAC15-350-60. Trotlines, juglines, limblines, or set poles.

A. Generally. Except as otherwise provided by local legislation and by subsections B and C of this section, and except on waters stocked with trout and within 600 feet of any dam, it shall be lawful to use trotlines, juglines (single hook, including one treble hook, and line attached to a float), limblines, or set poles for the purpose of taking nongame fish (daily creel (possession) and length limits for nongame fish are found in 4VAC15-320-25) provided that no live bait is used. Notwithstanding the provisions of this section, live bait other than game fish may be used on trotlines to take catfish in the Clinch River in the Counties of Russell, Scott, and Wise. Any person setting or in possession of a trotline, jugline, limbline, or set pole shall have it clearly marked by permanent means with his name, address, and telephone number, and is required to check all lines at least once each day, remove all fish and animals caught, and completely remove all lines from the water, shoreline, and tree limbs when not in use. This requirement shall not apply to landowners on private ponds, nor to a bona fide tenant or lessee on private ponds within the bounds of land rented or leased, nor to anyone transporting any such device from its place of purchase.

B. Quantico Marine Reservation. It shall be unlawful to fish with trotlines in any waters within the confines of Quantico Marine Reservation.

C. Additional jugline requirements. Jugline sets (except as exempt under subsection A of this section) shall be restricted to 20 per angler and must be attended (within sight) by anglers at all times. Also, in addition to being labeled with the angler's name, address, and telephone number, jugs shall also be labeled with a reflective marker that encircles the jugs to allow for visibility at night.

D. South Holston Reservoir. On South Holston Reservoir, the number of jugline sets shall be restricted to 50 per angler and the number of limbline sets shall be restricted to 15 per angler. Additionally, trotline sets on South Holston Reservoir shall be restricted to 100 hooks per angler. All other requirements outlined in subsection A of this section shall apply.

Statutory Authority

§§ 29.1-103, 29.1-501, and 29.1-502 of the Code of Virginia.

RATIONALE: Where possible, DWR seeks consistency in regulation with other states on shared waters. Historically, this regulation was published in the regulation guide but not formally

in regulation. This addition will formalize the will add the requirement and ensure consistency with Tennessee.

VIRGINIA DEPARTMENT OF WILDLIFE RESOURCES

BOATING DIVISION BOATING REGULATION

Staff Recommendations May 2026

Virginia Administrative Code

4VAC15-390. Watercraft: Safe and Reasonable Operation of Vessels

4VAC15-390-10. Applicability.

Summary: This amendment will revise the current regulation related to safe and efficient operation of vessels and in particular the application of navigation rules.

Rationale: A change to the current regulation, 4VAC15-390-10, is needed because the existing language has led to cases being dismissed in court. In 2023, we revised this chapter to remove the specific U.S. Coast Guard (USCG) Inland Navigation Rules and instead reference those rules directly in the applicability section. This was done because a wording change in the federal USCG rules made our regulation unenforceable. To resolve the ongoing enforceability issue, staff has recommended revising the regulation again. This proposed revision incorporates the USCG navigation rules by reference and clearly states that any violation of those federal rules is also a violation of this regulation.

4VAC15-390-10. Applicability. (AMEND)

~~The following sections in~~ This chapter appl~~y~~ies to the operation of ~~"~~vessels,~~"~~ as "vessel" is defined in § 29.1-700 of the Code of Virginia, on all waters within the Commonwealth. In addition to the regulations set forth in this chapter, United States Coast Guard regulations ~~Vessels complying with the Inland Navigation Rules,~~ 33 CFR Parts 83, 84, 86, 87, and 88~~, as established by the U.S. Coast Guard,~~ are ~~considered to be in compliance with the requirements of~~ incorporated by reference into this chapter. Violations of these federal regulations (33 CFR Parts 83, 84, 86, 87, and 88) may be charged as a violation of this regulation.

Statutory Authority

§§29.1-701 and 29.1-735 of the Code of Virginia.

Chapter 430. Watercraft: Safety Equipment Requirements

4VAC15-430-30. Personal flotation devices required.

Summary: This amendment will adopt the federal requirement for life jackets to be worn by children under the age of 13.

Rationale: An amendment to the regulation on personal flotation devices is being proposed to incorporate the federal child life jacket requirement into Virginia's regulations, as recommended by the Board and during the public scoping period. Both the Lake Anna Civic Association and the Tri-County Lake Administrative Commission, which serves Smith Mountain Lake, included a suggestion to adopt this requirement during the public scoping period. Aligning Virginia's regulation with the federal standard will reduce confusion about differing life jacket requirements for children.

4VAC15-430-30. Personal flotation devices required. (AMEND)

D. No person may operate a recreational vessel under way with any child under 13 years of age aboard unless each such child is either:

1. Wearing an appropriate PFD approved by the Coast Guard; or

2. Below decks or in an enclosed cabin.

Statutory Authority
§ 29.1-701 and 29.1-735 of the Code of Virginia.

Chapter 430. Watercraft: Safety Equipment Requirements

4VAC-430-220. Engine cut-off switch required.

Summary: Staff is proposing a new regulation requiring the use of a boat's engine cut off switch for certain vessels under certain conditions.

Rationale: A new regulation is being created to match the federal rule that requires certain motorboats to use an engine cutoff switch (ECOS) under specific conditions. The federal law requiring the use of engine cutoff switches, **46 USC 4312**, was enacted in 2018.

For Virginia to maintain a USCG-approved Recreational Boating Program, the state must adopt the equipment rules set by the USCG unless the federal statute specifically says that states do *not* have to adopt them (as is the case with child life jacket rules) (reference Commandant Publication 16755.3B).

State law **§ 29.1-735 B** also instructs the agency to keep Virginia's boating regulations generally aligned with federal navigation laws and USCG rules. However, another Virginia statute, **§ 29.1-748 A 4**, conflicts with the federal ECOS requirement in 46 USC 4312. Because of the conflict between state law and federal law, Virginia has not been able to adopt a state regulation that would mirror the federal ECOS rule.

In 2025, the USCG issued a policy letter stating that existing state laws that already require ECOS wear on personal watercraft (PWCs), even if they conflict with 46 USC 4312, are exempt from federal preemption. This clarification now allows Virginia to move forward with creating an ECOS requirement for certain motorboats that is in alignment with federal law and does not conflict with Virginia statute that requires ECOS wear for PWC operators any time while underway (**§ 29.1-748 A 4)**.

4VAC15-430-220. Engine Cut-Off Switch (NEW)

1. Any operator of a motorboat 26' or less and capable of developing 115 pounds or more of static thrust equipped with an engine cut-off switch shall have attached the engine cut-off switch to their person while on plane or otherwise in displacement mode unless the main helm of the vessel is within an enclosed cabin.
2. This section does not apply to Personal Watercraft as defined § 29.1-700.

Statutory Authority

§§ 29.1-501, 29.1-502, 29.1-701, and 29.1-735 of the Code of Virginia.

Chapter 430. Watercraft: Safety Equipment Requirements

4VAC15-430-230. Penalities.

Summary: Renumbering of existing regulation.

Rationale:

The addition of the engine cut-off switch requirement necessitates the renumbering of this chapter.

4VAC15-430-~~220~~230. Penalties. (AMEND)

Except as otherwise provided by statute, any person who violates any provision of this chapter shall be guilty of a Class 4 misdemeanor for each such violation as provided by § 29.1-746 of the Code of Virginia.

Statutory Authority

§§ 29.1-501, 29.1-502, 29.1-701, and 29.1-735 of the Code of Virginia.

Chapter 370. Watercraft: in General

4VAC15-370-50. Regulatory markers and aids to navigation.

Summary: Staff proposes amendments to this chapter to simplify the regulation and clarify the application of the regulation.

Rationale:

The proposed updates would add references to the U.S. Coast Guard (USCG) rules for waterway markers, including their shapes and colors. By referring to the USCG standards instead of listing specific shapes and colors in our own regulations, we ensure our rules stay aligned with any future USCG changes. Other changes would require that regulatory markers be installed and maintained according to the terms of their application, authorization, or the department's requirements. These updates also aim to better explain the rules for regulatory markers that individuals place under a local ordinance, as allowed by § 29.1-744 E. The requirements for size, shape, color, and wording will be expanded in agency requirements/authorization rather than specified in regulation.

4VAC15-370-50. Regulatory markers and aids to navigation. (AMEND)

A. Under the provisions of Chapter 7 of Title 29.1 of the Code of Virginia and the United States Aids to Navigation System, as established by 33 Code of Federal Regulations Part 62, a system of regulatory markers and a lateral buoyage marking system of aids to navigation are hereby adopted on all public waters of the Commonwealth not marked by an agency of the United States. Regulatory markers will be white with international orange bands. A vertical open-faced diamond shape with a white center shall denote danger. A vertical open-faced diamond shape with an inside cross shall denote a prohibition of all vessels. A circular shape with a white center shall denote a control or restriction. A rectangular shape shall denote information other than a danger, control or restriction. No regulatory marker, aid to navigation or other waterway marker affecting the safety, health or well-being of a boat operator, excepting those placed by an agency of the United States or a political subdivision of this Commonwealth as authorized in § 29.1-744 D of the Code of Virginia, shall be placed in, on or near the water unless authorized by the department.

B. The design, construction, and color of regulatory markers shall be uniform so that all vessel operators may readily recognize, identify and distinguish authorized regulatory markers. These specifications shall be prescribed in department requirements and shall be in accordance with the United States Aids to Navigation System, as established by 33 Code of Federal Regulations

Part 62. ~~When buoys are used as regulatory markers, they shall be white with horizontal bands of international orange, having a minimum width of two inches, placed completely around the buoy circumference. One band shall be at the top of the buoy, with a second band placed just above the waterline so that both bands are clearly visible to approaching watercraft. The area of the buoy body visible between the two bands shall be white and not less than 12 inches in height. No buoy shall be less than 24 inches in overall height from the waterline.~~

~~C. Where a regulatory marker consists of a sign displayed from a marine structure, post or piling, the sign shall be white, with an international orange border having a minimum width of three inches. The geometric shape associated with the meaning of the marker shall be centered on the signboard.~~

~~D. The size of the display area shall be as required by circumstances, except that no display area shall be smaller than one foot in height. The outside width of the diamond, the inner diameter of the circle, and the average of the inside and outside widths of a square shall be two-thirds of the display area~~. ~~The side of the diamond shall slope at a 35° angle from the vertical on the plane surface. Approximate adjustments for curvature may be made when applied to a cylindrical surface.~~

~~E~~ . ~~Explanatory words may be added outside the diamond with a center cross, the open diamond and the no wake circle on fixed markers only, and shall be added to the inside of the circle, square and rectangle. The letters of such words shall be black, in block characters of good proportion, spaced in a manner that will provide maximum legibility, and of a size that will provide the necessary degree of visibility. Applicable words include, but are not limited to:~~

~~1. Open faced diamond: rock, snag, cable, dam, dredge, shoal, reef, wreck.~~

~~2. Diamond with cross: dam, swim area, rapids, no boats.~~

~~3. Circle: no skiing, no wake, no anchoring, no fishing, no scuba, no boats, ski only, fishing only, for wording inside the circle; and entering no wake zone, leaving no wake zone, for wording outside the circle.~~

~~4. Square or rectangle: information other than a danger, control or restriction, which may contribute to health, safety, or well-being of boaters, such as place names, arrows indicating availability of gas, oil, groceries, marine repairs, limits of controlled areas, or approaching controlled area.~~

~~F. Waterway markers shall be made of materials that will retain the characteristics essential to their basic significance, such as color, shape, legibility and position, despite weather or other exposures.~~

~~G.~~ C. Regulatory markers shall be placed where they are reasonably visible from boats approaching the marker and the visibility of the marker shall be maintained in accordance with agency requirements or authorization.

D. Applications for waterway markers to be authorized by the Department under § 29.1-734 or § 29.1-744 E shall be submitted in a manner determined by the department and shall include but not be limited to: specific purpose of control area, danger or hazard to navigation, or public swim area; specific location of the regulated area; and reference to local ordinance authorizing a control area.

1. Authorized waterways markers must be placed in accordance with all department conditions.

~~H~~ 2. Written approval of the department must be obtained before relocation of any marker.

~~I~~ 3. The person responsible for the marker shall immediately notify the department when any approved marker is removed or destroyed. Such marker shall be replaced without unnecessary delay.

~~J~~ 4. After notification to the person responsible for the marker, the department may cancel for reasonable cause any marker authorization. Such marker shall be removed by the person responsible for the marker without unnecessary delay. Should the marker not be removed within a reasonable amount of time, the department may remove the marker or have it removed at the expense of the person responsible for the marker.

~~K~~ 5. The political subdivision or agency making application shall certify that the markers to be installed conform to the above provisions.

~~L~~ E. It shall be unlawful to enter, use, or occupy public waters for a purpose contrary to the use indicated on markers authorized by the department, or placed by an agency of the Unites States or a political subdivision of this Commonwealth.

~~M~~ F. It shall be unlawful to moor or attach a vessel to a marker other than an approved mooring buoy, or move, remove, displace, tamper with, damage or destroy a marker authorized by the department, placed by an agency of the United States or placed by a political subdivision of this Commonwealth.

Statutory Authority
§§ 29.1-103, 29.1-501, 29.1-502, and 29.1-701 of the Code of Virginia.

Chapter 370. Watercraft: in General

4VAC15-370-51. Regulatory markers and aids to navigation maintenance.

Summary: Amend regulation to specify maintenance requirements as specified by agency requirement.

Rationale: Current regulation is very general in relationship to the required maintenance. These generalities make it difficult to provide inspections and document deficiencies with waterway marker maintenance. The additional language being added to the regulation stipulates that waterway markers must be maintained as prescribed by the agency. Specifies that markers need to be placed and maintained according to requirements set out in the authorization for the markers. The requirements for proper maintenance will be expanded in agency requirements/authorization rather than specified in regulation.

4VAC15-370-51. Regulatory markers and aids to navigation maintenance. (AMEND)

The person responsible for a regulatory marker or aid to navigation shall maintain such marker or aid to ensure visibility, readability and proper placement of the marker or aid to navigation in accordance with agency requirements or authorization. The department may remove, have removed or require removal of any marker not maintained or repaired. All costs of removal shall be borne by the person responsible for the marker.

Statutory Authority

§§ 29.1-501, 29.1-502, 29.1-701, 29.1-735, and 29.1-744 of the Code of Virginia.

Virginia Department of Wildlife Resources
List of Native and Naturalized Fauna of Virginia
May 12, 2026

(* denotes naturalized species; ** denotes species native to some areas of Virginia and naturalized in other areas of Virginia)

Common Name	***Scientific Name***
FISHES:	
Freshwater Fishes:	
Alabama Bass *	*Micropterus henshalli* *
Allegheny Pearl Dace	*Margaricus margarita*
American Brook Lamprey	*Lethenteron appendix*
Appalachia Darter	*Percina gymnocephala*
Ashy Darter	*Allohistium cinereum*
Banded Darter	*Etheostoma zonale*
Banded Killifish	*Fundulus diaphanus*
Banded Sculpin	*Cottus carolinae*
Banded Sunfish	*Ennaecanthus obesus*
Bigeye Chub	*Hybopsis amblops*
Bigeye Jumprock	*Moxostoma ariommum*
Bigmouth Chub	*Nocomis platyrhynchus*
Black Bullhead **	*Ameiurus melas* **
Black Crappie **	*Pomoxis nigromaculatus* **
Black Redhorse	*Moxostoma duquesnei*
Black Sculpin	*Cottus baileyi*
Blackbanded Sunfish	*Enneacanthus chaetodon*
Blacknose Dace	*Rhinichthys atratulus*
Blackside Dace *	*Chrosomus cumberlandensis* *
Blackside Darter	*Percina maculata*
Blacktip Jumprock **	*Moxostoma cervinum* **
Blotched Chub	*Erimystax insignis*
Blotchside Logperch	*Percina burtoni*
Blue Catfish *	*Ictalurus furcatus* *
Blue Ridge Sculpin	*Cottus caeruleomentum*
Bluebreast Darter	*Nothonotus camurus*

Bluegill **	*Lepomis macrochirus* **
Bluehead Chub **	*Nocomis leptocephalus* **
Blueside Darter	*Etheostoma jessiae*
Bluespar Darter	*Etheostoma meadiae*
Bluespotted Sunfish	*Enneacanthus gloriosus*
Bluestone Sculpin	*Cottus sp. 1*
Bluntnose Minnow **	*Pimephales notatus* **
Brassy Jumprock	*Moxostoma sp.*
Bridle Shiner	*Notropis bifrenatus*
Brook Silverside	*Labidesthes sicculus*
Brook Trout	*Salvelinus fontinalis*
Brown Bullhead **	*Ameiurus nebulosus* **
Brown Trout *	*Salmo trutta* *
Bull Chub	*Nocomis raneyi*
Bullhead Minnow	*Pimephales vigilax*
Candy Darter	*Etheostoma osburni*
Carolina Darter	*Etheostoma collis*
Carolina Fantail Darter	*Etheostoma brevispinum*
Central Stoneroller	*Campostoma anomalum*
Chain Pickerel	*Esox niger*
Chainback Darter	*Percina nevisense*
Channel Catfish **	*Ictalurus punctatus* **
Channel Darter	*Percina copelandi*
Clinch Dace	*Chrosomus sp. cf. saylori*
Clinch Sculpin	*Cottus sp. 4*
Comely Shiner	*Notropis amoenus*
Common Carp *	*Cyprinus carpio* *
Common Shiner	*Luxilus cornutus*
Creek Chub	*Semotilus atromaculatus*
Crescent Shiner **	*Luxilus cerasinus* **
Cutlip Minnow	*Exoglossum maxillingua*
Dusky Darter	*Percina sciera*
Duskytail Darter	*Etheostoma percnurum*
Eastern Creek Chubsucker	*Erimyzon oblongus*
Eastern Mosquitofish **	*Gambusia holbrooki* **
Eastern Mudminnow	*Umbra pygmaea*
Eastern Silvery Minnow	*Hybognathus regius*
Emerald Shiner	*Notropis atherinoides*
Fallfish	*Semotilus corporalis*

Fantail Darter	*Etheostoma flabellare*
Fathead Minnow **	*Pimephales promelas* **
Fatlips Minnow	*Phenacobius crassilabrum*
Flat Bullhead	*Ameiurus platycephalus*
Flathead Catfish **	*Pylodictis olivaris* **
Flier	*Centrarchus macropterus*
Florida Bass	*Micropterus salmoides*
Freshwater Drum **	*Aplodinotus grunniens* **
Gilt Darter	*Percina evides*
Glassy Darter	*Etheostoma vitreum*
Golden Darter	*Nothonotus denoncourti*
Golden Redhorse	*Moxostoma erythrurum*
Golden Shiner **	*Notemigonus crysoleucas* **
Goldfish *	*Carassius auratus* *
Green Sunfish **	*Lepomis cyanellus* **
Greenfin Darter	*Nothonotus chlorobranchius*
Greenside Darter	*Etheostoma blennioides*
Highback Chub	*Hybopsis hypsinotus*
Highfin Shiner	*Hudsonius altipinnis*
Highland (=Southern Rosyface) Shiner	*Notropis micropteryx*
Holston Sculpin	*Cottus sp. 5*
Ironcolor Shiner	*Alburnops chalybaeus*
Johnny Darter	*Etheostoma nigrum*
Kanawha Darter	*Etheostoma kanawhae*
Kanawha Minnow	*Phenacobius teretulus*
Kanawha Sculpin	*Cottus kanawhae*
Lake Chubsucker	*Erimyzon sucetta*
Largemouth Bass **	*Micropterus nigricans* **
Largescale Stoneroller	*Campostoma oligolepis*
Least Brook Lamprey	*Lampetra aepyptera*
Lined Topminnow	*Fundulus lineolatus*
Logperch	*Percina caprodes*
Longear Sunfish **	*Lepomis megalotis* **
Longfin Darter	*Etheostoma longimanum*
Longnose Dace	*Rhinichthys cataractae*
Longnose Gar	*Lepisosteus osseus*
Margined Madtom **	*Noturus insignis* **
Mimic Shiner	*Paranotropis volucellus*
Mirror Shiner	*Paranotropis spectrunculus*

Mottled Sculpin	*Cottus bairdii*
Mountain Brook Lamprey	*Ichthyomyzon greeleyi*
Mountain Madtom	*Noturus eleutherus*
Mountain Redbelly Dace **	*Chrosomus oreas **
Mountain Shiner	*Lythrurus lirus*
Mud Sunfish	*Acantharchus pomotis*
Muskellunge *	*Esox masquinongy *
New River Shiner	*Miniellus scabriceps*
Northern Hog Sucker	*Hypentelium nigricans*
Northern Pike	*Esox lucius*
Northern Snakehead *	*Channa argus *
Northern Studfish	*Fundulus catenatus*
Notchlip Redhorse **	*Moxostoma collapsum **
Ohio Lamprey	*Ichthyomyzon bdellium*
Orangefin Madtom **	*Noturus gilberti **
Paddlefish	*Polyodon spathula*
Piedmont Darter	*Percina crassa*
Pirate Perch	*Aphredoderus sayanus*
Popeye Shiner	*Notropis ariommus*
Potomac Sculpin	*Cottus girardi*
Pumpkinseed **	*Lepomis gibbosus **
Quillback	*Carpiodes cyprinus*
Rainbow Darter	*Etheostoma caeruleum*
Rainbow Trout *	*Onchorynchus mykiss *
Redbreast Sunfish **	*Lepomis auritus **
Redear Sunfish **	*Lepomis microlophus **
Redfin Pickerel	*Esox americanus americanus*
Redline Darter **	*Nothonotus rufilineatus **
Redlip Shiner **	*Hydrophlox chiliticus **
River Chub	*Nocomis micropogon*
River Redhorse	*Moxostoma carinatum*
Riverweed Darter	*Etheostoma podostemone*
Roanoke Bass	*Ambloplites cavifrons*
Roanoke Darter **	*Percina roanoka **
Roanoke Hogsucker **	*Hypentelium roanokense **
Roanoke Logperch	*Percina rex*
Rock Bass **	*Ambloplites rupestris **
Rosefin Shiner	*Lythrurus ardens*
Rosyface Shiner	*Notropis rubellus*

Rosyside Dace	*Clinostomus funduloides*
Roughhead Shiner	*Notropis semperasper*
Ruddy Bowfin	*Amia calva*
Rustyside Sucker	*Thoburnia hamiltoni*
Saffron Shiner	*Hydrophlox rubricroceus*
Sand Shiner	*Miniellus stramineus*
Sandbar Shiner	*Notropis scepticus*
Satinfin Shiner	*Cyprinella analostana*
Sauger	*Sander canadensis*
Sawcheek Darter	*Etheostoma serrifer*
Sawfin Shiner	*Paranotropis sp. cf. spectrunculus*
Scarlet Shiner	*Lythrurus fasciolaris*
Sharphead Darter	*Nothonotus acuticeps*
Sharpnose Darter	*Percina oxyrhynchus*
Shield Darter	*Percina peltata*
Shorthead Redhorse	*Moxostoma macrolepidotum*
Sickle Darter	*Percina williamsi*
Silver Redhorse	*Moxostoma anisurum*
Silver Shiner	*Notropis photogenis*
Silverjaw Minnow	*Ericymba buccata*
Slender Chub	*Erimystax cahni*
Smallmouth Bass **	*Micropterus dolomieu* **
Smallmouth Redhorse	*Moxostoma breviceps*
Snail Bullhead	*Ameiurus brunneus*
Snubnose Darter **	*Etheostoma simoterum* **
Speckled Killifish	*Fundulus rathbuni*
Spotfin Chub	*Erimonax monachus*
Spotfin Shiner **	*Cyprinella spiloptera* **
Spottail Shiner **	*Hudsonius hudsonius* **
Spotted Bass **	*Micropterus punctulatus* **
Stargazing Minnow	*Phenacobius uranops*
Steelcolor Shiner	*Cyprinella whipplei*
Stonecat	*Noturus flavus*
Streamline Chub	*Erimystax dissimilis*
Stripeback Darter	*Percina notogramma*
Striped Shiner	*Luxilus chrysocephalus*
Suckermouth Minnow	*Phenacobius mirabilis*
Swallowtail Shiner **	*Miniellus procne* **
Swamp Darter	*Etheostoma fusiforme*

Swampfish	*Chologaster cornuta*
Swannanoa Darter	*Etheostoma swannanoa*
Tadpole Madtom	*Noturus gyrinus*
Tangerine Darter	*Percina aurantiaca*
Telescope Shiner **	*Notropis telescopus* **
Tennessee Dace	*Chrosomus tennesseensis*
Tennessee Shiner	*Paranotropis leuciodus*
Tessellated Darter	*Etheostoma olmstedi*
Thicklip Chub	*Cyprinella labrosa*
Threadfin Shad	*Dorosoma petenense*
Threespine Stickleback	*Gasterosteus aculeatus*
Tonguetied Minnow	*Exoglossum laurae*
Torrent Sucker **	*Thoburnia rhothoeca* **
Variegate Darter	*Etheostoma variatum*
V-lip Redhorse	*Moxostoma pappillosum*
Walleye **	*Sander vitreus* **
Warmouth **	*Lepomis gulosus* **
Warpaint Shiner **	*Coccotis coccogenis* **
Western Blacknose Dace	*Rhinichthys obtusus*
Western Sand Darter	*Ammocrypta clara*
White Bass **	*Morone chrysops* **
White Catfish	*Ameiurus catus*
White Crappie	*Pomoxis annularis*
White Shiner	*Luxilus albeolus*
White Sucker	*Catostomus commersoni*
Whitemouth Shiner	*Miniellus alborus*
Whitetail Shiner **	*Cyprinella galactura* **
Wounded Darter	*Nothonotus vulneratus*
Yellow Bullhead	*Ameiurus natalis*
Yellowfin Madtom	*Noturus flavipinnis*
Diadromous (Migratory) and Semi-Diadromous Fishes:	
Alewife **	*Alosa pseudoharengus* **
American Eel	*Anguilla rostrata*
American Shad	*Alosa sapidissima*
Atlantic Sturgeon	*Acipenser oxyrinchus oxyrinchus*
Blueback Herring **	*Alosa aestivalis* **
Gizzard Shad **	*Dorosoma cepedianum* **

Hickory Shad	*Alosa mediocris*
Sea Lamprey	*Petromyzon marinus*
Shortnose Sturgeon	*Acipenser brevirostrum*
Striped Bass	*Morone saxatilis*
White Perch **	*Morone americana* **
Yellow Perch **	*Perca flavescens* **
Marine/Brackish Water Fishes (partial list):	
Atlantic Croaker	*Micropogonias undulatus*
Atlantic Cutlassfish	*Trichiurus lepturus*
Atlantic Menhaden	*Brevoortia tyrannus*
Atlantic Needlefish	*Strongylura marina*
Atlantic Silverside	*Menidia menidia*
Atlantic Spadefish	*Chaetodipterus faber*
Atlantic Thread Herring	*Opisthonema oglinum*
Bay Anchovy	*Anchoa mitchilli*
Bigeye Thresher Shark	*Alopias superciliosus*
Black Drum	*Pogonias cromis*
Black Sea Bass	*Centropristis striata*
Blackcheek Tonguefish	*Symphurus plagiusa*
Bluefin Tuna	*Thunnus thynnus*
Bluefish	*Pomatomus saltatrix*
Common Thresher Shark	*Alopias vulpinus*
Cownose Ray	*Rhinoptera bonasus*
Dusky Pipefish	*Syngnathus floridae*
Dusky Shark	*Carcharhinus obscurus*
Gray Snapper	*Lutjanus griseus*
Great Hammerhead	*Sphyrna mokarran*
Green Goby	*Microgobius thalassinus*
Harvestfish	*Peprilus paru*
Hogchoker	*Trinectes maculatus*
Inland Silverside	*Menidia beryllina*
Ladyfish	*Elops saurus*
Marsh Killifish	*Fundulus confluentus*
Mummichog	*Fundulus heteroclitus*
Naked Goby	*Gobiosoma bosc*
Northern Pipefish	*Syngnathus fuscus*
Northern Searobin	*Prionotus carolinus*

Oyster Toadfish	*Opsanus tau*
Pipefish	*Syngnathus sp.*
Red Drum	*Sciaenops ocellatus*
Rough Silverside	*Membras martinica*
Round Herring	*Etrumeus teres*
Sand Tiger Shark	*Carcharias taurus*
Sandbar Shark	*Carcharhinus plumbeus*
Scalloped Hammerhead	*Sphyrna lewini*
Sheepshead Minnow	*Cyprinodon variegatus*
Shortfin Mako Shark	*Isurus oxyrinchus*
Silky Shark	*Carcharhinus falciformis*
Silver Perch	*Bairdiella chrysoura*
Silver Seatrout	*Cynoscion nothus*
Skilletfish	*Gobiesox strumosus*
Smooth Hammerhead	*Sphyrna zygaena*
Southern Flounder	*Paralichthys lethostigma*
Southern Kingfish	*Menticirrhus americanus*
Spanish Mackerel	*Scomberomorus maculatus*
Spiny Dogfish	*Squalus acanthias*
Spot	*Leiostomus xanthurus*
Spotted Sea Trout	*Cynoscion nebulosus*
Striped Anchovy	*Anchoa hepsetus*
Striped Blenny	*Chasmodes bosquianus*
Striped Mullet	*Mugil cephalus*
Summer Flounder	*Paralichthys dentatus*
Tautog	*Tautoga onitis*
Tiger Shark	*Galeocerdo cuvier*
Weakfish (Gray Trout)	*Cynoscion regalis*
White Mullet	*Mugil curema*
White Shark	*Carcharodon carcharias*
Winter Skate	*Leucoraja ocellata*
AMPHIBIANS:	
Frogs & Toads:	
Atlantic Coast Leopard Frog	*Lithobates kauffeldi*
Barking Treefrog	*Dryophytes gratiosus*
Brimley's Chorus Frog	*Pseudacris brimleyi*

Carpenter Frog	*Lithobates virgatipes*
Coastal Plains Leopard Frog	*Lithobates sphenocephalus utricularius*
Cope's Gray Treefrog	*Dryophytes chrysoscelis*
Eastern American Toad	*Anaxyrus americanus americanus*
Eastern Cricket Frog	*Acris crepitans*
Eastern Narrow-mouthed Toad	*Gastrophryne carolinensis*
Eastern Spadefoot	*Scaphiopus holbrookii*
Fowler's Toad	*Anaxyrus fowleri*
Gray Treefrog	*Dryophytes versicolor*
Green Treefrog	*Dryophytes cinereus*
Little Grass Frog	*Pseudacris ocularis*
Mountain Chorus Frog	*Pseudacris brachyphona*
New Jersey Chorus Frog	*Pseudacris kalmi*
North American Bullfrog	*Lithobates catesbeianus*
North American Green Frog	*Lithobates clamitans*
Oak Toad	*Anaxyrus quercicus*
Pickerel Frog	*Lithobates palustris*
Pine Woods Treefrog	*Dryophytes femoralis*
Southern Chorus Frog	*Pseudacris nigrita*
Southern Cricket Frog	*Acris gryllus*
Southern Toad	*Anaxyrus terrestris*
Spring Peeper	*Pseudacris crucifer*
Squirrel Treefrog	*Dryophytes squirellus*
Upland Chorus Frog	*Pseudacris feriarum*
Wood Frog	*Lithobates sylvaticus*
Salamanders:	
Allegheny Mountain Dusky Salamander	*Desmognathus ochrophaeus*
Atlantic Coast Slimy Salamander	*Plethodon chlorobryonis*
Big Levels Salamander	*Plethodon sherando*
Black Mountain Salamander	*Desmognathus welteri*
Blacksburg Salamander	*Plethodon jacksoni*
Blue Ridge Dusky Salamander	*Desmogntathus orestes*
Blue Ridge Red Salamander	*Pseudotriton ruber nitidus*
Blue Ridge Spring Salamander	*Gyrinophilus porphyriticus danielsi*
Blue Ridge Two-lined Salamander	*Eurycea wilderae*
Carolina Swamp Dusky Salamander	*Desmognathus valtos*
Cave Salamander	*Eurycea lucifuga*

Cow Knob Salamander	*Plethodon punctatus*
Cumberland Plateau Salamander	*Plethodon kentucki*
Dixie Caverns Salamander	*Plethodon dixi*
Dwarf Waterdog	*Necturus punctatus*
Eastern Hellbender	*Cryptobranchus alleganiensis alleganiensis*
Eastern Long-tailed Salamander	*Eurycea longicauda longicauda*
Eastern Mud Salamander	*Pseudotriton montanus montanus*
Eastern Red-backed Salamander	*Plethodon cinereus*
Eastern Tiger Salamander	*Ambystoma tigrinum*
Flat-headed Salamander	*Desmognathus planiceps*
Four-toed Salamander	*Hemidactylium scutatum*
Greater Siren	*Siren lacertina*
Green Salamander	*Aneides aeneus*
Jefferson Salamander	*Ambystoma jeffersonianum*
Kanawha Black-bellied Salamander	*Desmognathus kanawha*
Kentucky Spring Salamander	*Gyrinophilus porphyriticus duryi*
Lesser Siren	*Siren intermedia*
Mabee's Salamander	*Ambystoma mabeei*
Many-lined Salamander	*Stereochilus marginatus*
Marbled Salamander	*Ambystoma opacum*
Midland Mud Salamander	*Pseudotriton montanus diastictus*
Mole Salamander	*Ambystoma talpoideum*
Mudpuppy	*Necturus maculosus*
Northern Dusky Salamander	*Desmognathus fuscus*
Northern Gray-cheeked Salamander	*Plethodon montanus*
Northern Pygmy Salamander	*Desmognathus organi*
Northern Red Salamander	*Pseudotriton ruber ruber*
Northern Seal Salamander	*Desmognathus monticola*
Northern Shovel-nosed Salamander	*Desmognathus marmoratus*
Northern Slimy Salamander	*Plethodon glutinosus*
Northern Spring Salamander	*Gyrinophilus porphyriticus porphyriticus*
Northern Two-lined Salamander	*Eurycea bislineata*
Peaks Of Otter Salamander	*Plethodon hubrichti*
Red-Spotted Newt	*Notophthalmus viridescens viridescens*
Sandhills Dusky Salamander	*Desmognathus bairdii*
Shenandoah Mountain Salamander	*Plethodon virginia*
Shenandoah Salamander	*Plethodon shenandoah*
Southern Ravine Salamander	*Plethodon richmondi*
Southern Two-lined Salamander	*Eurycea cirrigera*

Southern Zigzag Salamander	*Plethodon ventralis*
Spotted Salamander	*Ambystoma maculatum*
Three-Lined Salamander	*Eurycea guttolineata*
Two-toed Amphiuma	*Amphiuma means*
Valley And Ridge Salamander	*Plethodon hoffmani*
Wehrle's Salamander	*Plethodon wehrlei*
Weller's Salamander	*Plethodon welleri*
White-spotted Slimy Salamander	*Plethodon cylindraceus*
Wolf Dusky Salamander	*Desmognathus lycos*
Yellow-spotted Woodland Salamander	*Plethodon pauleyi*
Yonahlossee Salamander	*Plethodon yonahlossee*
REPTILES:	
Lizards:	
Broad-headed Skink	*Plestiodon laticeps*
Common Five-lined Skink	*Plestiodon fasciatus*
Eastern Fence Lizard	*Sceloporus undulatus*
Eastern Glass Lizard	*Ophisaurus ventralis*
Eastern Six-lined Racerunner	*Aspidoscelis sexlineatus sexlineatus*
Eastern Slender Glass Lizard	*Ophisaurus attenuatus longicaudus*
Green Anole *	*Anolis (Ctenocercus) carolinesis* *
Italian Wall Lizard *	*Podarcis siculus* *
Little Brown Skink	*Scincella lateralis*
Mediterranean Gecko *	*Hemidactylus turcicus* *
Moorish Gecko *	*Tarentola mauritanica* *
Northern Coal Skink	*Plestiodon anthracinus anthracinus*
Southeastern Five-lined Skink	*Plestiodon inexpectatus*
Snakes:	
Brahminy Blindsnake *	*Indotyphlops braminus* *
Brown Watersnake	*Nerodia taxispilota*
Canebrake Rattlesnake (Coastal Plain Population of Timber Rattlesnake)	*Crotalus horridus*
Central Ratsnake	*Pantherophis alleghaniensis*
Common Rainbow Snake	*Farancia erytrogramma erytrogramma*
Common Ribbonsnake	*Thamnophis saurita saurita*

Dekay's Brownsnake	*Storeria dekayi*
Eastern Black Kingsnake	*Lampropeltis nigra*
Eastern Copperhead	*Agkistrodon contortrix*
Eastern Gartersnake	*Thamnophis sirtalis sirtalis*
Eastern Glossy Swampsnake	*Liodytes rigida rigida*
Eastern Hog-nosed Snake	*Heterodon platirhinos*
Eastern Kingsnake	*Lampropeltis getula*
Eastern Milksnake	*Lampropeltis triangulum*
Eastern Mudsnake	*Farancia abacura abacura*
Eastern Pinesnake	*Pituophis melanoleucus*
Eastern Smooth Earthsnake	*Virginia valeriae valeriae*
Eastern Wormsnake	*Carphophis amoenus amoenus*
Mountain Earthsnake	*Virginia valeriae pulchra*
Northern Black Racer	*Coluber constrictor constrictor*
Northern Cottonmouth	*Agkistrodon piscivorus*
Northern Mole Kingsnake	*Lampropeltis rhombomaculata*
Northern Ring-necked Snake	*Diadophis punctatus edwardsii*
Northern Rough Greensnake	*Opheodrys aestivus*
Northern Scarletsnake	*Cemophora coccinea copei*
Northern Watersnake	*Nerodia sipedon sipedon*
Queensnake	*Regina septemvittata*
Red Cornsnake	*Pantherophis guttatus*
Red-bellied Snake	*Storeria occipitomaculata*
Red-bellied Watersnake	*Nerodia erythrogaster*
Rough Earthsnake	*Virginia striatula*
Scarlet Kingsnake	*Lampropeltis elapsoides*
Smooth Greensnake	*Opheodrys vernalis*
Southeastern Crowned Snake	*Tantilla coronata*
Southern Ring-necked Snake	*Diadophis punctatus punctatus*
Timber Rattlesnake	*Crotalus horridus*
Turtles:	
Bog (=Muhlenberg) Turtle	*Glyptemys (=Clemmys) muhlenbergii*
Chinese Softshell *	*Pelodiscus sinensis* *
Coastal Plain Cooter	*Pseudemys floridana*
Cumberland Slider	*Trachemys scripta troostii*
Eastern Chicken Turtle	*Deirochelys reticularia reticularia*
Eastern Musk Turtle	*Sternotherus odoratus*

Eastern Painted Turtle	*Chrysemys picta picta*
Eastern River Cooter	*Pseudemys concinna concinna*
Green Sea Turtle	*Chelonia mydas*
Gulf Coast Spiny Softshell *	*Apalone spinifera aspera* *
Hawksbill Sea Turtle	*Eretmochelys imbricata*
Kemp's Ridley Sea Turtle	*Lepidochelys kempii*
Leatherback Sea Turtle	*Dermochelys coriacea*
Loggerhead Sea Turtle	*Caretta caretta*
Midland Painted Turtle	*Chrysemys picta marginata*
Mississippi Map Turtle *	*Graptemys pseudogeographica kohnii* *
North American Snapping Turtle	*Chelydra serpentina*
Northern Diamondback Terrapin	*Malaclemys terrapin terrapin*
Northern Map Turtle	*Graptemys geographica*
Northern Red-bellied Cooter	*Pseudemys rubriventris*
Northern Spiny Softshell	*Apalone spinifera spinifera*
Red-eared Slider *	*Trachemys scripta elegans* *
Southeastern Mud Turtle	*Kinosternon subrubrum subrubrum*
Spotted Turtle	*Clemmys guttata*
Striped Mud Turtle	*Kinosternon baurii*
Stripe-necked Musk Turtle	*Sternotherus peltifer*
Wood Turtle	*Glyptemys insculpta*
Woodland Box Turtle	*Terrapene carolina carolina*
Yellow-bellied Slider**	*Trachemys scripta scripta***
BIRDS:	
Acadian Flycatcher	*Empidonax virescens*
Alder Flycatcher	*Empidonax alnorum*
American Avocet	*Recurvirostra americana*
American Barn Owl	*Tyto furcata*
American Bittern	*Botaurus lentiginosus*
American Black Duck	*Anas rubripes*
American Coot	*Fulica americana*
American Crow	*Corvus brachyrhynchos*
American Flamingo	*Phoenicopterus ruber*
American Golden-plover	*Pluvialis dominica*
American Goldfinch	*Spinus tristis*
American Goshawk	*Astur atricapillus*
American Herring Gull	*Larus smithsonianus*

American Kestrel	*Falco sparverius*
American Oystercatcher	*Haematopus palliatus*
American Pipit	*Anthus rubescens*
American Redstart	*Setophaga ruticilla*
American Robin	*Turdus migratorius*
American Tree Sparrow	*Spizelloides arborea*
American White Pelican	*Pelecanus erythrorhynchos*
American Wigeon	*Mareca americana*
American Woodcock	*Scolopax minor*
Anhinga	*Anhinga anhinga*
Arctic Loon	*Gavia arctica*
Arctic Peregrine Falcon	*Falco peregrinus tundrius*
Arctic Tern	*Sterna paradisaea*
Atlantic Puffin	*Fratercula arctica*
Bachman's Sparrow	*Peucaea (=Aimophila) aestivalis*
Baird's Sandpiper	*Calidris bairdii*
Bald Eagle	*Haliaeetus leucocephalus*
Baltimore Oriole	*Icterus galbula*
Bank Swallow	*Riparia riparia*
Barn Swallow	*Hirundo rustica*
Barnacle Goose	*Branta leucopsis*
Barred Owl	*Strix varia*
Bar-tailed Godwit	*Limosa lapponica*
Bay-breasted Warbler	*Setophaga castanea*
Belted Kingfisher	*Megaceryle alcyon*
Bewick's Wren	*Thryomanes bewickii*
Bicknell's Thrush	*Catharus bicknelli*
Black Scoter	*Melanitta americana*
Black Skimmer	*Rynchops niger*
Black Tern	*Chlidonias niger*
Black Vulture	*Coragyps atratus*
Black-and-white Warbler	*Mniotilta varia*
Black-bellied Plover	*Pluvialis squatarola*
Black-billed Cuckoo	*Coccyzus erythropthalmus*
Blackburnian Warbler	*Setophaga fusca*
Black-capped Chickadee	*Poecile atricapillus*
Black-capped Petrel	*Pterodroma hasitata*
Black-crowned Night-Heron	*Nycticorax nycticorax*
Black-headed Gull	*Chroicocephalus ridibundus*

Black-legged Kittiwake	*Rissa tridactyla*
Black-necked Stilt	*Himantopus mexicanus*
Blackpoll Warbler	*Setophaga striata*
Black-throated Blue Warbler	*Setophaga caerulescens*
Black-throated Gray Warbler	*Setophaga nigrescens*
Black-throated Green Warbler	*Setophaga virens*
Blue Grosbeak	*Passerina caerulea*
Blue Jay	*Cyanocitta cristata*
Blue-gray Gnatcatcher	*Polioptila caerulea*
Blue-headed Vireo	*Vireo solitarius*
Blue-Winged Teal	*Spatula discors*
Blue-winged Warbler	*Vermivora cyanoptera*
Boat-tailed Grackle	*Quiscalus major*
Bobolink	*Dolichonyx oryzivorus*
Bonaparte's Gull	*Chroicocephalus philadelphia*
Boreal Chickadee	*Poecile hudsonicus*
Brant	*Branta bernicla*
Brewer's Blackbird	*Euphagus cyanocephalus*
Brewster's (Golden-winged x Blue-winged) Warbler	*Vermivora chrysoptera* x *cyanoptera*
Bridled Tern	*Onychoprion anaethetus*
Broad-winged Hawk	*Buteo platypterus*
Brown Booby	*Sula leucogaster*
Brown Creeper	*Certhia americana*
Brown Pelican	*Pelecanus occidentalis*
Brown Thrasher	*Toxostoma rufum*
Brown-headed Cowbird	*Molothrus ater*
Brown-headed Nuthatch	*Sitta pusilla*
Buff-breasted Sandpiper	*Calidris subruficollis*
Bufflehead	*Bucephala albeola*
Cackling Goose	*Branta hutchinsii*
California Gull	*Larus californicus*
Canada Goose	*Branta canadensis*
Canada Warbler	*Cardellina canadensis*
Canvasback	*Aythya valisineria*
Cape May Warbler	*Setophaga tigrina*
Carolina Chickadee	*Poecile carolinensis*
Carolina Wren	*Thryothorus ludovicianus*
Caspian Tern	*Hydroprogne caspia*
Cave Swallow	*Petrochelidon fulva*

Cedar Waxwing	*Bombycilla cedrorum*
Cerulean Warbler	*Setophaga cerulea*
Chestnut-sided Warbler	*Setophaga pensylvanica*
Chimney Swift	*Chaetura pelagica*
Chipping Sparrow	*Spizella passerina*
Chuck-will's-widow	*Antrostomus carolinensis*
Clapper Rail	*Rallus crepitans*
Clay-colored Sparrow	*Spizella pallida*
Cliff Swallow	*Petrochelidon pyrrhonota*
Coastal Plain Swamp Sparrow	*Melospiza georgiana nigrescens*
Common Eider	*Somateria mollissima*
Common Gallinule	*Gallinula galeata*
Common Goldeneye	*Bucephala clangula*
Common Grackle	*Quiscalus quiscula*
Common Ground Dove	*Columbina passerina*
Common Gull	*Larus canus*
Common Loon	*Gavia immer*
Common Merganser	*Mergus merganser*
Common Nighthawk	*Chordeiles minor*
Common Raven	*Corvus corax*
Common Snipe	*Gallinago gallinago*
Common Tern	*Sterna hirundo*
Common Yellowthroat	*Geothlypis trichas*
Connecticut Warbler	*Oporornis agilis*
Cooper's Hawk	*Astur cooperii*
Cory's Shearwater	*Calonectris borealis*
Curlew Sandpiper	*Calidris ferruginea*
Dark-eyed Junco	*Junco hyemalis*
Dickcissel	*Spiza americana*
Double-crested Cormorant	*Nannopterum auritum*
Dovekie	*Alle alle*
Downy Woodpecker	*Dryobates pubescens*
Dunlin	*Calidris alpina hudsonia*
Eared Grebe	*Podiceps nigricollis*
Eastern Black Rail	*Laterallus jamaicensis jamaicensis*
Eastern Bluebird	*Sialia sialis*
Eastern Kingbird	*Tyrannus tyrannus*
Eastern Meadowlark	*Sturnella magna*
Eastern Phoebe	*Sayornis phoebe*

Eastern Screech-owl	*Megascops asio*
Eastern Towhee	*Pipilo erythrophthalmus*
Eastern Whip-poor-will	*Antrostomus vociferus*
Eastern Wood-pewee	*Contopus virens*
Elegant Tern	*Thalasseus elegans*
Eurasian Collared-dove *	*Streptopelia decaocto* *
Eurasian Wigeon	*Mareca penelope*
European Starling *	*Sturnus vulgaris* *
Evening Grosbeak	*Coccothraustes vespertinus*
Field Sparrow	*Spizella pusilla*
Fish Crow	*Corvus ossifragus*
Forster's Tern	*Sterna forsteri*
Fox Sparrow	*Passerella iliaca*
Franklin's Gull	*Leucophaeus pipixcan*
Fulvous Whistling-duck	*Dendrocygna bicolor*
Gadwall	*Mareca strepera*
Glaucous Gull	*Larus hyperboreus*
Glossy Ibis	*Plegadis falcinellus*
Golden Eagle	*Aquila chrysaetos*
Golden-crowned Kinglet	*Regulus satrapa*
Golden-winged Warbler	*Vermivora chrysoptera*
Golden-winged x Blue-Winged Warbler Hybrid	*Vermivora chrysoptera x cyanoptera*
Grasshopper Sparrow	*Ammodramus savannarum*
Gray Catbird	*Dumetella carolinensis*
Gray-cheeked Thrush	*Catharus minimus*
Great Black-backed Gull	*Larus marinus*
Great Blue Heron	*Ardea herodias*
Great Cormorant	*Phalacrocorax carbo*
Great Crested Flycatcher	*Myiarchus crinitus*
Great Egret	*Ardea alba*
Great Horned Owl	*Bubo virginianus*
Great Shearwater	*Ardenna gravis*
Great Skua	*Stercorarius skua*
Greater Scaup	*Aythya marila*
Greater White-fronted Goose	*Anser albifrons*
Greater Yellowlegs	*Tringa melanoleuca*
Green Heron	*Butorides virescens*
Green-winged Teal	*Anas crecca*
Gull-billed Tern	*Gelochelidon (=Sterna) nilotica*

Hairy Woodpecker	*Dryobates villosus*
Harlequin Duck	*Histrionicus histrionicus*
Harris' Sparrow	*Zonotrichia querula*
Henslow's Sparrow	*Centronyx (=Ammodramus) henslowii*
Hermit Thrush	*Catharus guttatus*
Hooded Merganser	*Lophodytes cucullatus*
Hooded Warbler	*Setophaga citrina*
Horned Grebe	*Podiceps auritus*
Horned Lark	*Eremophila alpestris*
House Finch	*Haemorhous mexicanus*
House Sparrow *	*Passer domesticus* *
House Wren	*Troglodytes aedon*
Hudsonian Godwit	*Limosa haemastica*
Iceland Gull	*Larus glaucoides*
Indigo Bunting	*Passerina cyanea*
Ivory Gull	*Pagophila eburnea*
Kentucky Warbler	*Geothlypis formosa*
Killdeer	*Charadrius vociferus*
King Eider	*Somateria spectabilis*
King Rail	*Rallus elegans*
Kirtland's Warbler	*Setophaga kirtlandii*
Lapland Longspur	*Calcarius lapponicus*
Lark Sparrow	*Chondestes grammacus*
Laughing Gull	*Leucophaeus atricilla*
Lawrence's (Blue-winged x Golden-winged) Warbler	*Vermivora cyanoptera* x *chrysoptera*
Leach's Storm-petrel	*Hydrobates leucorhous*
Least Bittern	*Botaurus exilis*
Least Flycatcher	*Empidonax minimus*
Least Sandpiper	*Calidris minutilla*
Least Tern	*Sternula antillarum*
Leconte's Sparrow	*Ammospiza leconteii*
Lesser Black-backed Gull	*Larus fuscus*
Lesser Scaup	*Aythya affinis*
Lesser Yellowlegs	*Tringa flavipes*
Limpkin	*Aramus guarauna*
Lincoln's Sparrow	*Melospiza lincolnii*
Little Blue Heron	*Egretta caerulea*
Little Gull	*Hydrocoloeus minutus*
Loggerhead Shrike	*Lanius ludovicianus*

Long-billed Curlew	*Numenius americanus*
Long-billed Dowitcher	*Limnodromus scolopaceus*
Long-eared Owl	*Asio otus*
Long-tailed Duck	*Clangula hyemalis*
Long-tailed Jaeger	*Stercorarius longicaudus*
Louisiana Waterthrush	*Parkesia motacilla*
Magnificent Frigatebird	*Fregata magnificens*
Magnolia Warbler	*Setophaga magnolia*
Mallard	*Anas platyrhynchos*
Mallard X Black Duck Hybrid	*Anas platyrhynchos x rubripes*
Manx Shearwater	*Puffinus puffinus*
Marbled Godwit	*Limosa fedoa*
Marsh Wren	*Cistothorus palustris*
Merlin	*Falco columbarius*
Migrant Loggerhead Shrike	*Lanius ludovicianus migrans*
Mississippi Kite	*Ictinia mississippiensis*
Monk Parakeet *	*Myiopsitta monachus* *
Mountain Plover	*Charadrius montanus*
Mourning Dove	*Zenaida macroura*
Mourning Warbler	*Geothlypis philadelphia*
Nashville Warbler	*Leiothlypis ruficapilla*
Nelson's Sparrow	*Ammospiza nelsoni*
Northern Bobwhite	*Colinus virginianus*
Northern Cardinal	*Cardinalis cardinalis*
Northern Flicker	*Colaptes auratus*
Northern Fulmar	*Fulmarus glacialis*
Northern Gannet	*Morus bassanus*
Northern Harrier	*Circus hudsonius*
Northern Mockingbird	*Mimus polyglottos*
Northern Parula	*Setophaga americana*
Northern Pintail	*Anas acuta*
Northern Rough-winged Swallow	*Stelgidopteryx serripennis*
Northern Saw-whet Owl	*Aegolius acadicus*
Northern Shoveler	*Spatula clypeata*
Northern Shrike	*Lanius borealis*
Northern Waterthrush	*Parkesia noveboracensis*
Olive-sided Flycatcher	*Contopus cooperi*
Orange-crowned Warbler	*Leiothlypis celata*
Orchard Oriole	*Icterus spurius*

Osprey	*Pandion haliaetus*
Ovenbird	*Seiurus aurocapilla*
Painted Bunting	*Passerina ciris*
Palm Warbler	*Setophaga palmarum*
Parasitic Jaeger	*Stercorarius parasiticus*
Pectoral Sandpiper	*Calidris melanotos*
Peregrine Falcon	*Falco peregrinus*
Philadelphia Vireo	*Vireo philadelphicus*
Pied-billed Grebe	*Podilymbus podiceps*
Pileated Woodpecker	*Dryocopus pileatus*
Pine Grosbeak	*Pinicola enucleator*
Pine Siskin	*Spinus pinus*
Pine Warbler	*Setophaga pinus*
Piping Plover	*Charadrius melodus*
Pomarine Jaeger	*Stercorarius pomarinus*
Prairie Warbler	*Setophaga discolor*
Prothonotary Warbler	*Protonotaria citrea*
Purple Finch	*Haemorhous purpureus*
Purple Gallinule	*Porphyrio martinicus*
Purple Martin	*Progne subis*
Purple Sandpiper	*Calidris maritima*
Razorbill	*Alca torda*
Red Crossbill	*Loxia curvirostra*
Red Phalarope	*Phalaropus fulicarius*
Red-bellied Woodpecker	*Melanerpes carolinus*
Red-breasted Merganser	*Mergus serrator*
Red-breasted Nuthatch	*Sitta canadensis*
Red-cockaded Woodpecker	*Dryobates borealis*
Reddish Egret	*Egretta rufescens*
Red-eyed Vireo	*Vireo olivaceus*
Redhead	*Aythya americana*
Red-headed Woodpecker	*Melanerpes erythrocephalus*
Red-necked Grebe	*Podiceps grisegena*
Red-necked Phalarope	*Phalaropus lobatus*
Redpoll	*Acanthis flammea*
Red-shouldered Hawk	*Buteo lineatus*
Red-tailed Hawk	*Buteo jamaicensis*
Red-throated Loon	*Gavia stellata*
Red-winged Blackbird	*Agelaius phoeniceus*

Ring-billed Gull	*Larus delawarensis*
Ring-necked Duck	*Aythya collaris*
Rock Pigeon *	*Columba livia* *
Roseate Tern	*Sterna dougallii dougallii*
Rose-breasted Grosbeak	*Pheucticus ludovicianus*
Ross's Goose	*Anser rossii*
Rough-legged Hawk	*Buteo lagopus*
Royal Tern	*Thalasseus maximus*
Ruby-crowned Kinglet	*Corthylio calendula*
Ruby-throated Hummingbird	*Archilochus colubris*
Ruddy Duck	*Oxyura jamaicensis*
Ruddy Turnstone	*Arenaria interpres*
Rufa Red Knot	*Calidris canutus rufa*
Ruff	*Calidris pugnax*
Ruffed Grouse	*Bonasa umbellus*
Rufous Hummingbird	*Selasphorus rufus*
Rusty Blackbird	*Euphagus carolinus*
Sabine's Gull	*Xema sabini*
Saltmarsh Sparrow	*Ammospiza caudacuta*
Sanderling	*Calidris alba*
Sandhill Crane	*Antigone canadensis*
Sandwich Tern	*Thalasseus sandvicensis*
Sargasso Shearwater	*Puffinus lherminieri*
Savannah Sparrow	*Passerculus sandwichensis*
Savannah Sparrow (Ipswich subspecies)	*Passerculus sandwichensis princeps*
Scarlet Tanager	*Piranga olivacea*
Scissor-tailed Flycatcher	*Tyrannus forficatus*
Seaside Sparrow	*Ammospiza maritima*
Sedge Wren	*Cistothorus stellaris*
Semipalmated Plover	*Charadrius semipalmatus*
Semipalmated Sandpiper	*Calidris pusilla*
Sharp-shinned Hawk	*Accipiter striatus*
Sharp-tailed Sandpiper	*Calidris acuminata*
Short-billed Dowitcher	*Limnodromus griseus*
Short-eared Owl	*Asio flammeus*
Snow Bunting	*Plectrophenax nivalis*
Snow Goose	*Anser caerulescens*
Snowy Egret	*Egretta thula*
Snowy Owl	*Bubo scandiacus*

Solitary Sandpiper	*Tringa solitaria*
Song Sparrow	*Melospiza melodia*
Sooty Shearwater	*Ardenna grisea*
Sooty Tern	*Onychoprion fuscatus*
Sora	*Porzana carolina*
Southern Swamp Sparrow	*Melospiza georgiana georgiana*
Spotted Sandpiper	*Actitis macularius*
Stilt Sandpiper	*Calidris himantopus*
Summer Tanager	*Piranga rubra*
Surf Scoter	*Melanitta perspicillata*
Swainson's Thrush	*Catharus ustulatus*
Swainson's Warbler	*Limnothlypis swainsonii*
Swallow-tailed Kite	*Elanoides forficatus*
Swamp Sparrow	*Melospiza georgiana*
Tennessee Warbler	*Leiothlypis peregrina*
Thick-billed Murre	*Uria lomvia*
Tree Swallow	*Tachycineta bicolor*
Tricolored Heron	*Egretta tricolor*
Tufted Titmouse	*Baeolophus bicolor*
Tundra Swan	*Cygnus columbianus*
Turkey Vulture	*Cathartes aura*
Upland Sandpiper	*Bartramia longicauda*
Varied Thrush	*Ixoreus naevius*
Veery	*Catharus fuscescens*
Vesper Sparrow	*Pooecetes gramineus*
Virginia Rail	*Rallus limicola*
Warbling Vireo	*Vireo gilvus*
Wayne's Warbler	*Setophaga virens waynei*
Western Cattle-Egret	*Ardea ibis*
Western Grebe	*Aechmophorus occidentalis*
Western Kingbird	*Tyrannus verticalis*
Western Sandpiper	*Calidris mauri*
Western Tanager	*Piranga ludoviciana*
Whimbrel	*Numenius phaeopus*
White Ibis	*Eudocimus albus*
White-breasted Nuthatch	*Sitta carolinensis*
White-cheeked Pintail	*Anas bahamensis*
White-crowned Sparrow	*Zonotrichia leucophrys*
White-eyed Vireo	*Vireo griseus*

White-faced Ibis	*Plegadis chihi*
White-rumped Sandpiper	*Calidris fuscicollis*
White-tailed Tropicbird	*Phaethon lepturus*
White-throated Sparrow	*Zonotrichia albicollis*
White-winged Crossbill	*Loxia leucoptera*
White-winged Scoter	*Melanitta deglandi*
White-winged Tern	*Chlidonias leucopterus*
Wild Turkey	*Meleagris gallopavo*
Willet (Eastern)	*Tringa semipalmata semipalmata*
Willet (Western)	*Tringa semipalmata inornata*
Willow Flycatcher	*Empidonax traillii*
Wilson's Phalarope	*Phalaropus tricolor*
Wilson's Plover	*Anarhynchus (=Charadrius) wilsonia*
Wilson's Snipe	*Gallinago delicata*
Wilson's Storm-Petrel	*Oceanites oceanicus*
Wilson's Warbler	*Cardellina pusilla*
Winter Wren	*Troglodytes hiemalis*
Wood Duck	*Aix sponsa*
Wood Stork	*Mycteria americana*
Wood Thrush	*Hylocichla mustelina*
Worm-eating Warbler	*Helmitheros vermivorum*
Yellow Rail	*Coturnicops noveboracensis*
Yellow Warbler	*Setophaga petechia*
Yellow-bellied Flycatcher	*Empidonax flaviventris*
Yellow-bellied Sapsucker	*Sphyrapicus varius*
Yellow-billed Cuckoo	*Coccyzus americanus*
Yellow-breasted Chat	*Icteria virens*
Yellow-crowned Night Heron	*Nyctanassa violacea*
Yellow-headed Blackbird	*Xanthocephalus xanthocephalus*
Yellow-nosed Albatross	*Thalassarche chlororhynchos*
Yellow-rumped Warbler	*Setophaga coronata*
Yellow-throated Vireo	*Vireo flavifrons*
Yellow-throated Warbler	*Setophaga dominica*
MAMMALS:	
Allegheny Woodrat	*Neotoma magister*
American Beaver	*Castor canadensis*
American Black Bear	*Ursus americanus*

American Mink	*Neogale vison vison*
American Pygmy Shrew	*Sorex hoyi*
American Water Shrew	*Sorex palustris*
Appalachian Cottontail	*Sylvilagus obscurus*
Big Brown Bat	*Eptesicus fuscus fuscus*
Black Rat * (=Roof Rat, = House Rat)	*Rattus rattus* *
Black-tailed Jack Rabbit *	*Lepus californicus* *
Bobcat	*Lynx rufus rufus*
Brazilian Free-tailed Bat	*Tadarida brasiliensis cynocephala*
Carolina Northern Flying Squirrel	*Glaucomys sabrinus coloratus*
Common Gray Fox	*Urocyon cinereoargenteus*
Common Muskrat	*Ondatra zibethicus*
Cotton Mouse	*Peromyscus gossypinus*
Coyote *	*Canis latrans* *
Deer Mouse	*Peromyscus maniculatus*
Delmarva Peninsula Fox Squirrel	*Sciurus niger cinereus*
Dismal Swamp Short-tailed Shrew	*Blarina brevicauda telmalestes*
Dismal Swamp Southeastern Shrew	*Sorex longirostris fisheri*
Eastern Chipmunk	*Tamias striatus*
Eastern Cottontail	*Sylvilagus floridanus*
Eastern Fox Squirrel	*Sciurus niger*
Eastern Gray Squirrel	*Sciurus carolinensis*
Eastern Harvest Mouse	*Reithrodontomys humulis*
Eastern Mole	*Scalopus aquaticus aquaticus*
Eastern Red Bat	*Lasiurus borealis*
Eastern Shrew	*Sorex cinereus fontinalis*
Eastern Small-footed Myotis	*Myotis leibii*
Eastern Spotted Skunk	*Spilogale putorius putorius*
Elk	*Cervus elaphus*
Evening Bat	*Nycticeius humeralis humeralis*
Fisher	*Pekania pennanti*
Golden Mouse	*Ochrotomys nuttalli*
Gray Bat	*Myotis grisescens*
Hairy-tailed Mole	*Parascalops breweri*
Hispid Cotton Rat	*Sigmodon hispidus*
Hoary Bat	*Lasiurus cinereus*
House Mouse *	*Mus musculus* *
Indiana Bat	*Myotis sodalis*
Least Shrew	*Cryptotis parva*

Least Weasel	*Mustela nivalis rixosa*
Little Brown Bat	*Myotis lucifugus*
Long-tailed (=Rock) Shrew	*Sorex dispar*
Long-tailed Weasel	*Neogale frenata frenata*
Marsh Rabbit	*Sylvilagus palustris palustris*
Marsh Rice Rat	*Oryzomys palustris*
Masked Shrew	*Sorex cinereus cinereus*
Meadow Jumping Mouse	*Zapus hudsonius*
Meadow Vole	*Microtus pennsylvanicus*
Nine-banded Armadillo *	*Dasypus novemcinctus* *
North American Porcupine	*Erethizon dorsatum*
Northern Long-eared Bat	*Myotis septentrionalis*
Northern Raccoon	*Procyon lotor lotor*
Northern River Otter	*Lontra canadensis lataxina*
Northern Short-tailed Shrew	*Blarina brevicauda*
Northern Yellow Bat	*Lasiurus intermedius*
Norway Rat *	*Rattus norvegicus* *
Nutria *	*Myocastor coypus* *
Pungo White-footed Mouse	*Peromyscus leucopus easti*
Rafinesque's Big-eared Bat	*Corynorhinus rafinesquii rafinesquii*
Rafinesque's Eastern Big-eared Bat	*Corynorhinus rafinesquii macrotis*
Red Fox	*Vulpes vulpes*
Red Squirrel	*Tamiasciurus hudsonicus*
Rock Vole	*Microtus chrotorrhinus*
Seminole Bat	*Lasiurus seminolus*
Sika Deer *	*Cervus nippon* *
Silver-haired Bat	*Lasionycteris noctivagans*
Small Eastern Flying Squirrel (Species level common name = Southern Flying Squirrel)	*Glaucomys volans volans*
Smoky Shrew	*Sorex fumeus*
Snowshoe Hare	*Lepus americanus virginianus*
Southeastern Flying Squirrel (Species level common name = Southern Flying Squirrel)	*Glaucomys volans saturatus*
Southeastern Myotis	*Myotis austroriparius*
Southern Bog Lemming	*Synaptomys cooperi*
Southern Red-backed Vole	*Myodes gapperi*
Southern Short-tailed Shrew	*Blarina carolinensis*
Southern Shrew	*Sorex longirostris longirostris*
Star-nosed Mole	*Condylura cristata cristata*
Striped Skunk	*Mephitis mephitis*

Tri-colored (=Tricolored) Bat	*Perimyotis subflavus*
Virginia Big-eared Bat	*Corynorhinus (= Plecotus) townsendii virginianus*
Virginia Northern Flying Squirrel	*Glaucomys sabrinus fuscus*
Virginia Opossum	*Didelphis virginiana virginiana*
White-footed Mouse	*Peromyscus leucopus*
White-tailed Deer	*Odocoileus virginianus*
Woodchuck	*Marmota monax*
Woodland Jumping Mouse	*Napaeozapus insignis*
Woodland Vole	*Microtus pinetorum*
MARINE MAMMALS:	
Antillean Beaked Whale	*Mesoplodon europaeus*
Atlantic Spotted Dolphin	*Stenella frontails*
Atlantic White-sided Dolphin	*Lagenorhynchus acutus*
Blue Whale	*Balaenoptera musculus*
Bottlenose Dolphin	*Tursiops truncatus*
Common Minke Whale	*Balaenoptera acutorostrada*
Dense-beaked Whale	*Mesoplodon densirostris*
Dwarf Sperm Whale	*Kogia simus*
Eden's Whale	*Balaenoptera edeni*
False Killer Whale	*Pseudorca crassidens*
Finback Whale	*Baleanoptera physalus*
Goose-beaked Whale	*Ziphius cavirostris*
Grampus	*Grampus griseus*
Harbor Porpoise	*Phocoena phocoena*
Harbor Seal	*Phoca vitulina vitulina*
Humpback Whale	*Megaptera novaeangliae*
Killer Whale	*Orcinus orca*
Long-finned Pilot Whale	*Globicephala melas*
North Atlantic Right Whale	*Eubalaena glacialis*
Pygmy Sperm Whale	*Kogia breviceps*
Rough-toothed Dolphin	*Steno bredanensis*
Saddleback Dolphin	*Delphinus delphis*
Sei Whale	*Balaenoptera borealis*
Short-finned Pilot Whale	*Globicephala macrorhynchus*
Sperm Whale	*Physeter catodon (=macrocephalus)*
Spinner Dolphin	*Stenella longirostris*
Striped Dolphin	*Stenella caeruleoalba*

True's Beaked Whale	*Mesoplodon mirus*
West Indian Manatee	*Trichechus manatus*
MOLLUSKS:	
Freshwater Mussels:	
Alewife Floater	*Utterbackiana implicata*
Appalachia Pearlymussel	*Pleuronaia estabrookianus*
Appalachian Rockshell	*Theliderma sparsa*
Atlantic Pigtoe	*Fusconaia masoni*
Atlantic Spike	*Elliptio producta*
Birdwing Pearlymussel	*Lemiox rimosus*
Black Sandshell	*Ligumia recta*
Box Spike	*Elliptio cistellaeformis*
Brook Floater	*Alasmidonta varicosa*
Carolina Lance	*Elliptio angustata*
Carolina Slabshell	*Elliptio congaraea*
Cracking Pearlymussel	*Hemistena lata*
Creeper	*Strophitus undulatus*
Cumberlandian Combshell	*Epioblasma brevidens*
Cumberland Moccasinshell	*Medionidus conradicus*
Cumberland Rockshell	*Theliderma intermedia*
Deertoe	*Truncilla truncata*
Dromedary Pearlymussel	*Dromus dromas*
Dwarf Wedgemussel	*Prolasmidonta heterodon*
Eastern Elliptio	*Elliptio complanata*
Eastern Floater	*Pyganodon cataracta*
Eastern Lampmussel	*Lampsilis radiata*
Eastern Pondhorn	*Uniomerus carolinianus*
Eastern Pondmussel	*Sagittunio nasutus*
Elephantear	*Elliptio crassidens*
Elktoe	*Alasmidonta marginata*
Fanshell	*Cyprogenia stegaria*
Fatmucket	*Lampsilis siliquoidea*
Finerayed Pigtoe	*Fusconaia cuneolus*
Fluted Kidneyshell	*Ptychobranchus subtentus*
Flutedshell	*Lasmigona costata*
Fragile Papershell	*Potamilus fragilis*

Giant Floater	*Pyganodon grandis*
Golden Riffleshell (=Tan Riffleshell)	*Epioblasma aureola (=Epioblasma florentina walkeri (=E. walkeri))*
Green Floater	*Platynaias subviridis*
James Spinymussel	*Parvaspina collina*
Kidneyshell	*Ptychobranchus fasciolaris*
Lilliput *	*Toxolasma parvum* *
Littlewing Pearlymussel	*Pegias fabula*
Longsolid	*Fusconaia subrotunda*
Mountain Creekshell	*Leaunio vanuxemensis*
Mucket	*Ortmanniana ligamentina*
Northern Lance	*Elliptio fisheriana*
Notched Rainbow	*Venustaconcha constricta*
Ohio Pigtoe	*Pleurobema cordatum*
Oyster Mussel	*Epioblasma capsaeformis*
Paper Pondshell	*Utterbackia imbecillis*
Pheasantshell	*Lampsilis pectorosa*
Pimpleback	*Pustulosa pustulosa*
Pink Heelsplitter	*Potamilus alatus*
Pink Mucket (Pearlymussel)	*Lampsilis abrupta*
Pistolgrip	*Quadrula verrucosa*
Plain Pocketbook *	*Lampsilis cardium* *
Pocketbook	*Lampsilis ovata*
Purple Lilliput	*Toxolasma lividum*
Purple Wartyback	*Cyclonaias tuberculata*
Rabbitsfoot (=Rough Rabbitsfoot)	*Theliderma cylindrica (=Quadrula cylindrica strigillata)*
Rainbow	*Cambarunio iris*
Rayed Bean	*Paetulunio fabalis (Villosa fabalis)*
Roanoke Slabshell	*Elliptio roanokensis*
Rough Pigtoe	*Pleurobema plenum*
Round Pigtoe (=Pyramid Pigtoe)	*Pleurobema sintoxia (=P. rubrum)*
Sheepnose	*Plethobasus cyphyus*
Shiny Pigtoe	*Fusconaia cor*
Slabside Pearlymussel	*Pleuronaia dolabelloides*
Slippershell Mussel	*Pressodonta viridis*
Snuffbox	*Epioblasma triquetra*
Spectaclecase	*Cumberlandia monodonta*
Spike	*Eurynia dilatata*
Tennessee Bean (=Purple Bean)	*Venustaconcha trabalis (=Villosa perpurpurea)*

Tennessee Clubshell	*Pleurobema oviforme*
Tennessee Heelsplitter	*Alasminota holstonia*
Tennessee Pigtoe	*Pleuronaia barnesiana*
Threeridge	*Amblema plicata*
Tidewater Mucket	*Atlanticoncha ochracea*
Triangle Floater	*Alasmidonta undulata*
Variable Spike	*Elliptio icterina*
Wavyrayed Lampmussel	*Lampsilis fasciola*
Yellow Lampmussel	*Lampsilis cariosa*
Yellow Lance	*Elliptio lanceolata*
SNAILS:	
Freshwater Snails:	
Appalachian Rocksnail	*Leptoxis subglobosa*
Ash Gyro	*Gyraulus parvus*
Banded Mysterysnail	*Callinina georgianus*
Big-eared Radix*	*Radix auricularia**
Blue Ridge Elimia	*Elimia shenandoa*
Blue Ridge Springsnail	*Fontigens orolibas*
Boreal Marstonia	*Marstonia lustrica*
Bottle Hornsnail	*Pleurocera gradata*
Brown Walker	*Pomatiopsis cincinnatiensis*
Buffalo Pebblesnail	*Gillia altilis*
Bugle Sprite	*Menetus dilatatus*
Carolina Physa	*Physa carolinae*
Chinese Mysterysnail*	*Margarya chinensis**
Claiborne Physa	*Physella pomilia*
Club Elimia	*Elimia clavaeformis*
Coal Elimia	*Elimia aterina*
Creeping Ancylid	*Ferrissia rivularis*
Crested Mudalia	*Leptoxis carinata*
Disc Sprite	*Dilatata brogniartiana*
Dusky Ancylid	*Laevapex fuscus*
Dusky Fossaria	*Galba dalli*
Ebony Elimia	*Elimia ebenum*
Excentric Ancylid	*Hebetancylus excentricus*
Flexed Gyro	*Gyraulus deflectus*

Fragile Ancylid	*Ferrissia californica*
Golden Fossaria	*Galba obrussa*
Graceful Fossaria	*Galba exigua*
Gravel Elimia	*Elimia catenaria*
Henscomb Hydrobe	*Littoridinops tenuipes*
Japanese Mysterysnail*	*Heterogen japonica**
Lance Aplexa	*Sibirenauta elongata*
Lapped Elimia	*Elimia dislocata*
Marsh Fossaria	*Galba humilis*
Marsh Ramshorn	*Planorbella trivolvis*
Mimic Lymnaea	*Pseudosuccinea columella*
Morrison's Springsnail	*Fontigens morrisoni*
Mud Amnicola	*Amnicola limosus*
Mud Bithynia*	*Bithynia tentaculata**
Organ Cavesnail	*Fontigens tartarea*
Pagoda Hornsnail	*Pleurocera uncialis*
Panhandle Pebblesnail	*Somatogyrus virginicus*
Piedmont Elimia	*Elimia virginica*
Piedmont Pondsnail	*Ladislavella neopalustris*
Pointed Campeloma	*Campeloma decisum*
Potomac Springsnail	*Fontigens bottimeri*
Pygmy Fossaria	*Galba parva*
Rigid Lioplax	*Lioplax subcarinata*
Seep Mudalia	*Leptoxis dilatata*
Shale Pebblesnail	*Somatogyrus pennsylvanicus*
Sharp Sprite	*Promenetus exacuous*
Sharp-crest Elimia	*Elimia carinifera*
Silty Hornsnail	*Pleurocera canaliculata*
Skyline Caverns Snail	*Holsingeria sp. 1*
Slender Walker	*Pomatiopsis lapidaria*
Smooth Elimia	*Elimia simplex*
Smooth Mudalia	*Leptoxis virgata*
Spider Elimia	*Elimia arachnoidea*
Spiny Riversnail	*Io fluvialis*
Sprite Elimia	*Elimia proxima*
Squat Duskysnail	*Lyogyrus granum*
Tadpole Physa	*Physella gyrina*
Thankless Ghostsnail	*Holsingeria unthanksensis*
Thicklip Ramshorn	*Planorbula armigera*

Threeridge Valvata	*Valvata tricarinata*
Two-ridge Ramshorn	*Helisoma anceps*
Two-ridge Valvata	*Valvata bicarinata*
Wandering Physa	*Physella acuta*
Watercress Snail	*Fontigens nickliniana*
Wrinkled Marshsnail	*Hinkleyia caperata*
Land Snails:	
Alabama Threetooth	*Triodopsis alabamensis*
Amber Glass	*Perpolita electrina*
Angular Disc	*Discus catskillensis*
Appalachian Pillar	*Cochlicopa morseana*
Appalachian Thorn	*Carychium clappi*
Appalachian Tigersnail (= Appalachian Disc)	*Anguispira mordax*
Armed Snaggletooth	*Gastrocopta armifera*
Atlantic Threetooth	*Triodopsis juxtidens*
Baffled Threetooth	*Triodopsis fraudulenta*
Balsam Globe	*Mesodon andrewsae*
Banded Globe	*Anguispira kochi*
Bark Snaggletooth	*Gastrocopta corticaria*
Barred Supercoil	*Paravitrea seradens*
Bidentate Dome	*Ventridens coelaxis*
Big-tooth Whitelip	*Neohelix dentifera*
Black Gloss	*Zonitoides nitidus*
Black Mantleslug	*Pallifera hemphilli*
Black Mountain Disc	*Discus nigrimontanus*
Black Striate	*Striatura ferrea*
Blade Vertigo	*Vertigo milium*
Blind Awlsnail	*Ceciliodes acicula*
Blotchy Mantleslug	*Megapallifera wetherbyi*
Bluegrass Snaggletooth	*Gastrocopta clappi*
Blunt Ambersnail	*Oxyloma retusum*
Bottleneck Snaggletooth	*Gastrocopta contracta*
Bright Glyph	*Glyphyalinia wheatleyi*
Brilliant Glyph	*Glyphyalinia praecox*
Bristled Slitmouth	*Stenotrema barbatum*
Broad-banded Forestsnail	*Allogona profunda*
Bronze Pinecone	*Strobilops aeneus*

Brown Bellytooth	*Gastrodonta interna*
Brown Garden Snail	*Cornu aspersum*
Brown Globelet	*Inflectarius kalmianus*
Brown Hive	*Euconulus fulvus*
Brown Spot	*Punctum blandianum*
Brown-spotted Mantleslug	*Philomycus venustus*
Brown Supercoil	*Paravitrea septadens*
Budded Threetooth	*Triodopsis tennesseensis*
Buttressed Threetooth	*Triodopsis rugosa*
Capital Vertigo	*Vertigo oscariana*
Carinate Slitmouth	*Stenotrema spinosum*
Carolina Mantleslug	*Philomycus carolinianus*
Carter Threetooth	*Triodopsis anteridon*
Carved Glyph	*Glyphyalinia indentata*
Cellar Glass-snail*	*Oxychilus cellarius**
Changeable Mantleslug	*Megapallifera mutabilis*
Cherrystone Drop	*Hendersonia occulta*
Chesapeake Ambersnail	*Oxyloma subeffusum*
Clingman Covert	*Fumonelix wheatleyi clingmanicus*
Coastal-Plain Ambersnail	*Oxyloma effusum (=salleanum)*
Coastal Plain Disk	*Anguispira fergusoni*
Coastal Whitelip	*Neohelix solemi*
Comb Snaggletooth	*Gastrocopta pentodon*
Comb Supercoil	*Paravitrea dentilla*
Compound Coil	*Helicodiscus parallelus*
Copper Button Snail	*Mesomphix cupreus*
Copper Dome	*Ventridens theloides*
Costate Vallonia	*Vallonia costata*
Crested Snaggletooth	*Gastrocopta cristata*
Cricket Coil	*Helicodiscus hadenoecus*
Cumberland Liptooth	*Daedalocila plicata*
Cupped Vertigo Snail	*Vertigo clappi*
Dark-bodied Glass-snail*	*Oxychilus draparnaudi**
Decollate Snail*	*Rumina decollata**
Deep-tooth Shagreen	*Inflectarius rugeli*
Dentate Supercoil	*Paravitrea multidentata*
Depressed Glyph	*Glyphyalinia virginica*
Detritus Ambersnail	*Mediappendix oklahomarum*
Dimple Supercoil	*Paravitrea capsella*

Dished Threetooth	*Triodopsis vulgata*
Domed Disc	*Discus patulus*
Dusky Arion*	*Arion subfuscus**
Dusky Button	*Mesomphix capnodes*
Dusky Mantleslug	*Philomycus batchi*
Eastern Melampus	*Melampus bidentatus*
Fat Hive	*Euconulus polygyratus*
File Thorn	*Carychium nannodes*
Fine-ribbed Striate	*Striatura milium*
Five-tooth Vertigo Snail	*Vertigo ventricosa*
Forest Disc	*Discus whitneyi*
Foster Mantleslug	*Pallifera fosteri*
Flamed Disk	*Anguispira alternata*
Flat Bladetooth	*Patera appressa*
Flat Button	*Mesomphix subplanus*
Flat Dome	*Ventridens suppressus*
Forest Disc	*Discus whitneyi*
Foster Mantleslug	*Pallifera fosteri*
Funnel Supercoil	*Paravitrea mira*
Furrowed Glyph	*Glyphyalinia luticola*
Garden Arion *	*Arion hortensis **
Giant Gardenslug *	*Limax maximus **
Glass Spot	*Punctum vitreum*
Glassy Grapeskin	*Vitrinizonites latissimus*
Globose Dome	*Ventridens ligera*
Glossy Covert	*Fumonelix christyi*
Glossy Dome	*Ventridens acerra*
Glossy Pillar	*Cochlicopa lubrica*
Glossy Supercoil	*Paravitrea placentula*
Golden Ambersnail	*Succinea wilsonii*
Golden Dome	*Ventridens arcellus*
Graceful Awlsnail	*Allopeas gracile*
Grand Globe	*Mesodon normalis*
Gray-foot Lancetooth	*Haplotrema concavum*
Grayfoot Mantleslug	*Philomycus bisdosus*
Green Dome	*Zonitoides elliotti*
Greenhouse Slug	*Milax gagates*
Grey Fieldslug	*Deroceras reticulatum*
Grovesnail	*Cepaea nemoralis*

Hairy Slitmouth	*Stenotrema hirsutum*
Hedgehog Arion	*Arion intermedius*
Highland Slitmouth	*Stenotrema altispira*
High-spire Column Snail	*Columella simplex*
Hill Glyph	*Glyphyalinia cumberlandiana*
Hollow Dome	*Ventridens lasmodon*
Honey Vertigo Snail	*Vertigo tridentata*
Ice Thorn	*Carychium exile*
Inland Slitmouth	*Stenotrema stenotrema*
Iroquois Vallonia	*Vallonia excentrica*
Lambda Snaggletooth	*Gastrocopta holzingeri*
Lamellate Spot	*Punctum smithi*
Lamellate Supercoil	*Paravitrea lamellidens*
Lovely Vallonia	*Vallonia pulchella*
Lowland Pillsnail	*Euchemotrema leai*
Magnolia Threetooth	*Triodopsis hopetonensis*
Malleated Vertigo	*Vertigo malleata*
Maryland Glyph	*Glyphyalinia raderi*
Maze Pinecone	*Strobilops labyrinthicus*
Meadow Slug	*Deroceras laeve*
Median Striate	*Striatura meridionalis*
Mimic Threetooth	*Triodopsis fallax*
Miniature Awlsnail *	*Subulina octona* *
Minute Gem	*Hawaiia minuscula*
Mountain Disc	*Anguispira jessica*
Mouse Ear Snail	*Myosotella myosotis*
Mudbank Ambersnail	*Mediappendix vagans*
Natural Bridge Supercoil	*Paravitrea pontis*
Northern Threetooth	*Triodopsis tridentata*
Nubbin Three-Tooth	*Triodopsis obsoleta*
Obese Thorn	*Carychium exiguum*
Oldfield Coil	*Lucilla scintilla*
Oval Ambersnail	*Novisuccinea ovalis*
Ovate Vertigo	*Vertigo ovata*
Pale Glyph	*Glyphyalinia lewisiana*
Pale Mantleslug	*Pallifera dorsalis*
Palmetto Vertigo	*Vertigo oralis*
Perforate Dome	*Ventridens demissus*
Pinhole Threetooth	*Triodopsis messana*

Pittsylvania Threetooth	*Triodopsis burchi*
Plain Button	*Mesomphix inornatus*
Proud Globe	*Mesodon elevatus*
Pygmy Slitmouth	*Stenotrema pilula*
Pygmy Vertigo	*Vertigo pygmaea*
Pyramid Dome	*Ventridens intertextus*
Quick Gloss	*Zonitoides arboreus*
Ribbed Striate	*Pseudohyalinia exigua*
Ridge-And-Valley Slitmouth	*Stenotrema edvardsi*
Rotund Disc	*Discus rotundatus*
Round Supercoil	*Paravitrea reesei*
Rounded Dome	*Ventridens lawae*
Rubble Coil	*Helicodiscus lirellus*
Rust Glyph	*Glyphyalinia picea*
Sawtooth Disc	*Discus bryanti*
Sculpted Glyph	*Glyphyalinia rhoadsi*
Sculptured Dome	*Ventridens collisella*
Sealed Globelet	*Mesodon mitchellianus*
Severed Mantleslug	*Pallifera secreta*
Shaggy Coil	*Helicodiscus diadema*
Shagreen	*Inflectarius inflectus*
Sharp Awlsnail	*Opeas pyrgula*
Shrew Supercoil	*Paravitrea blarina*
Silk Hive	*Euconulus trochulus*
Slender Supercoil	*Paravitrea subtilis*
Slim Snaggletooth	*Gastrocopta pellucida*
Small Spot	*Punctum minutissimum*
Smallmouth Vertigo	*Vertigo parvula*
Smooth Bladetooth	*Patera laevior*
Smooth Button	*Mesomphix perlaevis*
Smooth Coil	*Lucilla singleyana*
Snowhill Ambersnail	*Mediappendix hubrichti*
Solid Glyph	*Glyphyalinia solida*
Southeastern Gem	*Hawaiia alachuana*
Southeastern Whitelip	*Neohelix major*
Southern Pinecone	*Strobilops texasianus*
Spike-lip Crater	*Appalachina sayana*
Spiral Mountain Glyph	*Glyphyalinia carolinensis*
Spirit Supercoil	*Paravitrea hera*

Split-tooth Dome	*Ventridens virginicus*
Spruce Knob Threetooth	*Triodopsis picea*
Sterki's Granule	*Guppya sterkii*
Suborb Glyph	*Glyphyalinia sculptilis*
Suboval Ambersnail	*Mediappendix vermeta*
Swamp Vertigo	*Vertigo teskeyae*
Talus Coil	*Helicodiscus triodus*
Tapered Vertigo	*Vertigo elatior*
Temperate Coil	*Helicodiscus shimeki*
Thin Glyph	*Glyphyalinia cryptomphala*
Thin Pillar	*Cochlicopa lubricella*
Thin-lip Vallonia	*Vallonia perspectiva*
Threeband Gardenslug (=Valencia Slug) *	*Ambigolimax valentianus* *
Throaty Dome	*Ventridens gularis*
Tight Coil	*Helicodiscus notius*
Tiny Liptooth	*Lobosculum pustuloides*
Toga Mantleslug	*Philomycus togatus*
Toothed Globe	*Mesodon zaletus*
Toothed Hive	*Euconulus dentatus*
Trumpet Vallonia	*Vallonia parvula*
Twilight Coil	*Helicodiscus multidens*
Upland Pillsnail	*Euchemotrema fraternum*
Variable Mantleslug	*Pallifera varia*
Variable Vertigo	*Vertigo gouldi*
Velvet Wedge	*Xolotrema denotatum*
Vineyard Snail	*Cernuella virgata*
Virginia Bladetooth	*Patera panselenus*
Virginia Fringed Mountain Snail	*Polygyriscus virginianus*
Virginia Mantleslug	*Philomycus virginicus*
Wax Dome	*Ventridens cerinoideus*
White Snaggletooth	*Gastrocopta tappaniana*
Whitelip	*Neohelix albolabris*
White-lip Dagger Snail	*Pupoides albilabris*
White-lip Gardensnail *	*Cepaea hortensis* *
White-lip Globe	*Mesodon thyroidus*
Wild Hive	*Euconulus chersinus*
Winding Mantleslug	*Philomycus flexuolaris*
Wing Snaggletooth	*Gastrocopta procera*
Woody Mantleslug	*Pallifera megaphallica*

Wrinkled Button	*Mesomphix rugeli*
Wrinkled Helicellid	*Xeroplexa intersecta*
Yellow Dome	*Ventridens pilsbryi*
Yellow Globelet	*Mesodon clausus*
Freshwater Fingernailclams:	
Adams Peaclam	*Euglesa adamsii*
Chinese Basket Clam *	*Corbicula fluminea* *
Greater Eastern Peaclam	*Pisidium dubium*
Grooved Fingernailclam	*Sphaerium simile*
Herrington Fingernailclam	*Sphaerium occidentale*
Lake Fingernailclam	*Sphaerium lacustre*
Long Fingernailclam	*Sphaerium transversum*
Mottled Fingernailclam	*Eupera cubensis*
Perforated Peaclam	*Pisidium punctatum*
Pond Fingernailclam	*Sphaerium securis*
Ridgebeak Peaclam	*Euglesa compressa*
River Fingernailclam	*Sphaerium fabale*
Round Peaclam	*Euglesa equilateralis*
Shiny Peaclam	*Euglesa nitida*
Striated Fingernailclam	*Sphaerium striatinum*
Swamp Fingernailclam	*Sphaerium partumeium*
Triangular Peaclam	*Euglesa variabilis*
Ubiquitous Peaclam	*Euglesa casertana*
Walker Peaclam	*Euglesa walkeri*
Marine/Brackish Water Mollusks (partial):	
Common Atlantic Slippersnail	*Crepidula fornicata*
Convex Slippersnail	*Crepidula convexa*
Eastern Oyster	*Crassostrea virginica*
Hooked Mussel	*Ischadium recurvum*
Ribbled Mussel	*Geukensia demissa*
CRUSTACEANS:	
Freshwater Crayfish:	

Acuminate Crayfish	*Cambarus acuminatus*
Allegheny Crayfish	*Faxonius obscurus*
Allegheny Mountain Mudbug	*Cambarus fetzneri*
Angled Crayfish	*Cambarus angularis*
Appalachian Brook Crayfish	*Cambarus bartonii cavatus*
Atlantic Slope Crayfish	*Cambarus longulus*
Big Sandy Crayfish	*Cambarus callainus*
Big Stone Crayfish	*Cambarus magerae*
Big Water Crayfish	*Cambarus robustus*
Chowanoke Crayfish	*Faxonius virginiensis*
Coalfields Crayfish	*Cambarus theepiensis*
Common Crayfish	*Cambarus bartonii bartonii*
Conhaway Crayfish	*Cambarus appalachiensis*
Devil Crawfish	*Lacunicambarus diogenes*
Digger Crayfish	*Creaserinus fodiens*
Longnose Crayfish	*Cambarus longirostris*
New River Crayfish	*Cambarus chasmodactylus*
Ozark Crayfish*	*Faxonius ozarkae**
Red Swamp Crawfish *	*Procambarus clarkii **
Reticulate Crayfish	*Faxonius erichsonianus*
Rock Crawfish	*Cambarus carinirostris*
Rusty Crayfish *	*Faxonius rusticus **
Sanborn's Crayfish*	*Faxonius sanbornii**
Southern White River Crawfish*	*Procambarus zonangulus**
Spiny Scale Crayfish	*Cambarus jezerinaci*
Spiny Stream Crayfish**	*Faxonius cristavarius***
Spinycheek Crayfish	*Faxonius limosus*
Surgeon Crayfish	*Faxonius forceps*
Tug Valley Crayfish	*Cambarus hatfieldi*
Upland Burrowing Crayfish	*Cambarus dubius*
Virile Crayfish *	*Faxonius virilis **
White River Crawfish	*Procambarus acutus*
<u>Other Crustaceans (partial):</u>	
Alleghany County Cave Amphipod	*Stygobromus hoffmani*
Amphipod, No Common Name	*Crangonyx acicularis*
Appalachian Valley Cave Amphiod	*Crangonyx antennatus*
Bath County Cave Amphipod	*Stygobromus mundus*

Big Levels Spring Amphipod	*Stygobromus sp. 18*
Big White Amphipod	*Crangonyx gracilis*
Bigger's Cave Amphipod	*Stygobromus biggersi*
Bland County Amphipod	*Crangonyx fontinalis*
Blue Ridge Mountain Amphipod	*Stygobromus spinosus*
Burnsville Cove Cave Amphipod	*Stygobromus conradi*
Capital Area Groundwater Amphipod	*Stygobromus sextarius*
Cave Amphipod (Bath, Highland Co.), No Common Name	*Stygobromus sp. 20*
Cave Amphipod (Botetourt County), No Common Name	*Stygobromus sp. 10*
Cave Amphipod (Nelson County), No Common Name	*Stygobromus sp. 11*
Cave Amphipod (Patrick County), No Common Name	*Stygobromus sp. 13*
Cave Amphipod (Rockbridge County), No Common Name	*Stygobromus sp. 12*
Cave Amphipod (Scott Co.), No Common Name	*Stygobromus sp. 19*
Cave Amphipod (Shenandoah County), No Common Name	*Stygobromus sp. 9*
Clam Shrimp, No Common Name	*Eulimnadia sp. 1*
Copepod, No Common Name	*Acanthocyclops brevispinosus*
Copepod, No Common Name	*Acanthocyclops robustus s.l.*
Craig County Cave Amphipod	*Stygobromus estesi*
Cumberland Cave Amphipod	*Stygobromus cumberlandus*
Cumberland Gap Cave Amphipod	*Bactrurus angulus*
Cumberland Gap Cave Isopod	*Caecidotea cumberlandensis*
Cumberland Isopod	*Caecidotea sp. 7*
Dismal Swamp Isopod	*Caecidotea attenuatus*
Eastern Fairy Shrimp	*Eubranchipus vernalis*
Eastern Grass Shrimp	*Palaemonetes paludosus*
Ephemeral Cave Amphipod	*Stygobromus ephemerus*
Finley's Cave Amphipod	*Stygobromus finleyi*
Freshwater Amphipod, No Common Name	*Crangonyx montanus*
Grayson Crayfish Ostracod	*Ascetoethere cosmeta*
Greenbriar Valley Cave Isopod	*Caecidotea holsingeri*
Groundwater Amphipod, No Common Name	*Stygobromus sp. 15*
Helseley's Cave Amphipod	*Stygobromus sp. 16*
Henrot's Cave Isopod	*Caecidotea henroti*
Holman Fairy Shrimp	*Eubranchipus holmanii*
Hupp's Hill Cave Amphipod	*Stygobromus hubbardi*
Incurved Cave Isopod	*Caecidotea incurva*
James Cave Amphipod	*Stygobromus abditus*

Lancaster County Amphipod	*Crangonyx baculispina*
Lee County Cave Amphipod	*Stygobromus leensis*
Lee County Cave Isopod	*Lirceus usdagalun*
Lee County Terrestrial Cave Isopod	*Ligidium elrodii leensis*
Luray Caverns Amphipod	*Stygobromus pseudospinosus*
Madison Cave Amphipod	*Stygobromus stegerorum*
Madison Cave Isopod	*Antrolana lira*
Massanutten Spring Amphipod	*Stygobromus sp. 17*
Maus' Cave Isopod	*Caecidotea mausi*
Montgomery County Cave Amphipod	*Stygobromus fergusoni*
Morrisons's Cave Amphipod	*Stygobromus morrisoni*
Mount Rogers Groundwater Amphipod	*Stygobromus sp. 8*
Natural Bridge Cave Isopod	*Caecidotea bowmani*
New Castle Murder Hole Amphipod	*Stygobromus interitus*
Northern Spring Amphipod	*Gammarus pseudolimnaeus*
Northern Virginia Well Amphipod	*Stygobromus phreaticus*
Ohio Shrimp	*Macrobrachium ohione*
Phreatic Isopod	*Caecidotea phreatica*
Pittsylvania Well Amphipod	*Stygobromus obrutus*
Pizzini's Amphipod	*Stygobromus pizzinii*
Potomac Groundwater Amphipod	*Stygobromus tenuis*
Powell Valley Terrestrial Cave Isopod	*Amerigoniscus henroti*
Price's Cave Isopod	*Caecidotea pricei*
Racovitza's Terrestrial Cave Isopod	*Miktoniscus racovitzae*
Rappahannock Spring Amphipod	*Stygobromus foliatus*
Rock Creek Groundwater Amphipod	*Stygobromus kenki*
Rockbridge County Cave Amphipod	*Stygobromus baroodyi*
Round Hill Cave Amphipod	*Stygobromus mausi*
Rye Cove Isopod	*Lirceus culveri*
Scott County Terrestrial Cave Isopod	*Ligidium elrodii scottensis*
Shenandoah Mountain Spring Amphipod	*Stygobromus sp. 23*
Shenandoah Valley Cave Amphipod	*Stygobromus gracilipes*
Sherando Spinosoid Amphipod	*Stygobromus sp. 7*
Southwestern Virginia Cave Amphipod	*Stygobromus mackini*
Southwestern Virginia Cave Isopod	*Caecidotea recurvata*
Tennessee Valley Cave Isopod	*Caecidotea richardsonae*
Tidewater Amphipod	*Stygobromus indentatus*
Tidewater Interstitial Amphipod	*Stygobromus araeus*
Vandel's Cave Isopod	*Caecidotea vandeli*

Marine/Brackish Water Crustaceans (partial):	
Atlantic Ghost Crab	*Ocypode quadrata*
Black-fingered Mud Crab	*Panopeus herbstii*
Blue Crab	*Callinectes sapidus*
Daggerblade Grass Shrimp	*Palaemonetes pugio*
Flatback Mud Crab	*Eurypanopeus depressus*
Harris Mud Crab	*Rhithropanopeus harrisii*
Sand Shrimp	*Crangon septemspinosa*
Sand-dollar Pea Crab	*Dissoodactylus mellitae*
Say Mud Crab	*Dyspanopeus sayi*
Skeleton Shrimp	*Caprella sp.*
Squatter Pea Crab	*Tumidotheres maculates*
MILLIPEDES (PARTIAL):	
Aeto Millipede	*Conotyla aeto*
Big Cedar Creek Millipede	*Brachoria falcifera*
Blowing Rock Millipede	*Cleidogona medialis*
Brooks Millipede	*Dixioria brooksi*
Cedar Millipede	*Brachoria cedra*
Celeno Millipede	*Conotyla celeno*
Cerberus Cave Millipede	*Pseudotremia cerberus*
Collinwood Millipede	*Brachoria mendota*
Culver's Cave Millipede	*Pseudotremia culveri*
Devault's Cave Millipede	*Pseudotremia inexpectata*
Duke Forest Xystodesmid	*Nannaria conservata*
Ellett Valley Pseudotremia	*Pseudotremia cavernarum*
Faithful Millipede	*Cleidogona fidelitor*
Ferguson's Cave Millipede	*Pseudotremia fergusoni*
Fisher Cave Millipede	*Pseudotremia piscator*
Harpoon Cave Millipede	*Pseudotremia jaculohamatum*
Hoffman's Cleidogonid Millipede	*Cleidogona hoffmani*
Hoffman's Xystodesmid Millipede	*Brachoria hoffmani*
Holsinger's Cave Millipede	*Pseudotremia johnholsingeri*
Hubbard's Cave Millipede	*Pseudotremia hubbardi*
Hungry Mother Millipede	*Brachoria ethotela*
Jones' Saltpetre Cave Millipede	*Pseudotremia salifodina*

Keeton's Millipede	*Brachoria laminata*
Laurel Creek Xystodesmid	*Sigmoria whiteheadi*
Loomis' Rough-backed Millipede	*Pseudotremia loomisi*
Mcgraw Gap Xystodesmid	*Nannaria ericacea*
Melinda Millipede	*Conotyla melinda*
Millipede (Elm Hill), No Common Name	*Aniulus sp. 1*
Millipede, No Common Name	*Abacion tesselatum*
Millipede, No Common Name	*Andrognathus corticarius*
Millipede, No Common Name	*Aniulus orientalis*
Millipede, No Common Name	*Aniulus sp. 1*
Millipede, No Common Name	*Apheloria tigana*
Millipede, No Common Name	*Apheloria virginiensis montana*
Millipede, No Common Name	*Apheloria virginiensis virginiensis*
Millipede, No Common Name	*Auturus erythropygos*
Millipede, No Common Name	*Boraria infesta*
Millipede, No Common Name	*Brachoria dentata*
Millipede, No Common Name	*Brachoria insolita*
Millipede, No Common Name	*Brachoria separanda*
Millipede, No Common Name	*Brachoria separanda calcaria*
Millipede, No Common Name	*Brachoria separanda hamata*
Millipede, No Common Name	*Brachoria separanda versicolor*
Millipede, No Common Name	*Brachycybe lecontii*
Millipede, No Common Name	*Buotus carolinus*
Millipede, No Common Name	*Cambala hubrichtii*
Millipede, No Common Name	*Cambala minor*
Millipede, No Common Name	*Chaetaspis albus*
Millipede, No Common Name	*Cherokia georgiana latassa*
Millipede, No Common Name	*Cleidogona lachesis*
Millipede, No Common Name	*Conotyla sp. 1*
Millipede, No Common Name	*Desmonus earlei*
Millipede, No Common Name	*Dixioria pela coronata (=D. coronata)*
Millipede, No Common Name	*Dixioria fowleri*
Millipede, No Common Name	*Euryurus leachi fraternus*
Millipede, No Common Name	*Gyalostethus monticolens*
Millipede, No Common Name	*Nannaria morrisoni*
Millipede, No Common Name	*Nannaria simplex*
Millipede, No Common Name	*Nannaria wilsoni*
Millipede, No Common Name	*Nopoiulus kochi*
Millipede, No Common Name	*Okeanobates americanus*

Millipede, No Common Name	*Onomeris underwoodi*
Millipede, No Common Name	*Orinisobates nigrior*
Millipede, No Common Name	*Petaserpes rosalbus*
Millipede, No Common Name	*Petaserpes strictus*
Millipede, No Common Name	*Polyzonium rosalbum*
Millipede, No Common Name	*Polyzonium strictum*
Millipede, No Common Name	*Pseudopolydesmus paludicolous*
Millipede, No Common Name	*Pseudotremia alecto*
Millipede, No Common Name	*Pseudotremia armesi*
Millipede, No Common Name	*Pseudotremia deprehendor*
Millipede, No Common Name	*Pseudotremia hobbsi*
Millipede, No Common Name	*Pseudotremia momus*
Millipede, No Common Name	*Pseudotremia nodosa*
Millipede, No Common Name	*Pseudotremia princeps*
Millipede, No Common Name	*Pseudotremia sublevis*
Millipede, No Common Name	*Pseudotremia tuberculata*
Millipede, No Common Name	*Pseudotremia valga*
Millipede, No Common Name	*Rudiloria kleinpeteri*
Millipede, No Common Name	*Rudiloria trimaculata tortua*
Millipede, No Common Name	*Scytonotus virginicus*
Millipede, No Common Name	*Semionellus placidus*
Millipede, No Common Name	*Sigmoria latior latior*
Millipede, No Common Name	*Striaria causeyae*
Millipede, No Common Name	*Striaria columbiana*
Millipede, No Common Name	*Striaria granulosa*
Millipede, No Common Name	*Striaria sp. a*
Millipede, No Common Name	*Thalassisobates littoralis*
Millipede, No Common Name	*Trichomeris sinuata*
Millipede, No Common Name	*Trichopetalum dux*
Millipede, No Common Name	*Trichopetalum lunatum*
Millipede, No Common Name	*Trichopetalum packardi*
Millipede, No Common Name	*Trichopetalum weyeriensis*
Millipede, No Common Name	*Trichopetalum whitei*
Millipede, No Common Name	*Uroblaniulus canadensis*
Millipede, No Common Name	*Uroblaniulus jerseyi*
Millipede (Burkes Garden), No Common Name	*Uroblaniulus sp. 1*
Millipede, No Common Name	*Virgoiulus minutus*
Orndorff's Cave Millipede	*Pseudotremia orndorffi*
Powell Mountain Millipede Sp 1	*Brachoria sp. 1*

Powell Mountain Millipede Sp 2	*Brachoria sp. 2*
Pumpkin-headed Cave Millipede	*Pseudotremia peponocranium*
Relictual Appalachian Millipede	*Rhysodesmus restans*
Roaring Branch Nannaria Millipede	*Nannaria sp. 1*
Roaring Branch Rough-backed Millipede	*Pseudotremia fremens*
Rye Cove Cave Millipede	*Pseudotremia ryensis*
Shenandoah Mountain Xystodesmid	*Nannaria shenandoah*
Smith Creek Xystodesmid	*Nannaria laminata*
Turner's Millipede	*Brachoria turneri*
Twisted-Gonopod Cave Millipede	*Pseudotremia contorta*
Venetia Millipede	*Conotyla venetia*
CENTIPEDES (PARTIAL):	
Centipede, Montane	*Escaryus cryptorobius*
Centipede, No Common Name	*Escaryus ethopus*
Centipede, No Common Name	*Nampabius turbator*
Centipede, Whitetop Mountain	*Escaryus orestes*
INSECTS (PARTIAL):	
Buterflies & Moths:	
Aaron's Skipper	*Poanes aaroni*
Ailanthus Webworm Moth	*Atteva punctella*
American Copper	*Lycaena phlaeas*
American Lady	*Vanessa virginiensis*
American Snout	*Libytheana carinenta*
Angus' Underwing	*Catocala angusi*
Aphrodite Fritillary	*Speyeria aphrodite*
Appalachian Azure	*Celastrina neglectamajor*
Appalachian Brown	*Satyrodes appalachia*
Appalachian Grizzled Skipper	*Pyrgus wyandot*
Apple Sphinx	*Sphinx gordius*
Aralia Shoot Borer Moth	*Papaipema araliae*
Army Cutworm	*Euxoa auxiliaris*
Armyworm, No Common Name	*Pseudaletia unipuncta*
Arogos Skipper	*Atrytone arogos*
Ash Sphinx	*Manduca jasminearum*

Aster Borer Moth	*Papaipema impecuniosa*
Asteroid Moth	*Cucullia asteroides*
Atlantic Graphic Moth	*Drasteria graphica atlantica*
Atlantis Fritillary	*Speyeria atlantis*
Attentive Dart Moth	*Eueretagrotis attenta*
Aureolaria Seed Borer	*Pyrrhia aurantiago*
Azalea Sphinx	*Darapsa myron*
Baltimore Checkerspot	*Euphydryas phaeton*
Banded Hairstreak	*Satyrium calanus*
Banded Tussock Moth	*Halysidota tessellaris*
Barred Itame Moth	*Itame subcessaria*
Barred Yellow	*Eurema daira*
Barrens Dagger Moth	*Acronicta albarufa*
Barrens Itame	*Macaria (=Speranza) exonerata*
Beautiful Eutelia Moth	*Eutelia pulcherrima*
Bina Flower Moth	*Schinia bina*
Black Arches	*Melanchra assimilis*
Black Cutworm	*Agrotis ipsilon*
Black Dash	*Euphyes conspicua*
Black Swallowtail	*Papilio polyxenes*
Black Zipzag	*Panthea acronyctoides*
Black-dashed Hydriomena Moth	*Hydriomena divisaria*
Blinded Sphinx	*Paonias excaecatus*
Blueberry Gray	*Glena cognataria*
Bordered Apamea Moth	*Apamea finitima*
Boreal Fan Moth	*Brachionycha borealis*
Boston Dart Moth	*Euxoa bostoniensis*
Bracken Fern Borer Moth	*Papaipema pterisii*
Brazilian Skipper	*Calpodes ethlius*
Bristly Cutworm Moth	*Lacinipolia renigera*
Broad-lined Erastria Moth	*Erastria coloraria*
Broad-winged Skipper	*Poanes viator*
Bronze Copper	*Lycaena hyllus*
Brown Elfin	*Callophrys augustinus*
Brown Flower Moth	*Schinia saturata*
Brown Pine Looper Moth	*Caripeta angustiorata*
Brown-lined Dart Moth	*Anaplectoides brunneomedia*
Buchholz's Gray Moth	*Hypomecis buchholzaria*
Buck Moth	*Hemileuca maia*

Cabbage White *	*Pieris rapae*
Cane Apamea Moth	*Apamea sp. 1*
Cane Moth, No Common Name	*Apameini new genus 1, sp. 1*
Cane Moth, No Common Name	*Apameini new genus 2, sp. 1*
Cane Moth, No Common Name	*Apameini new genus 2, sp. 2*
Cane Moth, No Common Name	*Apameini new genus 2, sp. 3*
Cane Moth, No Common Name	*Argillophora furcilla*
Cane Moth, No Common Name	*Franclemontia interrogans*
Cane Moth, No Common Name	*Leucania calidior*
Cane-boring Moth	*Acrapex relicta*
Carolina Road-skipper	*Amblyscirtes carolina*
Carolina Satyr	*Hermeuptychia sosybius*
Carolina Sphinx	*Manduca sexta*
Carus Skipper	*Polites carus*
Catalpa Sphinx	*Ceratomia catalpae*
Cecropia Silkmoth	*Hyalophora cecropia*
Chain Fern Borer Moth	*Papaipema stenocelis*
Checkered White	*Pontia protodice*
Chestnut Leaf Miner Moth	*Tischeria perplexa*
Chocolate Moth	*Acherdoa ferraria*
Clouded Skipper	*Lerema accius*
Clouded Sulphur	*Colias philodice*
Cloudless Sulphur	*Phoebis sennae*
Cobweb Skipper	*Hesperia metea*
Colona Moth	*Haploa colona*
Columbine Duskywing	*Erynnis lucilius*
Common Buckeye	*Junonia coenia*
Common Checkered-skipper	*Pyrgus communis*
Common Road-skipper	*Amblyscirtes vialis*
Common Sootywing	*Pholisora catullus*
Common Wood-nymph	*Cercyonis pegala*
Comstock's Sallow	*Feralia comstocki*
Coneflower Borer Moth	*Papaipema nelita*
Confused Cloudywing	*Thorybes confusis*
Consort Underwing	*Catocala consors sorsconi*
Coral Hairstreak	*Satyrium titus*
Creole Pearly-eye	*Enodia creola*
Crossline Skipper	*Polites origenes*
Currant Spanworm Moth	*Speranza ribearia*

Cypress Moth, No Common Name	*Cutina aluticolor*
Cypress Moth, No Common Name	*Cutina distincta*
Cypress Sphinx	*Isoparce cupressi*
Dagger Moth, No Common Name	*Acronicta brumosa*
Dagger Moth, No Common Name	*Acronicta tristis*
Dainty Sulphur	*Nathalis iole*
Dark Homochlodes Moth	*Homochlodes disconventa*
Dark Stoneroot Borer Moth	*Papaipema duplicata*
Dart Moth, No Common Name	*Euxoa declarata*
Dart Moth, No Common Name	*Euxoa fumalis*
Dart Moth, No Common Name	*Euxoa obeliscoides*
Dart Moth, No Common Name	*Pseudohermonassa tenuicula*
Delaware Skipper	*Anatrytone logan*
Delightful Bird-dropping Moth	*Acontia delecta*
Diana Fritillary	*Speyeria diana*
Dimorphic Eulithis Moth	*Eulithis molliculata*
Dingy Cutworm	*Feltia ducens*
Dion Skipper	*Euphyes dion*
Doll's Merolonch	*Merolonche dolli*
Dotted Skipper	*Hesperia attalus*
Double-banded Zale Moth	*Zale calycanthata*
Dreamy Duskywing	*Erynnis icelus*
Duke's Skipper	*Euphyes dukesi*
Dun Skipper	*Euphyes vestris*
Dusky Azure	*Celastrina nigra (=ebinina)*
Dusky Road-skipper	*Amblyscirtes alternata*
Dusted Skipper	*Atrytonopsis hianna*
Early Hairstreak	*Erora laeta*
Eastern Comma	*Polygonia comma*
Eastern Pine Elfin	*Callophrys niphon*
Eastern Tailed-blue	*Everes comyntas*
Eastern Tiger Swallowtail	*Papilio glaucus*
Edwards' Hairstreak	*Satyrium edwardsii*
Elfin Emerald	*Nemoria elfa*
Elm Sphinx	*Ceratomia amyntor*
Emerald Moth, No Common Name	*Nemoria mimosaria*
Eufala Skipper	*Lerodea eufala*
European Skipper *	*Thymelicus lineola*
Falcate Orangetip	*Anthocharis midea*

Fall Cankerworm	*Alsophila pometaria*
Fall Webworm	*Hyphantria cunea*
Fiery Skipper	*Hylephila phyleus*
Figwort Borer Moth	*Hydraecia stramentosa*
Fillet Dart Moth	*Euxoa redimicula*
Fingered Dagger Moth	*Acronicta dactylina*
Five-spotted Hawk Moth	*Manduca quinquemaculata*
Flower Moth, No Common Name	*Schinia nubila*
Flower Moth, No Common Name	*Schinia siren*
Four-lined Cabera Moth	*Cabera quadrifasciaria*
Four-lined Chocolate Moth	*Argyrostrotis quadrifilaris*
Franck's Sphinx	*Sphinx franckii*
Fraser Fir Geometrid	*Semiothisa fraserata*
Frosted Elfin	*Callophrys irus*
Funerary Dagger Moth	*Acronicta funeralis*
Gemmed Satyr	*Cyllopsis gemma*
Geometrid Moth, No Common Name	*Anticlea vasiliata*
Geometrid Moth, No Common Name	*Cyclophora myrtaria*
Geometrid Moth, No Common Name	*Cymatophora approximaria*
Geometrid Moth, No Common Name	*Dysstroma citrata*
Geometrid Moth, No Common Name	*Euchlaena marginaria*
Geometrid Moth, No Common Name	*Euchlaena muzaria*
Geometrid Moth, No Common Name	*Hydriomena bistriolata*
Geometrid Moth, No Common Name	*Idaea tacturata*
Geometrid Moth, No Common Name	*Iridopsis pergracilis*
Geometrid Moth, No Common Name	*Itame abruptata*
Geometrid Moth, No Common Name	*Lophosis labeculata*
Geometrid Moth, No Common Name	*Lytrosis permagnaria*
Geometrid Moth, No Common Name	*Metarranthis amyrisaria*
Geometrid Moth, No Common Name	*Metarranthis mestusata*
Geometrid Moth, No Common Name	*Metarranthis sp. 1*
Geometrid Moth, No Common Name	*Orthofidonia exornata*
Geometrid Moth, No Common Name	*Pero zalissaria*
Geometrid Moth, No Common Name	*Semiothisa distribuaria*
Geometrid Moth, No Common Name	*Xanthorhoe iduata*
Georgia Satyr	*Neonympha areolatus*
German Cousin Moth	*Sideridis congermana*
Ghost Moth (No Common Name)	*Hepialus sciophanes*
Giant Swallowtail	*Papilio cresphontes*

Goatweed Leafwing	*Anaea andria*
Golden-banded Skipper	*Autochton cellus*
Granitosa Fern Moth	*Callopistria granitosa*
Gray Hairstreak	*Strymon melinus*
Gray Sallow	*Psaphida grandis*
Great Ash Sphinx	*Sphinx chersis*
Great Purple Hairstreak	*Atlides halesus*
Great Southern White	*Ascia monuste*
Great Spangled Fritillary	*Speyeria cybele*
Green Arches	*Anaplectoides prasina*
Green Cloverworm Moth	*Plathypena scabra*
Green Comma	*Polygonia faunus*
Grizzled Skipper	*Pyrgus wyandot*
Gulf Fritillary	*Agraulis vanillae nigrior*
Hackberry Emperor	*Asterocampa celtis*
Harvester	*Feniseca tarquinius*
Hawthorn Underwing	*Catocala crataegi*
Hayhurst's Scallopwing	*Staphylus hayhurstii*
Hebard's Noctuid Moth	*Psectrotarsia hebardi*
Henry's Elfin	*Callophrys henrici*
Hermit Sphinx	*Sphinx eremitus*
Herodias Underwing,	*Catocala herodias*
Hesitant Dagger Moth	*Acronicta haesitata*
Hessel's Hairstreak	*Callophrys hesseli*
Hickory Hairstreak	*Satyrium caryaevorus*
Hoary Edge	*Achalarus lyciades*
Hoary Elfin	*Callophrys polios*
Hobomok Skipper	*Poanes hobomok*
Horace's Duskywing	*Erynnis horatius*
Hummingbird Clearwing	*Hemaris thysbe*
Hydrangea Sphinx	*Darapsa versicolor*
Imperial Moth	*Eacles imperialis*
Inconsolable Underwing	*Catocala insolabilis*
Indian Skipper	*Hesperia sassacus*
Io Moth	*Automeris io*
Juvenal's Duskywing	*Erynnis juvenalis*
King's Hairstreak	*Satyrium kingi*
Labrador Carpet	*Xanthorhoe labradorensis*
Lace-winged Road-skipper	*Amblyscirtes aesculapius*

Large Hypena Moth	*Hypena edictalis*
Large Looper Moth	*Autographa ampla*
Laurel Sphinx	*Sphinx kalmiae*
Leafcup Borer Moth	*Papaipema polymniae*
Least Skipper	*Ancyloxypha numitor*
Lemmer's Pinion Moth	*Lithophane lemmeri*
Leonard's Skipper	*Hesperia leonardus*
Little Glassywing	*Pompeius verna*
Little Metalmark	*Calephelis borealis*
Little Wood-satyr	*Megisto cymela*
Little Yellow	*Eurema lisa*
Long Dash	*Polites mystic*
Long-tailed Skipper	*Urbanus proteus*
Looper Moth	*Euchlaena milnei*
Luna Moth	*Actias luna*
Many-lined Carpet	*Anticlea multiferata*
Maple Spanworm Moth	*Ennomos magnaria*
Marbled Carpet	*Dysstroma truncata*
Marbled Underwing	*Catocala marmorata*
Maritime Zale Moth	*Zale sp. 3*
Meadow Fritillary	*Boloria bellona*
Meadow Rue Borer Moth	*Papaipema unimoda*
Merry Melipotis Moth	*Melipotis jucunda*
Messalina Underwing	*Catocala messalina*
Miranda Underwing	*Catocala miranda*
Mixed Dart Moth	*Euxoa immixta*
Modest Quaker Moth	*Ulolonche modesta*
Monarch	*Danaus plexippus*
Mother Underwing	*Catocala parta*
Mottled Duskywing	*Erynnis martialis*
Mottled Euchlaena Moth	*Euchlaena tigrinaria*
Mourning Cloak	*Nymphalis antiopa*
Mustard White	*Pieris napi*
Nameless Pinion Moth	*Lithophane innominata*
Nessus Sphinx	*Amphion floridensis*
New Jersey Tea Inchworm Moth	*Apodrepanulatrix liberaria*
Noctuid Moth, No Common Name	*Abrostola ovalis*
Noctuid Moth, No Common Name	*Amolita obliqua*
Noctuid Moth, No Common Name	*Apamea cariosa*

Noctuid Moth, No Common Name	*Apamea plutonia*
Noctuid Moth, No Common Name	*Aplectoides condita*
Noctuid Moth, No Common Name	*Argyrostrotis deleta*
Noctuid Moth, No Common Name	*Argyrostrotis sylvarum*
Noctuid Moth, No Common Name	*Chortodes inquinata*
Noctuid Moth, No Common Name	*Cucullia alfarata*
Noctuid Moth, No Common Name	*Cucullia florea*
Noctuid Moth, No Common Name	*Diachrysia balluca*
Noctuid Moth, No Common Name	*Emarginea percara*
Noctuid Moth, No Common Name	*Hadena ectypa*
Noctuid Moth, No Common Name	*Hyppa contrasta*
Noctuid Moth, No Common Name	*Lacinipolia lustralis*
Noctuid Moth, No Common Name	*Leucania commoides*
Noctuid Moth, No Common Name	*Lithacodia albidula*
Noctuid Moth, No Common Name	*Lithacodia sp. 1*
Noctuid Moth, No Common Name	*Meropleon cosmion*
Noctuid Moth, No Common Name	*Meropleon titan*
Noctuid Moth, No Common Name	*Metria amella*
Noctuid Moth, No Common Name	*Morrisonia sp. 1*
Noctuid Moth, No Common Name	*Oligia crytora*
Noctuid Moth, No Common Name	*Oligia exhausta*
Noctuid Moth, No Common Name	*Oxycilla mitographa*
Noctuid Moth, No Common Name	*Paectes abrostolella*
Noctuid Moth, No Common Name	*Pangrapta sp. 1*
Noctuid Moth, No Common Name	*Polychrysia morigera*
Noctuid Moth, No Common Name	*Properigea sp. 1*
Noctuid Moth, No Common Name	*Psaphida thaxterianus*
Noctuid Moth, No Common Name	*Richia grotei*
Noctuid Moth, No Common Name	*Trichosilia manifesta*
Noctuid Moth, No Common Name	*Zale curema*
Noctuid Moth, No Common Name	*Zale submediana*
Noctuid Moth, No Common Name	*Zanclognatha gypsalis*
Noctuid Moth, No Common Name	*Zanclognatha sp. 1*
Nondescript Dagger Moth	*Acronicta spinigera*
Northern Broken Dash	*Wallengrenia egeremet*
Northern Cloudywing	*Thorybes pylades*
Northern Crescent	*Phyciodes selenis*
Northern Hairstreak	*Fixsenia favonius ontario*
Northern Pearly-eye	*Enodia anthedon*

Northern Petrophora Moth	*Petrophora subaequaria*
Northern Pine Sphinx	*Lapara bombycoides*
Oblong Sedge Borer Moth	*Archanara oblonga*
Ocola Skipper	*Panoquina ocola*
Olive Angle Shades	*Phlogophora iris*
Olive Arches	*Lacinipolia olivacea*
Olive Juniper Hairstreak	*Callophrys gryneus*
Olympia Marble	*Euchloe olympia*
Orange Panopoda Moth	*Panopoda repanda*
Orange Sulphur	*Colias eurytheme*
Orange-barred Sulphur	*Phoebis philea*
Orangestriped Oakworm Moth	*Anisota senatoria*
Osmunda Stem Borer Moth	*Papaipema speciosissima*
Painted Lady	*Vanessa cardui*
Palamedes Swallowtail	*Papilio palamedes*
Palatka Skipper	*Euphyes pilatka*
Pale Metanema Moth	*Metanema inatomaria*
Pale Metarranthis Moth	*Metarranthis indeclinata*
Pandorus Sphinx	*Eumorpha pandorus*
Pearl Crescent	*Phyciodes tharos*
Pearly-winged Lichen Moth	*Crambidia casta*
Peck's Eupithecia Moth	*Eupithecia peckorum*
Peck's Skipper	*Polites peckius*
Pepper And Salt Road-skipper	*Amblyscirtes hegon*
Persius Duskywing	*Erynnis persius*
Pine Barrens Zale Moth	*Zale lunifera*
Pine Tussock Moth	*Dasychira pinicola*
Pine-devil Moth	*Citheronia sepulcralis*
Pinion Moth, No Common Name	*Lithophane lepida adipel*
Pink-edged Sulphur	*Colias interior*
Pink-streak Moth	*Faronta rubripennis*
Pink-striped Oakworm Moth	*Anisota virginiensis*
Pink-striped Willow Spanworm Moth	*Cabera variolaria*
Pipevine Swallowtail	*Battus philenor*
Plebeian Sphinx	*Paratrea plebeja*
Polyphemus Moth	*Antheraea polyphemus*
Precious Underwing (Moth)	*Catocala pretiosa pretiosa*
Primrose Moth	*Schinia florida*
Promethea Silkmoth	*Callosamia promethea*

Prominent Moth, No Common Name	*Heterocampa astarte*
Pure Lichen Moth	*Crambidia pura*
Putnam's Looper Moth	*Plusia putnami*
Puzzling Dagger Moth	*Acronicta subochrea*
Question Mark	*Polygonia interrogationis*
Radcliffe's Dagger Moth	*Acronicta radcliffei*
Rare Skipper	*Problema bulenta*
Rare Spring Moth	*Heliomata infulata*
Red Admiral	*Vanessa atalanta*
Red-banded Hairstreak	*Calycopis cecrops*
Red-spotted Lithacodia Moth	*Lithacodia concinnimacula*
Red-spotted Purple	*Limenitis arthemis astyanax*
Regal Fritillary	*Speyeria idalia*
Regal Moth	*Citheronia regalis*
Reversed Road-skipper	*Amblyscirtes reversa*
Robinson's Underwing	*Catocala robinsoni*
Rosy Maple Moth	*Dryocampa rubicunda*
Rustic Sphinx	*Manduca rustica*
Sachem	*Atalopedes campestris*
Sad Underwing	*Catocala maestosa*
Saint Francis' Satyr	*Neonympha mitchellii francisci*
Sallow Moth, No Common Name	*Pyrrhia adela*
Salt Marsh Skipper	*Panoquina panoquin*
Salt-and-pepper Looper Moth	*Syngrapha rectangula*
Sappho Underwing	*Catocala sappho*
Scholastic Dart Moth	*Euxoa scholastica*
Seaside Goldenrod Borer Moth	*Papaipema duovata*
Serene Underwing	*Catocala serena*
Shivering Pinion Moth	*Lithophane querquera*
Sigmoid Dart Moth	*Eueretagrotis sigmoides*
Silver-bordered Fritillary	*Boloria selene*
Silver-spotted Skipper	*Epargyreus clarus*
Silvery Blue	*Glaucopsyche lygdamus*
Silvery Checkerspot	*Chlosyne nycteis*
Sleepy Duskywing	*Erynnis brizo*
Sleepy Orange	*Eurema nicippe*
Sleepy Underwing	*Catocala concumbens*
Small-eyed Sphinx	*Paonias myops*
Smyth's Green Comma	*Polygonia faunus smythi*

Smyth's Apamea Moth	*Apamea smythi*
Snowberry Clearwing	*Hemerus diffinis*
Sordid Hypena Moth	*Hypena sordidula*
Southeastern Cane Borer Moth	*Papaipema sp 3*
Southern Broken-dash	*Wallengrenia otho*
Southern Cloudywing	*Thorybes bathyllus*
Southern Dogface	*Colias cesonia*
Southern Pearly-eye	*Enodia portlandia*
Southern Pine Sphinx	*Lapara coniferarum*
Southern Ptichodis Moth	*Ptichodis bistrigata*
Southern Spragueia Moth	*Spragueia dama*
Spear-marked Black Moth	*Rheumaptera hastata*
Spicebush Swallowtail	*Papilio troilus*
Splendid Dagger Moth	*Acronicta superans*
Spiny Oakworm Moth	*Anisota stigma*
Spring Azure	*Celastrina ladon*
Striped Hairstreak	*Satyrium liparops*
Subdued Quaker Moth	*Orthosia revicta*
Sunflower Borer Moth	*Papaipema necopina*
Swarthy Skipper	*Nastra lherminier*
Sweet (Or Quiet) Underwing	*Catocala dulciola*
Sweetbay Silkmoth	*Callosamia securifera*
Sweetfern Underwing	*Catocala antinympha*
Swift Setwing	*Dythemis velox*
Tawny Crescent	*Phyciodes batesii*
Tawny Emperor	*Asterocampa clyton*
Tawny-edged Skipper	*Polites themistocles*
Tersa Sphinx	*Xylophanes tersa*
Thin-lined Erastria Moth	*Erastria cruentaria*
Three-lined Balsa Moth	*Balsa tristrigella*
Tuliptree Silkmoth	*Callosamia angulifera*
Turtlehead Borer Moth	*Papaipema nepheleptena*
Tuscarora Emerald	*Nemoria tuscarora*
Tussock Moth, No Common Name	*Dasychira plagiata*
Two-spot Dart Moth	*Eueretagrotis perattenta*
Two-spotted Skipper	*Euphyes bimacula*
Ulalume Underwing	*Catocala ulalume*
Unexpected Cycnia Moth	*Cycnia collaris*
Variegated Fritillary	*Euptoieta claudia*

Viceroy	*Limenitis archippus*
Violet Dart Moth	*Euxoa violaris*
Virginia Creeper Sphinx	*Darapsa myron*
Walnut Sphinx	*Laothoe juglandis*
Watson's Arugisa Moth	*Arugisa watsoni*
Waved Sphinx	*Ceratomia undulosa*
Welsh Wave Moth	*Venusia cambrica*
West Virginia White	*Pieris virginiensis*
Wetland Borer Moth, No Common Name	*Bellura anoa*
Wetland Borer Moth, No Common Name	*Bellura brehmei*
Wetland Borer Moth, No Common Name	*Bellura melanopyga*
Whirlabout	*Polites vibex*
White Admiral	*Limenitis arthemis arthemis*
White Eulithis Moth	*Eulithis explanata*
White M Hairstreak	*Parrhasius m-album*
White Underwing	*Catocala relicta*
Whitelined Sphinx	*Hyles lineata*
White-ribboned Carpet	*Mesoleuca ruficillata*
Wild Cherry Sphinx	*Sphinx drupiferarum*
Wild Indigo Duskywing	*Erynnis baptisiae*
Witch Hazel Dagger Moth	*Acronicta hamamelis*
Wood-colored Apamea Moth	*Apamea lignicolora*
Yehl Skipper	*Poanes yehl*
Yellow Stoneroot Borer Moth	*Papaipema astuta*
Yellow-edged Pygarctia Moth	*Pygarctia abdominalis*
Yellow-headed Lichen Moth	*Crambidia cephalica*
Yellow-striped Armyworm Moth	*Spodoptera ornithogalli*
Young's Dart Moth	*Xestia youngii*
Zabulon Skipper	*Poanes zabulon*
Zale Moth, No Common Name	*Zale sp. 2*
Zarucco Duskywing	*Erynnis zarucco*
Zebra Swallowtail	*Eurytides marcellus*
<u>All Other Insects (Partial):</u>	
Acuminate Water Boatman	*Ramphocorixa acuminata*
Allegheny Clubtail	*Ophiogomphus incurvatus alleghaniensis*
Allegheny Mayfly	*Ameletus cryptostimulus*
Allegheny River Cruiser	*Macromia alleghaniensis*

American Burying Beetle	*Nicrophorus americanus*
American Stag Beetle	*Lucanus elaphus*
Appalachian Grasshopper	*Appalachia hebardi*
Appalachian Rhyacophilid Caddisfly	*Rhyacophila appalachia*
Appalachian Snaketail	*Ophiogomphus incurvatus incurvatus*
Arrow Clubtail	*Stylurus spiniceps*
Arrowhead Spiketail	*Cordulegaster obliqua*
Ashy Clubtail	*Gomphus lividus*
Asiatic Garden Beetle	*Maladera castanea*
Assassin Bug, No Common Name	*Ctenotrachelus brimleyi*
Assassin Bug, No Common Name	*Gnathobleda litigiosa*
Assassin Bug, No Common Name	*Ploiaria hirticornis*
Assassin Bug, No Common Name	*Pnirontis brimleyi*
Assassin Bug, No Common Name	*Pnirontis languida*
Atlantic Bluet	*Enallagma doubledayi*
Attenuated Bluet	*Enallagma daeckii*
Aurora Damsel	*Chromagrion conditum*
Avernus Cave Beetle	*Pseudanophthalmus avernus*
Azure Bluet	*Enallagma aspersum*
Banded Pennant	*Celithemis fasciata*
Banner Cave Beetle	*Pseudanophthalmus sp. 9*
Banner Clubtail	*Hylogomphus apomyius*
Barrens Tiger Beetle	*Cicindela patruela*
Beartown Perlodid Stonefly	*Isoperla major*
Beaverpond Baskettail	*Epitheca canis*
Beaverpond Clubtail	*Phanogomphus borealis*
Beetle, No Common Name	*Nemadus horni*
Beetle, No Common Name	*Paralichas trivittis*
Beetle, No Common Name	*Sosylus costatus*
Benfield's Bearded Small Minnow Mayfly	*Barbaetis benfieldi*
Bent Forestfly	*Ostrocerca prolongata*
Berner's Ephemerella Mayfly	*Tsalia berneri*
Big Bluet	*Enallagma durum*
Black Lordithon Rove Beetle	*Lordithon niger*
Black Stalk-eyed Bug	*Isthmocorius piceus*
Black-tipped Darner	*Aeshna tuberculifera*
Black Turfgrass Ataenius	*Ataenius spretulus*
Blackwater Bluet	*Enallagma weewa*
Blue Ridge Sallfly	*Alloperla stipitata*

Blue Ridge Snowfly	*Allocapnia stannardi*
Blue Ridge Springfly	*Remenus kirchneri*
Blue Ridge Stonefly	*Perlesta frisoni*
Blue-fronted Dancer	*Argia apicalis*
Blue-tipped Dancer	*Argia tibialis*
Brook Snaketail	*Ophiogomphus aspersus*
Brown Spiketail	*Cordulegaster bilineata*
Buffalo Mountain Mealybug	*Puto kosztarabi*
Bumble Bee	*Bombus pensylvanicus*
Bumble Flower Beetle	*Euphoria inda*
Burgundy Bluet	*Enallagma dubium*
Burkes Garden Cave Beetle	*Pseudanophthalmus hortulanus*
Burnsville Cove Cave Beetle	*Pseudanophthalmus sp. 8*
Burrower Bug, No Common Name	*Melanaethus cavicollis*
Burrower Bug, No Common Name	*Tominotus communis*
Burying Beetle, No Common Name	*Nicrophorus defodiens*
Caddisfly, No Common Name	*Heteroplectron americanum*
Cahaba Sand-filtering Mayfly	*Homoeoneuria cahabensis*
Calico Pennant	*Celithemis elisa*
Canada Darner	*Aeshna canadensis*
Carolina Big-headed Tiger Beetle	*Megacephala carolina*
Carolina Burying Beetle	*Nicrophorus carolinus*
Carolina Salmonfly	*Pteronarcys scotti*
Carolina Spreadwing	*Lestes vidua*
Carolina Thread-legged Bug	*Ploiaria carolina*
Carrot Beetle	*Tomarus (Ligyrus) gibbosus*
Catawba Cave Beetle	*Pseudanophthalmus sp. 12*
Cave Fly, No Common Name	*Spelobia tenebrarum*
Cave Pselaphid Beetle, No Common Name	*Arianops jeanneli*
Chalk-fronted Corporal Skimmer	*Ladona julia*
Chapman's Shore Bug	*Isocytus chapmani*
Cherokee Clubtail	*Stenogomphuruss consanguis*
Cinnamon Shadowdragon	*Neurocordulia virginiensis*
Clamp-tipped Emerald	*Somatochlora tenebrosa*
Clover Hollow Cave Beetle	*Pseudanophthalmus gracilis*
Cobblestone Tiger Beetle	*Cicindela marginipennis*
Cobra Clubtail	*Gomphus vastus*
Combneck Assassin Bug	*Ctenotrachelus shermani*
Common Spreadwing	*Lestes disjunctus*

Common Stonefly	*Acroneuria abnormis*
Coppery Emerald	*Somatochlora georgiana*
Crossroads Cave Beetle	*Pseudanophthalmus intersectus*
Cryptic Willowfly	*Taeniopteryx nelsoni*
Cumberland Gap Cave Beetle	*Pseudanophthalmus hirsutus*
Deceptive Cave Beetle	*Pseudanophthalmus deceptivus*
Delicate Cave Beetle	*Pseudanophthalmus delicatus*
Delta-spotted Spiketail	*Cordulegaster diastatops*
Dismal Swamp Green Stink Bug	*Chlorochroa dismalia*
Dorbeetle	*Geotrupes (Anoplotrupes) balyi*
Dot-tailed Whiteface	*Leucorrhinia intacta*
Double-ringed Pennant	*Celithemis verna*
Double-striped Bluet	*Enallagma basidens*
Drake's Water Scorpion	*Ranatra drakei*
Dublin Cave Beetle	*Pseudanophthalmus sp. 7*
Dung or Chafer Beetle, No Common Name (Scarab)	*Aegialia blanchardi*
Dung or Chafer Beetle, No Common Name (Scarab)	*Aegialia humeralis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Aidophus parcus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Anomala binotata*
Dung or Chafer Beetle, No Common Name (Scarab)	*Anomala flavipennis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Anomala innuba*
Dung or Chafer Beetle, No Common Name (Scarab)	*Anomala lucicola*
Dung or Chafer Beetle, No Common Name (Scarab)	*Anomala marginata*
Dung or Chafer Beetle, No Common Name (Scarab)	*Anomala undulata*
Dung or Chafer Beetle, No Common Name (Scarab)	*Aphonus castaneus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Aphonus densicauda*
Dung or Chafer Beetle, No Common Name (Scarab)	*Aphonus tridentatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Aphotaenius carolinus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius abditus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius alternatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius apicalis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius brevis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius cylindrus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius fattigi*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius figurator*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius glaseri*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius gracilis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius imbricatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius insculptus*

Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius miamii*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius ovatulus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius platensis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius simulator*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius strigatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ataenius wenzelii*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ateuchus histeroides*
Dung or Chafer Beetle, No Common Name (Scarab)	*Ateuchus lecontei*
Dung or Chafer Beetle, No Common Name (Scarab)	*Canthon chalcites*
Dung or Chafer Beetle, No Common Name (Scarab)	*Canthon probus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Canthon vigilans*
Dung or Chafer Beetle, No Common Name (Scarab)	*Canthon viridis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Cremastocheilus (Cremastocheilus) castaneus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Cremastocheilus (Cremastocheilus) harrisii*
Dung or Chafer Beetle, No Common Name (Scarab)	*Cremastocheilus (Cremastocheilus) variolosus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Cyclocephala lurida*
Dung or Chafer Beetle, No Common Name (Scarab)	*Deltochilum gibbosum*
Dung or Chafer Beetle, No Common Name (Scarab)	*Dialytellus dialytoides*
Dung or Chafer Beetle, No Common Name (Scarab)	*Dialytellus humeralis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Dialytes striatulus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Dialytes truncatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Dialytes ulkei*
Dung or Chafer Beetle, No Common Name (Scarab)	*Dichotomius carolinus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Dyscinetus morator*
Dung or Chafer Beetle, No Common Name (Scarab)	*Euphoria herbacea*
Dung or Chafer Beetle, No Common Name (Scarab)	*Euphoria sepulcralis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Eutheola humilis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Gnorimella maculosa*
Dung or Chafer Beetle, No Common Name (Scarab)	*Hornietus ventralis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Melanocanthon bispinatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Neopsammodius interruptus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Odontopsammodius bidens*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus hecate*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus nuchicornis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus oklahomensis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus orpheus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus orpheus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus pennsylvanicus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus striatulus*

Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus subaeneus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus taurus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Onthophagus tuberculifrons*
Dung or Chafer Beetle, No Common Name (Scarab)	*Osmoderma eremicola*
Dung or Chafer Beetle, No Common Name (Scarab)	*Osmoderma scabra*
Dung or Chafer Beetle, No Common Name (Scarab)	*Parastasia brevipes*
Dung or Chafer Beetle, No Common Name (Scarab)	*Phileurus valgus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Platyomus atlanticus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Platyomus notialis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Pleurophorus caesus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Psammodius basalis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Psammodius laevipennis*
Dung or Chafer Beetle, No Common Name (Scarab)	*Pseudataenius contortus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Pseudocanthon perplexus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Psilocnemis leucosticta*
Dung or Chafer Beetle, No Common Name (Scarab)	*Rhyssemus scaber*
Dung or Chafer Beetle, No Common Name (Scarab)	*Stephanuca areata*
Dung or Chafer Beetle, No Common Name (Scarab)	*Strigoderma arbicola*
Dung or Chafer Beetle, No Common Name (Scarab)	*Tomarus (Ligyrodes) relictus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Trichiotinus bibens*
Dung or Chafer Beetle, No Common Name (Scarab)	*Trichiotinus lunulatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Trichiotinus piger*
Dung or Chafer Beetle, No Common Name (Scarab)	*Valgus canaliculatus*
Dung or Chafer Beetle, No Common Name (Scarab)	*Valgus seticollis*
Dung or Chafer Beetle, No Common Name (Scarab))	*Copris fricator*
Dung or Chafer Beetle, No Common Name (Scarab))	*Cremastocheilus (Cremastocheilus) canaliculatus*
Dung or Chafer Beetle, No Common Name (Scarab))	*Onthophagus concinnus*
Dusky Sallfly	*Alloperla biserrata*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Bolboceras cornigerus*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Bolboceras darlingtoni*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Bolboceras liebecki*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Bolboceras thoracicornis*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Bolbocerosoma farctum*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Bolbocerosoma tumefactum*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Bradycinetulus ferrugineus*

Earth-boring Dung Beetle, No Common Name (Scarab)	*Eucanthus impressus*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Eucanthus lazarus*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Eucanthus subtropicus*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Geotrupes (Anoplotrupes) hornii*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Geotrupes (Cnemotrupes) blackburnii*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Geotrupes (Cnemotrupes) egeriei*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Geotrupes (Cnemotrupes) ulkei*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Geotrupes (Onychotrupes) semiopacus*
Earth-boring Dung Beetle, No Common Name (Scarab)	*Geotrupes (Onychotrupes) splendidus*
Eastern Hercules Beetle	*Dynastes tityus*
Eastern Saltmarsh Mosquito	*Aedes sollicitans*
Eastern Treehole Mosquito	*Aedes triseriatus*
Eastern Tumblebug	*Canthon pilularis*
Ebony Jewelwing	*Calopteryx maculata*
Elegant Spreadwing	*Lestes inaequalis*
Elfin Skimmer	*Nannothemis bella*
Elk Garden Cave Beetle	*Pseudanophthalmus sp. 42*
Ellett Valley Cave Beetle	*Pseudanophthalmus pusio*
Elusive Clubtail	*Stylurus notatus*
Emerald Spreadwing	*Lestes dryas*
Faded Pennant	*Celithemis ornata*
Familiar Bluet	*Enallagma civile*
Fine-lined Emerald	*Somatochlora filosa*
Flat Bark Beetle, No Common Name	*Hemipeplus microphthalmus*
Flat-horned Ground Beetle, No Common Name	*Helluomorphoides nigripennis*
Flightless Tiger Beetle	*Cicindela unipunctata*
Flower Beetle	*Trichiotinus affinis*
Flower Scarab	*Trigonopeltastes delta*
Frosted Whiteface	*Leucorrhinia frigida*
Gammon's Riffle Beetle	*Stenelmis gammoni*
Georgia Isonychia Mayfly	*Isonychia georgiae*
Gipsy Cuckoo-bee	*Bombus bohemicus*
Goldsmith Beetle	*Cotalpa lanigera*
Greears Cave Beetle	*Pseudanophthalmus sp. 4*

Green-faced Clubtail	*Hylogomphus viridifrons*
Green-striped Darner	*Aeshna verticalis*
Ground Beetle, No Common Name	*Cyclotrachelus incisus*
Ground Beetle, No Common Name	*Dicaelus sculptilis*
Ground Beetle, No Common Name	*Pentagonica picticornis*
Ground Beetle, No Common Name	*Phloeoxena signata*
Ground Beetle, No Common Name	*Pseudaptinus lecontei*
Ground Beetle, No Common Name	*Thalpius pygmaeus*
Hagen's Bluet	*Enallagma hageni*
Halloween Pennant	*Celithemis eponina*
Harpoon Clubtail	*Gomphus descriptus*
Hercules Club Stink Bug	*Elasmostethus atricornis*
Highlands Springfly	*Yugus arinus*
Hoffman's Cave Beetle	*Pseudanophthalmus hoffmani*
Hoffman's Isonychia Mayfly	*Isonychia hoffmani*
Holsinger's Cave Beetle	*Pseudanophthalmus holsingeri*
Holston Sallfly	*Sweltsa holstonensis*
Horned Passalus	*Odontotaenius disjunctus*
Howden's Copris Scarab Beetle	*Copris howdeni*
Hubbard's Cave Beetle	*Pseudanophthalmus hubbardi*
Hubricht's Cave Beetle	*Pseudanophthalmus hubrichti*
Hudsonian Whiteface	*Leucorrhinia hudsonica*
Hydropsychid Caddisfly, No Common Name	*Hydropsyche betteni*
Illinois Snowfly	*Allocapnia illinoensis*
Immodest Spur-throat Grasshopper	*Melanoplus impudicus*
Indian Cave Beetle	*Pseudanophthalmus sp. 10*
Jane's Meadowhawk	*Sympetrum janeae*
Jefferson's Short-nosed Scorpionfly	*Brachypanorpa jeffersoni*
Johnson's Pronggill Mayfly	*Leptophlebia johnsoni*
Kanawhole Springfly	*Diploperla kanawholensis*
Karl's Pit Cave Beetle	*Pseudanophthalmus sp. 14*
Lamellicorn Beetle, No Common Name (Scarab)	*Strigoderma pygmaea*
Lancet Clubtail	*Gomphus exilis*
Lance-tipped Darner	*Aeshna constricta*
Laura's Clubtail	*Stylurus laurae*
Leaf Beetle, No Common Name	*Diabrotica cristata*
Leaf Beetle, No Common Name	*Pseudolampsis guttata*
Leaf Beetle, No Common Name	*Calligrapha pnirsa*
Lesser Dung Beetle, No Common Name	*Aphodius badipes*

Lesser Dung Beetle, No Common Name	*Aphodius bicolor*
Lesser Dung Beetle, No Common Name	*Aphodius campestris*
Lesser Dung Beetle, No Common Name	*Aphodius crassulus*
Lesser Dung Beetle, No Common Name	*Aphodius distinctus*
Lesser Dung Beetle, No Common Name	*Aphodius erraticus*
Lesser Dung Beetle, No Common Name	*Aphodius femoralis*
Lesser Dung Beetle, No Common Name	*Aphodius fimetarius*
Lesser Dung Beetle, No Common Name	*Aphodius fossor*
Lesser Dung Beetle, No Common Name	*Aphodius granarius*
Lesser Dung Beetle, No Common Name	*Aphodius haemorrhoidalis*
Lesser Dung Beetle, No Common Name	*Aphodius lentus*
Lesser Dung Beetle, No Common Name	*Aphodius leopardus*
Lesser Dung Beetle, No Common Name	*Aphodius lividus*
Lesser Dung Beetle, No Common Name	*Aphodius lutulentus*
Lesser Dung Beetle, No Common Name	*Aphodius phalerioides*
Lesser Dung Beetle, No Common Name	*Aphodius prodromus*
Lesser Dung Beetle, No Common Name	*Aphodius pseudolividus*
Lesser Dung Beetle, No Common Name	*Aphodius robinsoni*
Lesser Dung Beetle, No Common Name	*Aphodius rubeolus*
Lesser Dung Beetle, No Common Name	*Aphodius rubripennis*
Lesser Dung Beetle, No Common Name	*Aphodius rufipes*
Lesser Dung Beetle, No Common Name	*Aphodius rusicola*
Lesser Dung Beetle, No Common Name	*Aphodius serval*
Lesser Dung Beetle, No Common Name	*Aphodius stercorosus*
Lesser Dung Beetle, No Common Name	*Aphodius stupidus*
Lesser Dung Beetle, No Common Name	*Aphodius sylvanicus*
Lesser Dung Beetle, No Common Name	*Aphodius tenellus*
Lesser Dung Beetle, No Common Name	*Aphodius terminalis*
Lesser Dung Beetle, No Common Name	*Aphodius vittatus*
Lilypad Clubtail	*Arigomphus furcifer*
Limnephilid Caddisfly, No Common Name	*Anabolia apora*
Limnephilid Caddisfly, No Common Name	*Nemotaulius hostilis*
Little Kennedy Cave Beetle	*Pseudanophthalmus cordicollis*
Lobed Roachfly	*Tallaperla lobata*
Long-headed Cave Beetle	*Pseudanophthalmus longiceps*
Long-horned Beetle, No Common Name	*Anthophylax hoffmani*
Long-horned Beetle, No Common Name	*Urographis triangulifer*
Maiden Spring Cave Beetle	*Pseudanophthalmus virginicus*
Maine Snaketail	*Ophiogomphus mainensis*

Manassas Stonefly	*Acroneuria flinti*
Mantled Baskettail	*Epitheca semiaquea*
Marsh Bluet	*Enallagma ebrium*
Martha's Pennant	*Celithemis martha*
Maureen's Hydraenan Minute Beetle	*Hydraena maureenae*
May Beetle or June Bug, No Common Name	*Dichelonyx albicollis*
May Beetle or June Bug, No Common Name	*Dichelonyx diluta*
May Beetle or June Bug, No Common Name	*Dichelonyx fuscula*
May Beetle or June Bug, No Common Name	*Dichelonyx linearis*
May Beetle or June Bug, No Common Name	*Dichelonyx subvittata*
May Beetle or June Bug, No Common Name	*Diplotaxis atlantis*
May Beetle or June Bug, No Common Name	*Diplotaxis bidentata*
May Beetle or June Bug, No Common Name	*Diplotaxis frondicola*
May Beetle or June Bug, No Common Name	*Diplotaxis harperi*
May Beetle or June Bug, No Common Name	*Diplotaxis liberta*
May Beetle or June Bug, No Common Name	*Diplotaxis punctatorugosa*
May Beetle or June Bug, No Common Name	*Diplotaxis sordida*
May Beetle or June Bug, No Common Name	*Diplotaxis subcostata*
May Beetle or June Bug, No Common Name	*Hoplia equina*
May Beetle or June Bug, No Common Name	*Hoplia modesta*
May Beetle or June Bug, No Common Name	*Hoplia trifasciata*
May Beetle or June Bug, No Common Name	*Hoplia trivialis*
May Beetle or June Bug, No Common Name	*Macrodactylus angustata*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) aemula*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) anxia*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) apicata*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) balia*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) barda*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) crenulata*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) debilis*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) diffinis*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) dispar*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) drakii*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) ephilida*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) forsteri*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) foxii*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) fraterna*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) fusca*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) futilis*

May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) georgiana*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) glaberrima*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) gracilis*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) hirsuta*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) hirticula*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) hornii*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) ilicis*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) inversa*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) knochii*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) latifrons*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) luctuosa*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) marginalis*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) micans*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) paternoi*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) postrema*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) profunda*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) prununculina*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) quercus*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) rugosa*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) subpruinosa*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) subtonsa*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) sylvatica*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) tristis*
May Beetle or June Bug, No Common Name	*Phyllophaga (Phyllophaga) vilifrons*
May Beetle or June Bug, No Common Name	*Phyllophagas (Phyllophagas) implicita*
May Beetle or June Bug, No Common Name	*Polyphylla comes*
May Beetle or June Bug, No Common Name	*Polyphylla occidentalis*
May Beetle or June Bug, No Common Name	*Polyphylla variolosa*
May Beetle or June Bug, No Common Name	*Serica atricapilla*
May Beetle or June Bug, No Common Name	*Serica blatchleyi*
May Beetle or June Bug, No Common Name	*Serica carolina*
May Beetle or June Bug, No Common Name	*Serica georgiana*
May Beetle or June Bug, No Common Name	*Serica imitans*
May Beetle or June Bug, No Common Name	*Serica intermixta*
May Beetle or June Bug, No Common Name	*Serica iricolor*
May Beetle or June Bug, No Common Name	*Serica lecontei*
May Beetle or June Bug, No Common Name	*Serica loxia*
May Beetle or June Bug, No Common Name	*Serica mystaca*
May Beetle or June Bug, No Common Name	*Serica opposita*

May Beetle or June Bug, No Common Name	*Serica parallela*
May Beetle or June Bug, No Common Name	*Serica sericea*
May Beetle or June Bug, No Common Name	*Serica vespertina*
Mayfly, No Common Name	*Baetis intercalaris*
Mayfly, No Common Name	*Baetis flavistriga*
Mayfly, No Common Name	*Baetisca rubescens*
Mayfly, No Common Name	*Ephemerella inconstans*
Mayfly, No Common Name	*Habrophlebiodes celeteria*
Mayfly, No Common Name	*Isonychia arida*
Mayfly, No Common Name	*Isonychia serrata*
Mayfly, No Common Name	*Isonychia tusculanensis*
Mayfly, No Common Name	*Iswaeon rubrolaterale*
Mayfly, No Common Name	*Neoephemera compressa*
Mayfly, No Common Name	*Paraleptophlebia assimilis*
Mayfly, No Common Name	*Paraleptophlebia jeanae*
Mayfly, No Common Name	*Rhithrogena anomala*
Mcmullens Cave Beetle	*Pseudanophthalmus sp. 13*
Midland Clubtail	*Gomphus fraternus*
Minute Moss Beetle	*Hydraena appalachicola*
Mirid Bug, No Common Name	*Bothynotus johnstoni*
Mississippi Turtle Bug	*Allopodops mississippiensis*
Mitchell Needlefly	*Leuctra mitchellensis*
Mocha Emerald	*Somatochlora linearis*
Montane Needlefly	*Leuctra monticola*
Mountain River Cruiser	*Macromia margarita*
Moustached Clubtail	*Hylogomphus adelphus*
Mud-dwelling Cave Beetle	*Pseudanophthalmus limicola*
Natural Bridge Cave Beetle	*Pseudanophthalmus pontis*
Nelson's Cave Beetle	*Pseudanophthalmus nelsoni*
Neotropical Rice Bug	*Stenocoris tipuloides*
New River Valley Cave Beetle	*Pseudanophthalmus egberti*
Newfound Willowfly	*Strophopteryx limata*
Northeastern Beach Tiger Beetle	*Habroscelimorpha dorsalis dorsalis*
Northern Bluet	*Enallagma annexum*
Northern Bush Katydid	*Scudderia septentrionalis*
Northern House Mosquito	*Culex pipiens pipiens*
Northern Masked Chafer	*Cyclocephala borealis*
Northern Pygmy Clubtail	*Lanthus parvulus*
Notched Forestfly	*Ostrocerca complexa*

Nottaway Stonefly	*Perlesta cranshawi*
Orange-bellied Tiger Beetle	*Cicindela abdominalis*
Orange Bluet	*Enallagma signatum*
Oriental Beetle	*Anomala orientalis*
Ornate Stonefly	*Acroneuria yuchi*
Overlooked Cave Beetle	*Pseudanophthalmus praetermissus*
Ox Beetle	*Strategus antaeus*
Pale Bluet	*Enallagma pallidum*
Petrunkevitch's Cave Beetle	*Pseudanophthalmus petrunkevitchi*
Philopotamid Caddisfly, No Common Name	*Wormaldia thyria*
Phlox Whitefly	*Trialeurodes phlogis*
Piedmont Clubtail	*Hylogomphus parvidens*
Pine Barrens Plant Bug	*Plagiognathus repetitus*
Pine Chafer	*Anomala oblivia*
Pitcher Plant Fly	*Fletcherimyia fletcheri*
Pitcher Plant Midge	*Metriocnemus knabi*
Predaceous Diving Beetle, No Common Name	*Hoperius planatus*
Pselaphid Beetle, No Common Name	*Rybaxis sp. 1*
Purple Tiger Beetle	*Cicindela purpurea*
Pygmy Snaketail	*Ophiogomphus howei*
Rapids Clubtail	*Gomphus quadricolor*
Red Imported Fire Ant *	*Solenopsis Invicta **
Red-waisted Whiteface	*Leucorrhinia proxima*
Regal Darner	*Coryphaeschna ingens*
Rhea Valley Cave Beetle	*Pseudanophthalmus sp. 5*
Rhinoceros Beetle	*Xyloryctes jamaicensis*
Rhyacophilid Caddisfly, No Common Name	*Rhyacophila tricornuta*
Riffle Snaketail	*Ophiogomphus carolus*
River Jewelwing	*Calopteryx aequabilis*
Riverine Clubtail	*Stylurus amnicola*
Rock Island Springfly	*Isogenoides varians*
Rose Chafer	*Macrodactylus subspinosa*
Rosedale Cave Beetle	*Pseudanophthalmus sp. 43*
Rotund Cave Beetle	*Pseudanophthalmus rotundatus*
Rove Beetle, No Common Name	*Atheta annexa*
Rove Beetle, No Common Name	*Atheta troglophila*
Russet-tipped Clubtail	*Stylurus plagiatus*
Rusty-patched Bumble Bee	*Bombus affinis*
Rusty Snaketail	*Ophiogomphus rupinsulensis*

Rye Cove Cave Beetle	*Pseudanophthalmus seclusus*
Sable Clubtail	*Stenogomphurus rogersi*
Saint Paul Cave Beetle	*Pseudanophthalmus sanctipauli*
Scarab Beetle, No Common Name	*Germarostes (Germarostes) aphodioides*
Scarab Beetle, No Common Name	*Germarostes (Germarostes) globosus*
Scarab Beetle, No Common Name	*Lichnanthe lupina*
Scarab Beetle, No Common Name	*Lichnanthe vulpina*
Scarab Beetle, No Common Name	*Ochodaeus musculus*
Schaum's False Snail-eating Beetle	*Sphaeroderus schaumi*
Schaum's Longhorn Beetle	*Stenocorus schaumi*
Schwarz' Diving Beetle	*Laccophilus schwarzi*
Seashore Plant Bug	*Pycnoderiella virginiana*
Sedge Sprite	*Nehalennia irene*
Seed Bug, No Common Name	*Botocudo modestus*
Seepage Dancer	*Argia bipunctulata*
Septima's Clubtail	*Gomphus septima*
Shadow Darner	*Aeshna umbrosa*
Shenandoah Needlefly	*Megaleuctra flinti*
Shenandoah Sallfly	*Sweltsa palearata*
Shield Bug, No Common Name	*Acantholomidea denticulata*
Shield Bug, No Common Name	*Eurygaster alternata*
Shield Bug, No Common Name	*Galgupha denudata*
Showalters Cave Beetle	*Pseudanophthalmus sp. 11*
Silken Cave Beetle	*Pseudanophthalmus sericus*
Sixbanded Longhorn Beetle	*Dryobius sexnotatus*
Skillet Clubtail	*Gomphus ventricosus*
Skimming Bluet	*Enallagma geminatum*
Skin Beetle (Scarab)	*Omorgus asper*
Skin Beetle (Scarab)	*Omorgus scabrosus*
Skin Beetle (Scarab)	*Omorgus suberosus*
Skin Beetle (Scarab)	*Omorgus tytus*
Skin Beetle (Scarab)	*Trox aequalis*
Skin Beetle (Scarab)	*Trox capillaris*
Skin Beetle (Scarab)	*Trox foveicollis*
Skin Beetle (Scarab)	*Trox hamatus*
Skin Beetle (Scarab)	*Trox scaber*
Skin Beetle (Scarab)	*Trox sordidus*
Skin Beetle (Scarab)	*Trox spinulosus*
Skin Beetle (Scarab)	*Trox terrestris*

Skin Beetle (Scarab)	*Trox tuberculatus*
Skin Beetle (Scarab)	*Trox unistriatus*
Skin Beetle (Scarab)	*Trox variolatus*
Skin Beetle (Scarab))	*Omorgus monachus*
Ski-tipped Emerald	*Somatochlora elongata*
Slender Bluet	*Enallagma traviatum*
Slender Spreadwing	*Lestes rectangularis*
Small Black Dung Beetle	*Copris minutus*
Small Winter Snowfly	*Allocapnia rickeri*
Smokies Needlefly	*Megaleuctra williamsae*
Smokies Snowfly	*Allocapnia fumosa*
Smoky Willowfly	*Bolotoperla rossi*
Snow Scorpionfly, No Common Name	*Boreus nivoriundus*
South Branch Valley Cave Beetle	*Pseudanophthalmus potomaca potomaca*
Southeastern Beach Tiger Beetle	*Cicindela dorsalis media*
Southeastern Myotis Bat Fly	*Basilia boardmani*
Southeastern Roachfly	*Tallaperla cornelia*
Southern Pitcher Plant Mosquito	*Wyeomyia haynei*
Southern Plains Bumble Bee	*Bombus fraternus*
Southern Pygmy Clubtail	*Lanthus vernalis*
Southern Springfly	*Cultus decisus isolatus*
Southern Sprite	*Nehalennia integricollis*
Southern Water Scorpion	*Ranatra australis*
Sparkling Jewelwing	*Calopteryx dimidiata*
Spatterdock Darner	*Aeshna mutata*
Spatulate Snowfly	*Allocapnia simmonsi*
Spectral Tiger Beetle	*Cicindela lepida*
Sphagnum Sprite	*Nehalennia gracilis*
Spieth's Great Speckled Olive Mayfly	*Siphloplecton costalense*
Spine-crowned Clubtail	*Hylogomphus abbreviatus*
Spiny Salmonfly	*Pteronarcys comstocki*
Splendid Clubtail	*Gomphus lineatifrons*
Splendid Dung Beetle	*Phanaeus (Phanaeus) vindex*
Splendid Tiger Beetle	*Cicindela splendida*
Spotted Cave Beetle	*Pseudanophthalmus punctatus*
Spotted Grape Beetle	*Pelidnota punctata*
Spotted Lanternfly *	*Lycorma delicatula* *
Spotted Spreadwing	*Lestes congener*
Spur-throat Grasshopper, No Common Name	*Melanoplus celatus*

Spur-throat Grasshopper, No Common Name	*Melanoplus devius*
Spur-throat Grasshopper, No Common Name	*Melanoplus pachycercus*
Spur-throat Grasshopper, No Common Name	*Melanoplus sp. 55*
Spur-throat Grasshopper, No Common Name	*Melanoplus sp. 59*
Squash Bug	*Chelinidea vittiger*
Stag Beetle, No Common Name	*Ceruchus piceus*
Stag Beetle, No Common Name	*Dorcus brevis*
Stag Beetle, No Common Name	*Dorcus parallelus*
Stag Beetle, No Common Name	*Lucanus capreolus*
Stag Beetle, No Common Name	*Nicagus obscurus*
Stag Beetle, No Common Name (Scarab)	*Platycerus virescens*
St. Croix Snaketail	*Ophiogomphus susbehcha*
Straley's Cave Beetle	*Pseudanophthalmus quadratus*
Strawberry Stonefly	*Acroneuria kirchneri*
Stream Bluet	*Enallagma exsulans*
Stygian Shadowdragon	*Neurocordulia yamaskanensis*
Superb Jewelwing	*Calopteryx amata*
Swamp Forestfly	*Prostoia hallasi*
Swamp Spreadwing	*Lestes vigilax*
Swamp Stonefly	*Perlesta durfeei*
Swannanoa Sallfly	*Alloperla nanina*
Tarter's Ameletus Mayfly	*Ameletus tarteri*
Teays Stonefly	*Perlesta teaysia*
Tennessee Sallfly	*Alloperla neglecta*
Thin-neck Cave Beetle	*Pseudanophthalmus parvicollis*
Thomas' Cave Beetle	*Pseudanophthalmus thomasi*
Tiger Beetle, No Common Name	*Cicindela ancocisconensis*
Tiger Beetle, No Common Name	*Cicindela formosa generosa*
Tiger Beetle, No Common Name	*Cicindela gratiosa*
Tiger Beetle, No Common Name	*Cicindela limbalis*
Tiger Beetle, No Common Name	*Cicindela trifasciata*
Tiger Spiketail	*Cordulegaster erronea*
Treetop Emerald	*Somatochlora provocans*
Triceratops Beetle	*Phileurus truncatus*
Tufted Sallfly	*Alloperla banksi*
Tule Bluet	*Enallagma carunculatum*
Turquoise Bluet	*Enallagma divagens*
Turtle Bug, No Common Name	*Oncozygia clavicornis*
Twin-spotted Spiketail	*Cordulegaster maculata*

Two-striped Forceptail	*Aphylla williamsoni*
Variable Cuckoo Bumble Bee	*Bombus variabilis*
Variegated Meadowhawk	*Sympetrum corruptum*
Vernal Sallfly	*Alloperla idei*
Vesper Bluet	*Enallagma vesperum*
Vicariant Cave Beetle	*Pseudanophthalmus vicarius*
Violet Dancer	*Argia fumipennis violacea*
Virginia Piedmont Water Boatman	*Sigara depressa*
Virginia Sallfly	*Sweltsa voshelli*
Virginia Springfly	*Diploperla morgani*
Virginia Stonefly	*Acroneuria kosztarabi*
Watauga Springfly	*Yugus kondratieffi*
Water Scavenger Beetle, No Common Name	*Hydrobiomorpha casta*
Water Scorpion, No Common Name	*Nepa apiculata*
Water Strider, No Common Name	*Limnoporus dissortis*
White Corporal Skimmer	*Ladona exusta*
White Sand-river Mayfly	*Pseudiron centralis*
White-faced Meadowhawk	*Sympetrum obtrusum*
Widecollar Stonefly	*Paragnetina ichusa*
Williamson's Emerald	*Somatochlora williamsoni*
Winter Stonefly	*Taeniopteryx maura*
Wytheville Cave Beetle	*Pseudanophthalmus sp. 6*
Yellow Bumble Bee	*Bombus fervidus*
Yellow-banded Bumble Bee	*Bombus terricola*
Zebra Clubtail	*Stylurus scudderi*
DIPLURANS AND SPRINGTAILS (PARTIAL):	
Barr's Cave Springtail	*Sinella barri*
Cave Dipluran, No Common Name (Salamander Cave)	*Litocampa sp. 1*
Cave Dipluran, No Common Name	*Litocampa sp. 2*
Cave Dipluran, No Common Name	*Litocampa sp. 3*
Cave Dipluran, No Common Name	*Litocampa sp. 4*
Cave Dipluran, No Common Name	*Litocampa sp. 5*
Cave Obligate Springtail, No Common Name	*Pseudosinella hirsuta*
Cave Springtail, No Common Name	*Arrhopalites caedus*
Cave Springtail, No Common Name	*Arrhopalites carolynae*
Cave Springtail, No Common Name	*Arrhopalites clarus*
Cave Springtail, No Common Name	*Arrhopalites commorus*

Cave Springtail, No Common Name	*Arrhopalites lacuna*
Cave Springtail, No Common Name	*Arrhopalites marshalli*
Cave Springtail, No Common Name	*Arrhopalites pavo*
Cave Springtail, No Common Name	*Arrhopalites sacer*
Cave Springtail, No Common Name	*Arrhopalites silvus*
Cave Springtail, No Common Name	*Oncopodura hubbardi*
Cave Springtail, No Common Name	*Paleonura petebellingeri*
Cave Springtail, No Common Name	*Pseudosinella bona*
Cave Springtail, No Common Name	*Pseudosinella erewhon*
Cave Springtail, No Common Name	*Pseudosinella extra*
Cave Springtail, No Common Name	*Pseudosinella gisini*
Cave Springtail, No Common Name	*Pseudosinella granda*
Cave Springtail, No Common Name	*Pseudosinella orba*
Cave Springtail, No Common Name	*Pseudosinella sp. 2*
Cave Springtail, No Common Name	*Pseudosinella sp. 3*
Cave Springtail, No Common Name	*Pseudosinella sp. 4*
Cave Springtail, No Common Name	*Pygmarrhopalites caedus*
Cave Springtail, No Common Name	*Pygmarrhopalites commorus*
Cave Springtail, No Common Name	*Pygmarrhopalites lacuna*
Cave Springtail, No Common Name	*Pygmarrhopalites obtusus*
Cave Springtail, No Common Name	*Pygmarrhopalites sacer*
Cave Springtail, No Common Name	*Pygmarrhopalites sextus*
Cave Springtail, No Common Name	*Pygmarrhopalites silvus*
Cave Springtail, No Common Name	*Schaefferia hubbardi*
Cave Springtail, No Common Name	*Speleonura kenchristianseni*
Cave Springtail, No Common Name	*Typhlogastrura valentini*
Cooke's Cave Dipluran	*Litocampa cookei*
Fielding's Cave Dipluran	*Litocampa fieldingi*
Hoffman's Cave Springtail	*Sinella hoffmani*
Puckett's Cave Dipluran	*Litocampa pucketti*
Springtail, No Common Name	*Arrhopalites benitus*
ARACHNIDS (PARTIAL):	
Amaurobiid Spider, No Common Name	*Amaurobius borealis*
American Dog Tick	*Dermacentor variabilis*
Atlantic Purse-web Spider	*Sphodros atlanticus*
Black And Yellow Spider	*Argiope aurantia*
Brown Dog Tick	*Rhipicephalus sanguineus*

Carolina Scorpion	*Vaejovis carolinianus*
Cave Mite, No Common Name	*Foveacheles paralleloseta*
Cave Mite, No Common Name	*Rhagidia varia*
Cave Pseudoscorpion, No Common Name	*Apochthonius coecus*
Cave Pseudoscorpion, No Common Name	*Apochthonius holsingeri*
Cave Pseudoscorpion, No Common Name	*Chitrella sp. 1*
Cave Pseudoscorpion, No Common Name	*Chitrella superba*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius anophthalmus*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius binoculatus*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius gertschi*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius lutzi*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius proximosetus*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius regulus*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius similis*
Cave Pseudoscorpion, No Common Name	*Kleptochthonius sp. 1*
Cave Pseudoscorpion, No Common Name	*Mundochthonius holsingeri*
Cave Spider, No Common Name	*Islandiana muma*
Cave Spider, No Common Name	*Nesticus mimus*
Cave Spider, No Common Name	*Nesticus paynei*
Cave Spider, No Common Name	*Nesticus tennesseensis*
Clover Mite, No Common Name	*Bryobia praetiosa*
Coyle's Cave Spider	*Anthrobia coylei*
Coyle's Purse-web Spider	*Sphodros coylei*
Crablike Spiny Orb Weaver	*Gasteracantha cancriformis*
Elegant Crab Spider	*Xysticus elegans*
Emerton's Crab Spider	*Xysticus emertoni*
Fishing Spider, No Common Name	*Dolomedes scriptus*
Fishing Spider, No Common Name	*Dolomedes vittatus*
Funnel-web Spider, No Common Name	*Agelenopsis pennsylvanica*
Funnel-web Spider, No Common Name	*Barronopsis jeffersi*
Gertsch's Lampshade-web Spider	*Hypochilus gertschi*
Gnaphosid Spider, No Common Name	*Drassyllus louisianus*
Gnaphosid Spider, No Common Name	*Gnaphosa fontinalis*
Harvestman, No Common Name	*Erebomaster acanthina*
Harvestman, No Common Name	*Erebomaster sp. A*
Holsinger's Cave Spider	*Nesticus holsingeri*
Jumping Spider, No Common Name	*Metaphidippus protervus*
Lone Star Tick	*Amblyomma americanum*
Mite, No Common Name	*Androlaelaps sp. A*

Mite, No Common Name	*Eugamasus sp. A*
Mite, No Common Name	*Hupoaspis sp. A*
Mite, No Common Name	*Pergamasus sp. A*
Mite, No Common Name	*Poecilophysis extraneostella*
Mite, No Common Name	*Poecilophysis weyerensis*
Mite, No Common Name	*Robustocheles hilli*
Nursery-web Spider, No Common Name	*Pisaurina dubia*
Pocock's Lampshade-web Spider	*Hypochilus pococki*
Pseudoscorpion, No Common Name	*Apochthonius sp. A*
Pseudoscorpion, No Common Name	*Chitrella cavicola*
Pseudoscorpion, No Common Name	*Hesperochernes mirabilis*
Pseudoscorpion, No Common Name	*Hesperochernes sp. A*
Pseudoscorpion, No Common Name	*Kleptochthonius sp. B*
Rabbit Tick	*Haemaphysalis leporispalustris*
Red-legged Purse-web Spider	*Sphodros rufipes*
Robust Trapdoor Spider	*Antrodiaetus robustus*
Shenandoah Pseudoscorpion	*Kleptochthonius polychaetus*
Southeastern Wandering Spider	*Anahita punctulata*
Southern Black Widow Spider	*Latrodectus mactens*
Spider, No Common Name	*Achaearanea tepidariorum*
Spider, No Common Name	*Anthrobia monmouthia*
Spider, No Common Name	*Bathyphantes weyeri*
Spider, No Common Name	*Calymmaria cavicola*
Spider, No Common Name	*Centromerus latidens*
Spider, No Common Name	*Cicurina pallida*
Spider, No Common Name	*Eidmannella pallida*
Spider, No Common Name	*Liocranoides sp. A*
Spider, No Common Name	*Liocranoides unicolor*
Spider, No Common Name	*Nesticus carteri*
Spider, No Common Name	*Nesticus sp. A*
Spider, No Common Name	*Phanetta subterranea*
Spider, No Common Name	*Porrhomma cavernicolum*
Spruce-fir Moss Spider	*Microhexura montivaga*
Thorell's Lampshade-web Spider	*Hypochilus thorelli*
Threebanded Crab Spider	*Xysticus triguttatus*
Tick, No Common Name	*Ixodes cookei*
Two-clawed Hunting Spider, No Common Name	*Castianeira trilineata*
Two-clawed Hunting Spider, No Common Name	*Clubiona spiralis*
Valentine's Cave Pseudoscorpion	*Lissocreagris valentinei*

Winter Tick	*Dermacentor albipictus*
Wolf Spider, No Common Name	*Eycosa avida*
Wolf Spider, No Common Name	*Lycosa lenta*
PLANARIANS (PARTIAL):	
Bigger's Groundwater Planarian	*Sphalloplana subtilis*
Chandler's Planarian	*Sphalloplana chandleri*
Flatworm, No Common Name	*Geocentrophora cavernicola*
Flatworm, No Common Name	*Geocentrophora spp. A*
Groundwater Planarian, No Common Name	*Sphalloplana hypogea*
Groundwater Planarian, No Common Name	*Procotyla typhlops*
Holsinger's Groundwater Planarian	*Sphalloplana holsingeri*
Planarian, No Common Name	*Phagocata gracilis*
Planarian, No Common Name	*Phagocata morgani*
Planarian, No Common Name	*Sphalloplana percoeca*
Planarian, No Common Name	*Sphalloplana spp. A*
Powell Valley Planarian	*Sphalloplana consimilis*
Rockbridge County Cave Planarian	*Sphalloplana virginiana*
ANNELIDS (PARTIAL):	
Branchiobdelid Worm, No Common Name	*Ankyrodrilus legacus*
Branchiobdelid Worm, No Common Name	*Ankyrodrilus legacus*
Branchiobdelid Worm, No Common Name	*Cambarincola fallax*
Cave Lumbriculid Worm, No Common Name	*Stylodrilus beattiei*
Cave Obligate Worm, No Common Name	*Cambarincola fallax*
Oligochaete Worm, No Common Name	*Bdellodrilus illuminatus*
Oligochaete Worm, No Common Name	*Allolobophora chlorotica*
Oligochaete Worm, No Common Name	*Allolobophora turgida*
Oligochaete Worm, No Common Name	*Bimastos tumidus*
Oligochaete Worm, No Common Name	*Cambarincola philadephicus*
Oligochaete Worm, No Common Name	*Cambarincola spp. A*
Oligochaete Worm, No Common Name	*Dendrobaena rubida*
Oligochaete Worm, No Common Name	*Eisenia rosea*
Oligochaete Worm, No Common Name	*Eiseniella tetraedra*
Oligochaete Worm, No Common Name	*Lumbriculis spp. A*
Oligochaete Worm, No Common Name	*Octolasium lacteum*
Oligochaete Worm, No Common Name	*Oedipodrilus macbaini*

Oligochaete Worm, No Common Name	*Spelaedrilus multiporus*
Oligochaete Worm, No Common Name	*Xironodrilus formosus*
Oligochaete Worm, No Common Name	*Xironogiton instabilis*
Tubificid Worm, No Common Name	*Enchytraeid spp. A*

4 VAC 15-20-50. Definitions and Miscellaneous: In General; Definitions; "wild animal," "native animal," "naturalized animal," "nonnative (exotic) animal," and "domestic animal."

SUMMARY:

The recommendation is to update the date reference to the Department of Wildlife Resources' list of native and naturalized fauna in Virginia to reflect current information about these species.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-50. Definitions; "wild animal," "native animal," "naturalized animal," "nonnative (exotic) animal," and "domestic animal."

A. In accordance with § 29.1-100 of the Code of Virginia, the following terms shall have the meanings ascribed to them by this section when used in regulations of the board:

"Native animal" means those species and subspecies of animals naturally occurring in Virginia, as included in the department's ~~2024~~ 2026 "List of Native and Naturalized Fauna of Virginia," with copies available in the headquarters and regional offices of the department.

"Naturalized animal" means those species and subspecies of animals not originally native to Virginia that have established wild, self-sustaining populations, as included in the department's ~~2024~~ 2026 "List of Native and Naturalized Fauna of Virginia," with copies available in the headquarters and regional offices of the department.

"Nonnative (exotic) animal" means those species and subspecies of animals not naturally occurring in Virginia, excluding domestic and naturalized species.

The following animals are defined as domestic animals:

Domestic dog (Canis familiaris), including wolf hybrids.
Domestic cat (Felis catus), including hybrids with wild felines.
Domestic horse (Equus caballus), including hybrids with Equus asinus.
Domestic ass, burro, and donkey (Equus asinus).
Domestic cattle (Bos taurus and Bos indicus).
Domestic sheep (Ovis aries), including hybrids with wild sheep.
Domestic goat (Capra hircus).
Domestic swine (Sus scrofa), including pot-bellied pig and excluding any swine that are wild or for which no claim of ownership can be made.
Llama (Lama glama).
Alpaca (Lama pacos).
Camels (Camelus bactrianus and Camelus dromedarius).
Domesticated races of hamsters (Mesocricetus spp.).
Domesticated races of mink (Mustela vison) where adults are heavier than 1.15 kilograms or their coat color can be distinguished from wild mink.
Domesticated races of guinea pigs (Cavia porcellus).

Domesticated races of gerbils (Meriones unguiculatus).
Domesticated races of chinchillas (Chinchilla laniger).
Domesticated races of rats (Rattus norvegicus and Rattus rattus).
Domesticated races of mice (Mus musculus).
Domesticated breeds of European rabbit (Oryctolagus cuniculus) recognized by the American Rabbit Breeders Association, Inc. and any lineage resulting from crossbreeding recognized breeds. A list of recognized rabbit breeds is available on the department's website.
Domesticated races of chickens (Gallus).
Domesticated races of turkeys (Meleagris gallopavo).
Domesticated races of ducks and geese distinguishable morphologically from wild birds.
Feral pigeons (Columba domestica and Columba livia) and domesticated races of pigeons.
Domesticated races of guinea fowl (Numida meleagris).
Domesticated races of peafowl (Pavo cristatus).
Domesticated morphs of red cornsnake (Pantherophis guttatus) visibly distinguishable from native red cornsnakes based on their unique colors and patterns.

"Wild animal" means any member of the animal kingdom, except domestic animals, including any native, naturalized, or nonnative (exotic) mammal, fish, bird, amphibian, reptile, mollusk, crustacean, arthropod, or other invertebrate and any hybrid of these animals, except as otherwise specified in regulations of the board, or part, product, egg, or offspring of them, or the dead body or parts thereof.

B. Exception for red foxes and European rabbits. Domesticated red foxes (Vulpes vulpes) having coat colors distinguishable from wild red foxes and wild European rabbits possessed in captivity on July 1, 2017, may be maintained in captivity until the animal dies, but the animal may not be bred or sold without a permit from the department. Persons possessing domesticated red foxes or European rabbits without a permit from the department must declare such possession in writing to the department by January 1, 2018. This written declaration must include the number of individual animals in possession and date acquired, sex, estimated age, coloration, and a photograph of each fox or European rabbit. This written declaration (i) shall serve as a permit for possession only and (ii) is not transferable.

RATIONALE:

In 1991, the Board adopted a list of species identified as native and naturalized in the Commonwealth. This list is used in regulations pertaining to collection, holding, etc., of wildlife. This regulation was updated in 2024 to reflect changes in nomenclature and updated knowledge of the wildlife species known to occur in Virginia. The Department maintains extensive databases regarding fish and wildlife species, and interacts daily with professional biologists, sportsmen, landowners, legislators and other government officials, and other wildlife enthusiasts on a wide variety of issues affecting wildlife. It is essential that wildlife species be unambiguously identified in these interactions, whether they be regulatory, recreational, or educational pursuits. As the knowledge of wildlife taxonomy and genetics increases, and as field and laboratory techniques improve, the genetic and taxonomic relationships among species are

under constant revision. Thus, periodic updating of the taxonomic baseline and species lists for the Commonwealth is appropriate.

4 VAC 15-20-130. Definitions and Miscellaneous: In General; Endangered and threatened species; adoption of federal list; additional species enumerated.

SUMMARY:

The recommendation is to (i) update the date reference to the federal list of endangered and threatened wildlife species; and (ii) update the Virginia List of Endangered and Threatened Species to add Roanoke Logperch as endangered and to remove Emerald Shiner as state threatened to reflect their status in Virginia more accurately.

RECOMMENDED LANGUAGE OF AMENDMENT:

4 VAC 15-20-130. Endangered and threatened species; adoption of federal list; additional species enumerated.

A. The board hereby adopts the Federal Endangered and Threatened Species List, Endangered Species Act of December 28, 1973 (16 USC §§ 1531 through 1543), as amended as of ~~October 10, 2024~~ April 6, 2026, and declares all species listed thereon to be endangered or threatened species in the Commonwealth. Pursuant to subdivision 12 of § 29.1-103 of the Code of Virginia, the director is hereby delegated authority to propose adoption of modifications and amendments to the Federal Endangered and Threatened Species List in accordance with the procedures of §§ 29.1-501 and 29.1-502 of the Code of Virginia.

B. In addition to the provisions of subsection A of this section, the following species are declared endangered or threatened in the Commonwealth and are afforded the protection provided by Article 6 (§ 29.1-563 et seq.) of Chapter 5 of Title 29.1 of the Code of Virginia:

1. Fish:	
Endangered:	
Dace, Clinch	Chrosomus sp. cf. saylori
Dace, Tennessee	Phoxinus tennesseensis
Darter, sharphead	Etheostoma acuticeps
Darter, variegate	Etheostoma variatum
Logperch, Roanoke	Percina rex
Sunfish, blackbanded	Enneacanthus chaetodon
Threatened:	
Darter, Carolina	Etheostoma collis
Darter, golden	Etheostoma denoncourti
Darter, greenfin	Etheostoma chlorobranchium

Darter, western sand	Ammocrypta clara
Madtom, orangefin	Noturus gilberti
Paddlefish	Polyodon spathula
~~Shiner, emerald~~	~~Notropis atherinoides~~
Shiner, steelcolor	Cyprinella whipplei
Shiner, whitemouth	Notropis alborus
2. Amphibians:	
Endangered:	
Salamander, eastern tiger	Ambystoma tigrinum
Threatened:	
Salamander, Mabee's	Ambystoma mabeei
3. Reptiles:	
Endangered:	
Rattlesnake, canebrake (Coastal Plain population of timber rattlesnake)	Crotalus horridus
Turtle, bog	Glyptemys muhlenbergii
Turtle, eastern chicken	Deirochelys reticularia
Threatened:	
Lizard, eastern glass	Ophisaurus ventralis
Turtle, wood	Glyptemys insculpta
4. Birds:	
Endangered:	
Plover, Wilson's	Charadrius wilsonia
Rail, black	Laterallus jamaicensis
Woodpecker, red-cockaded	Dryobates borealis
Wren, Bewick's	Thryomanes bewickii
Threatened:	
Falcon, peregrine	Falco peregrinus
Shrike, loggerhead	Lanius ludovicianus
Sparrow, Bachman's	Aimophila aestivalis

Sparrow, Henslow's	Ammodramus henslowii
Tern, gull-billed	Sterna nilotica
5. Mammals:	
Endangered:	
Bat, Rafinesque's eastern big-eared	Corynorhinus rafinesquii macrotis
Bat, little brown	Myotis lucifugus
Bat, tri-colored	Perimyotis subflavus
Hare, snowshoe	Lepus americanus
Shrew, American water	Sorex palustris
Vole, rock	Microtus chrotorrhinus
6. Mollusks:	
Endangered:	
Coil, rubble	Helicodiscus lirellus
Coil, shaggy	Helicodiscus diadema
Deertoe	Truncilla truncata
Elephantear	Elliptio crassidens
Elimia, spider	Elimia arachnoidea
Floater, brook	Alasmidonta varicosa
Ghostsnail, thankless	Holsingeria unthanksensis
Heelsplitter, Tennessee	Lasmigona holstonia
Lilliput, purple	Toxolasma lividus
Mussel, slippershell	Alasmidonta viridis
Pigtoe, Ohio	Pleurobema cordatum
Pigtoe, pyramid	Pleurobema rubrum
Springsnail, Appalachian	Fontigens bottimeri
Springsnail (no common name)	Fontigens morrisoni
Supercoil, spirit	Paravitrea hera
Threatened:	
Floater, green	Lasmigona subviridis
Papershell, fragile	Leptodea fragilis

Pimpleback	Quadrula pustulosa
Pistolgrip	Tritogonia verrucosa
Riversnail, spiny	Iofluvialis
Sandshell, black	Ligumia recta
Supercoil, brown	Paravitrea septadens
7. Arthropods:	
Threatened:	
Amphipod, Madison Cave	Stygobromus stegerorum
Pseudotremia, Ellett Valley	Pseudotremia cavernarum
Xystodesmid, Laurel Creek	Sigmoria whiteheadi

C. It shall be unlawful to take, transport, process, sell, or offer for sale within the Commonwealth any threatened or endangered species of fish or wildlife except as authorized by law.

D. The incidental take of certain species may occur in certain circumstances and with the implementation of certain conservation practices as described in this subsection:

Species	Location	Allowable Circumstances	Required Conservation Measures	Expected Incidental Take
Little brown bat, Tri-colored bat	Statewide	Human health risk – need for removal of individual animals from human-habited structures.	Between May 15 and August 31, no exclusion of bats from maternity colonies, except for human health concerns. Department-permitted nuisance wildlife control operator with department-recognized certification in techniques associated with removal of bats. Use of exclusion devices that allow individual animals to escape. Manual collection of individual animals incapable of sustaining themselves; transport to a willing and appropriately permitted wildlife rehabilitator.	Little to no direct lethal taking expected.
		Public safety or property damage risk – need for tree removal, application of	Hibernacula: no tree removal, use of prescribed fire, or other land management action within a 250-foot radius buffer area from December 1 through April 30. Between September 1 and November 30, increase the buffer to a 1/4-mile radius	Little to no direct lethal taking expected.

		prescribed fire, or other land management actions affecting known roosts; removal of animals from known roosts.	with the following conditions: for timber harvests greater than 20 acres, retain snags and wolf trees (if not presenting public safety or property risk) and small tree groups up to 15 trees of 3-inch diameter at breast height (dbh) or greater, one tree group per 20 acres. Otherwise, document the need (public safety, property damage risk) for tree removal during this period and verify that no known roost trees exist in the buffer area. Tree removal and prescribed fire are permitted outside of these dates. Known roost trees: no tree removal, use of prescribed fire, or other land management action within a 150-foot radius buffer area from June 1 through July 31, if possible. Otherwise, document public safety or property damage risk. Department-permitted nuisance wildlife control operator with department-recognized certification in techniques associated with removal of bats. Use of exclusion devices that allow individual animals to escape. Manual collection of individual animals incapable of sustaining themselves; transport to a willing and appropriately permitted wildlife rehabilitator.	

E. Experimental populations of certain species are described in the table in this subsection, consistent with the identification of these species in state conservation plans. These populations are geographically distinct from naturally occurring populations and are not subject to the penalties and prohibitions authorized under § 29.1-568 of the Code of Virginia.

Species	Designated Location of Experimental Population	County or City	Take Exemptions
Eastern tiger salamander (Ambystoma tigrinum)	Lands located within the 2025 boundaries of the department's Big Woods Wildlife Management Area and The Nature Conservancy's Piney Grove Preserve	Sussex County	Take is authorized unless otherwise prohibited by other Virginia laws or regulations

RATIONALE:

Adoption of the updated and modified federal list of endangered and threatened wildlife species: Maintaining the currency of the Board's adoption of the federal list is essential to clarifying the state and federal status of each affected species and to ensuring compliance with our Cooperative Agreements with the U.S. Fish and Wildlife Service and the National Marine Fisheries Service regarding interagency management of these species.

Addition of Roanoke Logperch as a state endangered species: In 2025, the Roanoke Logperch was removed from the list of federal endangered species. The decision to de-list this species federally was mainly due to new information about its distribution in Virginia and longstanding efforts to reduce sediment loading through best management practices, implement habitat restoration, and restrict instream construction to outside of spawning periods. However, in Virginia, the species is still threatened by excessive fine sediment, mainly through runoff from agricultural and urban land uses adjacent to the streams in which it occurs. Staff think that the use of number and lengths of occupied streams as metrics for federal delisting did not adequately consider the quality and long-term viability of populations. For instance, Roanoke logperch populations in the Pigg River, Otter River, and Goose Creek – all genetically similar – exhibit low genetic diversity and low population size, compared to other Virginia streams. Listing Roanoke Logperch as state endangered will allow the Department to prioritize and implement projects such as dam removal, stream restoration, and species translocation (e.g., to support species reintroduction or genetic augmentation). As a state endangered species, a conservation plan will be developed that will identify specific goals for Roanoke Logperch recovery and delisting. The plan will allow for the designation and implementation of nonessential or experimental populations that will assist in the species' long-term conservation.

Delisting/removal of Emerald Shiner as a state threatened species: The Emerald Shiner has been listed as a state threatened species since 1992. Species records in Virginia are extremely rare, with the last known collection to be in the Clinch River in 1990 and the Powell River in 1968. Despite its rarity and peripheral nature in Virginia, it is considered to have the largest distribution of any North American minnows. Virginia is located on the eastern edge of range for the species and its rarity on our waters is not indicative of imperilment across its range.

4VAC15-340-60. Seines, traps, and nets prohibited in certain areas

SUMMARY:

The recommendation is to include Abrams Creek and its tributaries in Washington County to the list of waters in which seines, traps and nets are prohibited from use to protect populations of Tennessee Dace, a state endangered species.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-340-60. Seines, traps, and nets prohibited in certain areas.

A. It shall be unlawful to use seines and nets of any kind for the taking of fish from the public waters of the Roanoke (Staunton) and Dan Rivers in Campbell, Charlotte, Halifax, and Pittsylvania Counties and in the City of Danville; provided, however, this section shall not be construed to prohibit the use of hand-landing nets for the landing of fish legally hooked or the taking of fish from these waters pursuant to the provisions of 4VAC15-360. In addition, this section shall not be construed to prohibit the use of cast nets, also known as throw nets, for the taking of bait fish.

B. In Lick Creek and tributaries in Smyth and Bland Counties, in Bear Creek and in streams and their associated tributaries that flow into Hungry Mother Lake in Smyth County, in Laurel Creek and tributaries upstream of Highway 16 bridge in Tazewell and Bland Counties, in Susong Branch and Mumpower Creek in Washington County and the City of Bristol, Abrams Creek and its tributaries in Washington County, and in Timbertree Branch in Scott County, it shall be unlawful to use seines, nets, or traps; provided, however, this section shall not be construed to prohibit the use of hand-landing nets for the landing of fish legally hooked.

RATIONALE:

The Tennessee dace is a small, colorful minnow known from Virginia, Tennessee and Georgia. In Virginia, Tennessee dace are found in the upper Tennessee drainage with populations known from the north and middle forks of the Holston River. Due to its limited range and threats to its populations resulting from habitat degradation (sedimentation) associated with regional influences such as mining, instream impoundments for flood control, and deforestation, this species was listed state endangered in 1992. A robust population has recently been found in Abrams Creek and its tributaries in Washington County. To maintain this healthy population of this endangered species, staff recommends including Abrams Creek and its tributaries in Washington County to the list of waters where the use of seines, traps, and nets are prohibited from use to minimize unintended capture of Tennessee dace.

4VAC15-360-10. Fish: Aquatic Invertebrates, Amphibians, Reptiles, and Nongame Fish; Taking aquatic invertebrates, amphibians, reptiles, and nongame fish for private use.

SUMMARY:

The recommendation is to (1) include madtoms and in the definition of "fish bait" to recognize the use of these species in recreational fishing; (2) limit the number of madtoms held in aggregate, because of the declining status of these species in Virginia; (3) restrict the use of any madtoms collected for bait to the waters in which the animals were captured to remove the intentional or accidental introduction of animals into new watersheds and reduce impacts to native fish populations; 4) remove White Sucker and Northern Hogsucker from species that may be taken in unlimited numbers; and 5) update the Genus name for "minnows and chubs" for currency of information.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-360-10. Taking aquatic invertebrates, amphibians, reptiles, and nongame fish for private use.

A. Possession limits. Except as otherwise provided for in § 29.1-418 of the Code of Virginia, 4VAC15-20-130, 4VAC15-320-40, and this chapter, it shall be lawful to capture and possess live for private use and not for sale or export no more than one individual of any native or naturalized, as defined in 4VAC15-20-50, species of amphibian or reptile per physical address, and 20 individuals of any single native or naturalized, as defined in 4VAC15-20-50, species of aquatic invertebrate and nongame fish unless specifically listed in this subsection:

1. The following species may be taken in unlimited numbers from inland waters statewide: carp, mullet, ~~white sucker, northern hogsucker,~~ gizzard shad, threadfin shad, blueback herring (see 4VAC15-320-25 for anadromous blueback herring limits), white perch, yellow perch, alewife (see 4VAC15-320-25 for anadromous alewife limits), stoneroller (hornyhead), fathead minnow, golden shiner, goldfish, and Asian clams. Grass carp may only be harvested in unlimited numbers from public inland rivers and streams of the Commonwealth. It is unlawful to harvest grass carp from any public inland lake and reservoir. Anglers taking grass carp must ensure that all harvested grass carp are dead.

2. See 4VAC15-320-25 for American shad, hickory shad, channel catfish, white catfish, flathead catfish, and blue catfish limits.

3. For the purpose of this chapter, "fish bait" shall be defined as native or naturalized species of minnows and chubs (~~Cyprinidae~~ Leuciscidae), madtoms, crayfish, and hellgrammites. The possession limit for taking "fish bait" shall be 50 individuals in aggregate, of which no more than 20 individuals may be crayfish, and of which no more than 20 individuals may be madtoms, unless the person has purchased "fish bait" and has a receipt specifying the number of individuals purchased by species, except salamanders, madtoms, and crayfish, which cannot be sold pursuant to the provisions of 4VAC15-360-60 and 4VAC15-360-70. However,

stonerollers (hornyheads), fathead minnows, golden shiners, and goldfish may be taken and possessed in unlimited numbers as provided for in subdivision 1 of this subsection.

4. Any crayfish or madtom collected for use as fish bait may only be used as fish bait in the water body of capture.

5. The daily limit for bullfrogs shall be 15 and for snapping turtles shall be five. Snapping turtles shall only be taken from June 1 to September 30 and must have a minimum curved-line carapace length of 13 inches. Bullfrogs and snapping turtles may not be taken from the banks or waters of designated stocked trout waters.

6. The following species may not be taken or possessed in any number for private use: red-eared slider and all reptile and amphibian Species of Greatest Conservation Need designated in Virginia's 2015 Wildlife Action Plan.

7. Native amphibians and reptiles, as defined in 4VAC15-20-50, that are captured within the Commonwealth and possessed live for private use and not for sale may be liberated under the following conditions:

a. Period of captivity does not exceed 30 days;

b. Animals must be liberated at the site of capture;

c. Animals must have been housed separately from other wild-caught and domestic animals; and

d. Animals that demonstrate symptoms of disease or illness or that have sustained injury during their captivity may not be released.

8. Native or naturalized amphibians and reptiles, as defined in 4VAC15-20-50, may not be taken or possessed in any number from state or federal land without an appropriate permit or license.

B. Methods of taking species in subsection A of this section. Except as otherwise provided for in the Code of Virginia, 4VAC15-20-130, 4VAC15-320-40, and other regulations of the board, and except in any waters where the use of nets is prohibited, the species listed in subsection A of this section may only be taken (i) by hand, hook, and line; (ii) with a seine not exceeding four feet in depth by 10 feet in length; (iii) with an umbrella type net not exceeding five by five feet square; (iv) by small minnow traps with throat openings no larger than one inch in diameter; (v) with cast nets; and (vi) with hand-held bow nets with diameter not to exceed 20 inches and handle length not to exceed eight feet. Such cast net and hand-held bow nets when so used shall not be deemed dip nets under the provisions of § 29.1-416 of the Code of Virginia. Gizzard shad and white perch may also be taken from below the fall line in all tidal rivers of the Chesapeake Bay using a gill net in accordance with Virginia Marine Resources Commission recreational fishing regulations. Bullfrogs may also be taken by gigging or bow and arrow and, from private waters, by firearms no larger than.22 caliber rimfire. Snapping turtles may be taken for personal use with hoop nets not exceeding six feet in length with a throat opening not exceeding 36 inches.

C. Areas restricted from taking mollusks. Except as provided for in §§ 29.1-418 and 29.1-568 of the Code of Virginia, it shall be unlawful to take the spiny riversnail (Io fluvialis) in the Tennessee drainage in Virginia (Clinch, Powell, and the North, South, and Middle Forks of the Holston Rivers and tributaries). It shall be unlawful to take mussels from any inland waters of the Commonwealth.

D. Areas restricted from taking crustaceans. Except for the permitted collection of specimens as provided for in § 29.1-418 of the Code of Virginia or the permitted taking for zoological, educational, or scientific purposes as provided for in § 29.1-568 of the Code of Virginia, it shall be unlawful to take any species of crayfish in the Big Sandy River Basin in Virginia (Russell Fork, Pound River, Cranes Nest River, McClure River, Levisa Fork, Dismal Creek, Knox Creek, and tributaries).

E. Reduction of possession limits for native and naturalized amphibians and reptiles. Any person in possession of legally obtained native and naturalized amphibians and reptiles, as defined in 4VAC15-20-50, prior to the change in personal possession allowances in subsection A of this section, effective July 1, 2021, must declare such possession to the department by January 1, 2022, in a manner prescribed by the department. This declaration shall serve as authorization for possession only and is not transferable.

RATIONALE:

The introduction of a species outside of its natural range can pose a serious threat to native species in those environments because of competition for resources and possibility of hybridization. In aquatic systems, anglers commonly use fish as bait, which can allow a pathway to move fish between drainages. One group of species that is commonly used as fish bait is miniature catfish known as madtoms (*Noturus* spp.). In Virginia, the Orangefin Madtom (*N. gilberti*), a species native to the Roanoke Drainage, is now established in the upper James drainage, and the Margined Madtom (*N. insignis*), an Atlantic Slope and New River drainage species, is well established in the North Fork Holston River; both are likely the result of releases of bait fish. More recently, a single specimen of Margined Madtom was detected in the Clinch River in Russell County, considerably outside of its native range in the state. In the Clinch River, there are three native madtom species (Mountain, Yellowfin, and Stonecat), all of which are identified as Species of Greatest Conservation Need (SGCN) in the 2025 Virginia Wildlife Action Plan. Designation as an SGCN means that the species is in decline, requiring focused conservation efforts to prevent increased rarity or extirpation/extinction. Additionally, the Yellowfin Madtom is designated as a federally threatened species, and the Department has been actively involved in the recovery of this species with the goal of delisting. The recommended change aligns with conservation measures necessary to protect native madtoms, with the goal of avoiding continued declines and to avoid possible future designation of nonlisted species as threatened or endangered.

Staff also recommend that this regulation be updated to madtoms as species considered “fish bait” in recognition of their use by anglers as bait and to limit the take of these species, some of which are declining in Virginia. Specifically, staff recommend limiting the take of madtoms to 20 individuals in aggregate to reflect their vulnerability to overcollection.

Further, staff recommend removing northern hogsucker and white sucker from the list of species allowed to be taken in unlimited numbers. Northern Hogsucker (*Hypentelium nigricans*) and White Sucker (*Catostomus commersonii*) are native species found throughout the western two-thirds of Virginia. Northern Hogsuckers inhabit small streams to large rivers, while White Suckers occupy small streams to medium rivers. Populations of these species are vulnerable to pollution, dams, and invasive species introductions. As omnivores, they consume mollusks, aquatic insects, worms, and plant material, playing a key role in transferring energy through aquatic and terrestrial ecosystems. Suckers serve as prey for many native predators, including bass, musky, walleye, otters, mink, osprey, eagles, and herons. White Suckers also contribute nutrients to small streams during spring spawning migrations. Their populations are vulnerable to pollution, dams, and invasive species. It is the opinion of staff that these species play different roles in our ecosystems than do the other species currently on the unlimited list that are either invasive or exhibit biological traits that make them resilient to harvest pressure. In contrast, unlimited harvest of Northern Hogsucker and White Sucker could negatively impact their ecological functions and long-term viability.

Finally, as a housekeeping item, staff recommends updating the taxonomic name for the group of fishes known as “minnows and chubs” to reflect current information and reduce regulatory uncertainty.

4 VAC 15-350-60. Fish: Gigs, Grab Hooks, Trotlines, Snares, Etc.; Trotlines, juglines, limblines, or set poles.

SUMMARY:

The recommendation is to remove snapping turtles as a species for which it is legal to catch using trotlines, juglines, limblines, or set poles.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-350-60. Trotlines, juglines, limblines, or set poles.

A. Generally. Except as otherwise provided by local legislation and by subsections B and C of this section, and except on waters stocked with trout and within 600 feet of any dam, it shall be lawful to use trotlines, juglines (single hook, including one treble hook, and line attached to a float), limblines, or set poles for the purpose of taking nongame fish (daily creel (possession) and length limits for nongame fish are found in 4VAC15-320-25) ~~and snapping turtles (limits for snapping turtles are found in 4VAC15-360-10)~~, provided that no live bait is used. Notwithstanding the provisions of this section, live bait other than game fish may be used on trotlines to take catfish in the Clinch River in the Counties of Russell, Scott, and Wise. Any person setting or in possession of a trotline, jugline, limbline, or set pole shall have it clearly marked by permanent means with his name, address, and telephone number, and is required to check all lines at least once each day, remove all fish and animals caught, and completely remove all lines from the water, shoreline, and tree limbs when not in use. This requirement shall not apply to landowners on private ponds, nor to a bona fide tenant or lessee on private ponds within the bounds of land rented or leased, nor to anyone transporting any such device from its place of purchase.

B. Quantico Marine Reservation. It shall be unlawful to fish with trotlines in any waters within the confines of Quantico Marine Reservation.

C. Additional jugline requirements. Jugline sets (except as exempt under subsection A of this section) shall be restricted to 20 per angler and must be attended (within sight) by anglers at all times. Also, in addition to being labeled with the angler's name, address, and telephone number, jugs shall also be labeled with a reflective marker that encircles the jugs to allow for visibility at night.

RATIONALE:

By removing snapping turtles from the list of species allowed to be taken by the various forms of hook and line depicted in this regulation, the Department is striving to minimize the capture of non-target turtles, many of which are designated as Species of Greatest Conservation Need in Virginia's 2025 Wildlife Action Plan.

VIRGINIA DEPARTMENT OF WILDLIFE RESOURCES

BOARD OF WILDLIFE RESOURCES
REGULATION AMENDMENT RECOMMENDATIONS

Wildlife Division

May 2026

4VAC15-50-120
Game: Bear: Bear hound training season

Summary:

The recommendation is to amend the opening day of the bear hound training season established in subsection E from the first Monday in December to the Monday nearest December 2.

Recommended Language of Amendment:

4VAC15-50-120. Bear hound training season.

A. It shall be lawful to chase black bear with dogs, without capturing or taking, from August 1 through the last Saturday in September, both dates inclusive, in the Counties of Albemarle, Alleghany, Amherst, Augusta, Bath, Bedford, Bland, Botetourt, Brunswick, Buchanan, Carroll, Charlotte, Craig, Culpeper, Dickenson, Floyd, Franklin, Giles, Grayson (east of Route 16), Greene, Greensville, Highland, Lee, Lunenburg, Madison, Mecklenburg, Montgomery, Nelson, Page, Pulaski, Rappahannock, Roanoke (west of I-81), Rockbridge, Rockingham, Russell, Scott, Shenandoah, Smyth (except for the part southeast of I-81 and west of State Route 16), Tazewell, Warren, Washington (northwest of I-81), Wise, and Wythe and in the Cities of Chesapeake, Suffolk, and Virginia Beach.

B. It shall be lawful to chase black bear with dogs, without capturing or taking, from the Saturday prior to the third Monday in November and for 14 days following, both dates inclusive, in the Counties of Amelia, Brunswick, Campbell (east of the Norfolk Southern Railroad), Charles City, Cumberland, Dinwiddie, Essex, Gloucester, Greensville, Isle of Wight, James City, King and Queen, King George, King William, Lancaster, Lunenburg, Mathews, Middlesex, New Kent, Northumberland, Nottoway, Pittsylvania (east of the Norfolk Southern Railroad), Prince George, Richmond, Southampton, Surry, Sussex, Westmoreland, and York.

C. It shall be lawful to chase black bear with dogs, without capturing or taking, from the Saturday prior to the third Monday in November and for 12 days following, both dates inclusive, in the Counties of Appomattox and Buckingham.

D. It shall be lawful to chase black bear with dogs, without capturing or taking, from the Saturday prior to the third Monday in November and for eight days following, both dates inclusive, in the Counties of Charlotte, Halifax, Mecklenburg, and Prince Edward.

E. It shall be lawful to chase black bear with dogs, without capturing or taking, from the ~~first Monday of December~~ Monday nearest December 2 and for 19 days following, excluding Sundays, in the Counties of Albemarle, Alleghany, Amherst, Appomattox, Augusta, Bath, Bedford, Botetourt, Buckingham, Clarke, Culpeper, Fauquier, Frederick, Greene, Highland, Madison, Nelson, Page, Rappahannock, Rockbridge, Rockingham, Shenandoah, and Warren.

F. It shall be unlawful to use any firearm, bow, crossbow, or any weapon legally permissible for taking a black bear for the specific purpose of harvesting or killing a black bear while participating in the bear hound training season.

Rationale:

This recommendation corrects a staff oversight and aligns the regulation language with the Board's intention during the 2025-2026 regulation review and amendment process. During that regulation review and amendment process, the bear firearms season was reduced by 25 days within 24 northwestern counties to address bear population declines resulting from the impacts of mange, high female harvest levels, and other factors. On 18 of the 25 days removed from the bear firearms season, hounds could be used to hunt bear in 23 of these counties. To continue providing as much recreational opportunity as possible during the reduced firearms season in these 23 counties and without impacting bear populations, the Board of Wildlife Resources adopted regulation amendments intended to enable hunters to continue to chase bears with hounds, without harvesting them, on the 18 days that had been removed from the bear firearms season. Although the language of the regulation amendment adopted by the Board of Wildlife Resources would provide 18 days of bear hound training opportunity during some years (e.g., this past season), it would provide less than the intended number of days during other years (e.g., the upcoming 2026-2027 hunting season).

4VAC15-90-294

Game: Deer: Rehabilitation of cervids.

Summary:
The recommendation is to change the allowable date of release of rehabilitated deer fawns from December 31st to January 15th, which would allow fawns to remain in rehabilitation until the close of the regular deer hunting seasons.

Recommended language of amendment:

4VAC15-90-294. Rehabilitation of cervids.

A. For the purposes of this section:

"Juvenile" means any cervid less than one year of age on December 31 of the current calendar year.

"Adult" means any cervid greater than one year of age on December 31 of the current calendar year.

B. No person permitted by the department to rehabilitate cervids may rehabilitate or release adult cervids. Rehabilitators permitted by the department may transport and temporarily possess adult cervids solely for the purpose of immediate humane dispatch but must notify the department immediately after the deer has been dispatched.

C. Juvenile cervids requiring continued rehabilitation beyond January 15th of the subsequent calendar year ~~December 31 of the current calendar year~~ shall not be transported, possessed, released, or rehabilitated without written authorization from the department.

D. Cervids that originate within an area designated by the department for disease management shall not be transported or possessed for the purposes of rehabilitation. If such a cervid is brought to a rehabilitator permitted by the department, the permittee shall hold the cervid in isolation and immediately notify the department.

E. Cervids from any county (including the cities and towns therein) containing an area designated by the department for cervid disease management may be rehabilitated and released in the county of origin only if the cervid originated from a portion of the county outside the disease management area.

Rationale:
There is interest among permitted fawn rehabilitators to extend the time period for release of rehabilitated fawns until after the conclusion of the regular deer seasons (1st Saturday in January). This time extension may allow rehabilitated fawns additional time to acclimate without ongoing, elevated deer hunting pressure typically noted at the end of the regular deer seasons. There should be limited additional risk of habituation from this extension, provided that it only extends through January 15th. This recommendation does not allow the extension of rehabilitation beyond January 15th, even in localities which have late antlerless only deer seasons, unless the provisions of subsection C are met (written authorization from the Department).

4 VAC 15-90-550

Game: Deer: Special elk hunting license, Conservation License Program.

Summary:

The recommendation is to allow one special elk hunting license to be reserved for a conservation organization each license year for a period of up to five years.

Recommended language of amendment:

4VAC15-90-550. Special elk hunting license, Conservation License Program.

A. For the purposes of this section, the following words or terms shall have the following meanings, unless the context clearly indicates otherwise:

"Individual, cooperators, or wildlife conservation organizations" means those people or entities whose mission is to promote and ensure the conservation of Virginia's wildlife resources or to promote opportunities for hunting, fishing, trapping, boating, or other wildlife-related recreation within Virginia.

"Proceeds" means the amount of money received by the cooperator or organization from the transfer of a reserved special elk hunting license minus all expenses, including the fees associated with the license, and administrative costs directly attributable to the transfer of the permit or the implementation of the defined project.

B. Upon receipt of a valid Conservation License Program application from an officer or other designated official representative of any individual, cooperator, or wildlife conservation organization, the director or the director's designee shall verify the application materials and may select a program awardee ~~annually~~ for a period not to exceed five years.

C. The director shall establish a Conservation License Program Committee composed of a minimum of three individuals to review program applications and submit a recommendation to the director to reserve no more than one special elk hunting license per license year for a period not to exceed five years for a cooperator or organization whose application is deemed to provide the greatest benefit to elk conservation and elk-related recreation ~~in Virginia per license year~~. ~~This committee shall be composed of a minimum of three individuals and make a recommendation to the director each year.~~

D. ~~A cooperator or organization receiving~~ The awardee will receive a reserved special elk hunting license each license year during the award period, subject to the provisions of subsection G of this section. The awardee must direct all proceeds from the transfer of such reservation, toward ~~a~~ projects to improve and enhance elk habitat, elk populations, or elk-related recreation within the Elk Management Zone.

E. In coordination with the department, a cooperator or organization may transfer the reserved special elk hunting license to any person eligible to hunt in Virginia. The generation of funds from the transfer of the reserved special elk hunting license may only be conducted through a raffle.

F. A special elk hunting license transferee may be rejected if it is determined that the transferee has a hunting license revocation at the time they are drawn, been convicted of one or more wildlife violations within five years prior to the last date of the application period, or convicted of one or more violations involving elk. In determining the transferee's eligibility, the department shall take into account the nature and severity of the violations.

G. The department reserves the right to terminate a multi-year award if the cooperator or organization violates the intent of the Conservation License Program or breaches any agreement made with the department pertaining to the Conservation License Program or if the department alters special elk hunting license opportunities for elk management purposes.

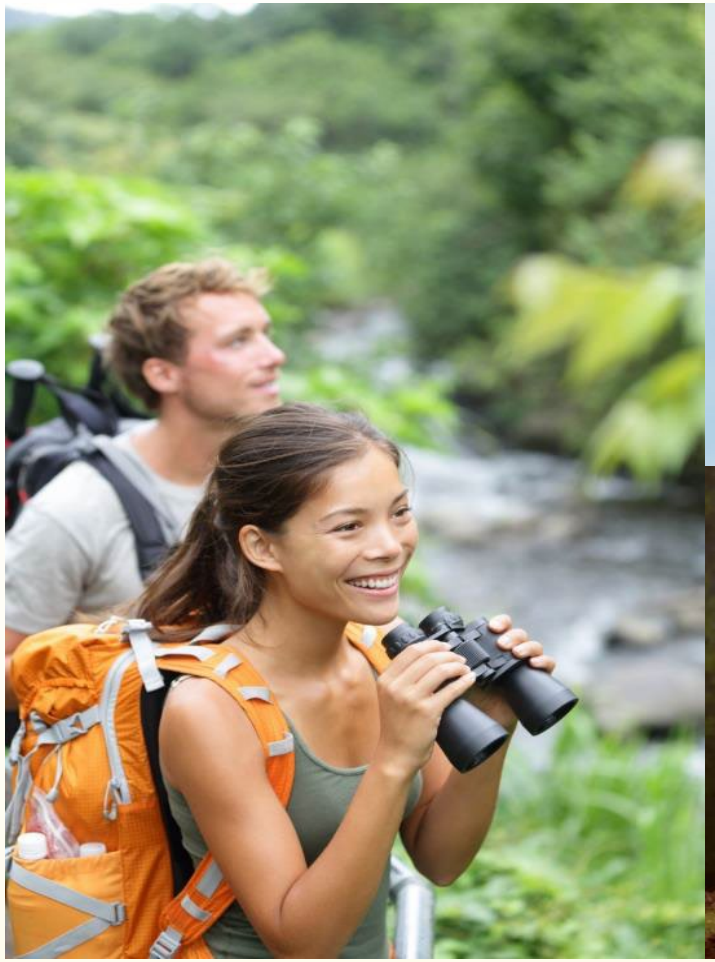
H. Cooperators or organizations are eligible to apply for and be selected for the Conservation License Program, regardless of the number of times they have applied or been selected in the past.

Rationale:

The recommended language change allowing an organization or cooperator to be awarded the opportunity to raffle one special elk hunting license each license year for a period of up to five years will promote a more sustainable, long-term funding mechanism for the elk program and all the work required for it, such as habitat improvement, land access, etc. The Elk Conservation License Program is an opportunity to provide an organization with a significant incentive (special elk hunting license) for people to spend money that will be directed towards projects that help elk populations and the elk hunt itself. The previous four habitat projects executed through the Elk Conservation License Program have all been elk-focused but have improved habitat for many wildlife species. All of the elk lottery application revenue goes to the Department's general fund and not to the elk program. Therefore, maximizing the ability of this one separate elk license to generate funding that will sustain the elk program is crucial.

Currently, DWR notifies the winning organization in early May, and they must work quickly to organize a raffle and online resources for inclusion in the Department's late May announcement of the elk lottery winners. This short planning time frame does not afford sufficient opportunity to organize and maximize the profitability of a raffle package. A longer planning time frame would foster much greater opportunity to solicit donations from individuals or businesses to add value and prizes to the raffle, and thus, the overall attractiveness of the raffle to prospective participants. Further, a longer planning time frame would offer greater opportunities to effectively advertise and distribute raffle materials. Previous winning organizations have stated that given more time to solicit donations and build their raffle package, they would expect to be able to raise significantly more money to benefit elk conservation and recreation.

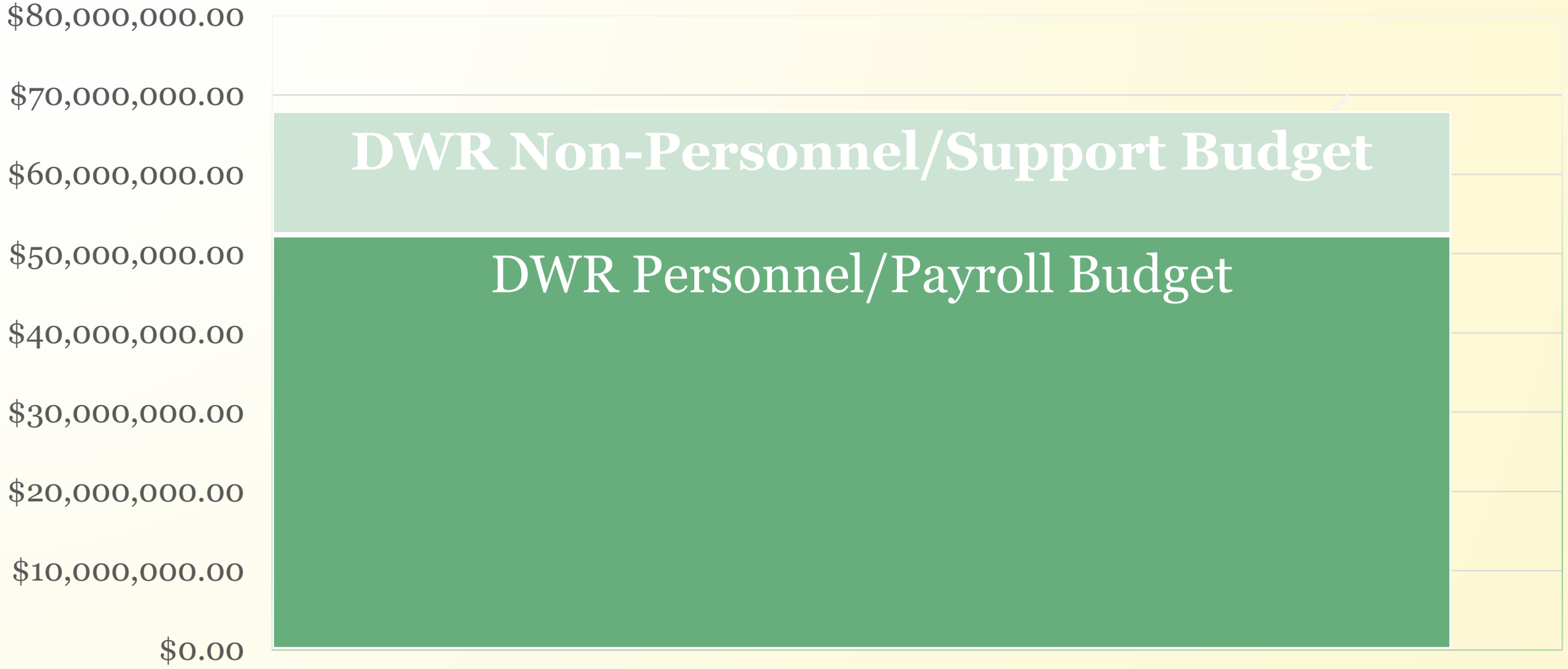
Board of Wildlife Resources
Finance, Audit, & Compliance Committee Report



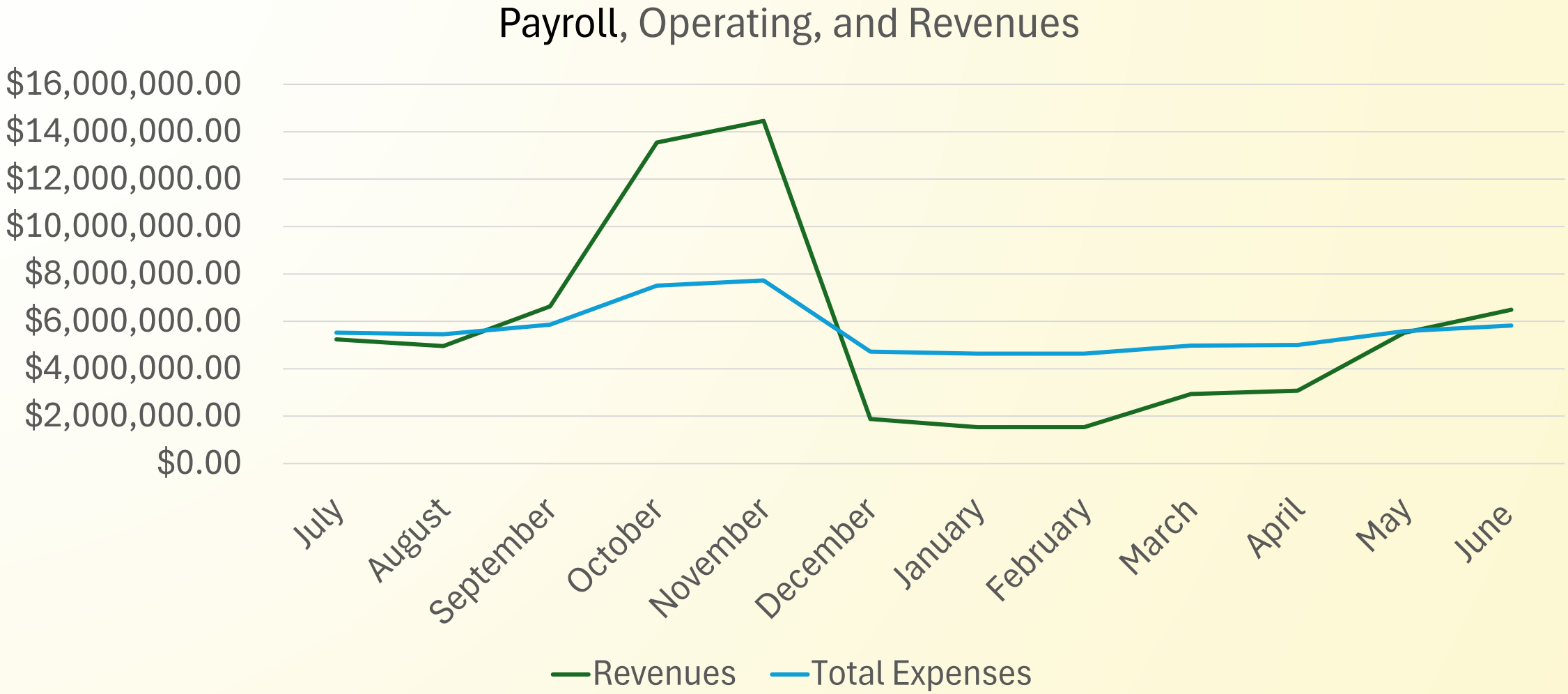
May 20-21, 2026

FY2027 Operating Budget
Tim Springer, DWR Budget Manager

FY2027 Operating Budget Proposal of $67,973,436



FY 2027 Projected Cash Flow



FY27 Budget Highlights

- **Reduced budget** due to lower than desired revenues, increased payroll costs and unfunded mandates, and increased spending, inflationary influences, and other obligations.
- Targeted reduction from our FY2026 budget is better aligned with the latest revenue trends for specific funds and will allow for dedicated "carve-outs" **to payback loan obligations, restore fund reserves, and support capital/infrastructure needs.**
- Individual divisions focused primarily on revising their **operational expenses within specific revenue sources and monthly spending limits;** these monthly spending limits are tied to the revenue cycle and fluctuations throughout the year.
- DWR's **current personnel share of the total budget is 78 percent**, which restricts the agency's ability to properly fund our operational support, or non-personnel, needs.

Examples of FY27 Budget Comparisons to FY26

- Reducing payroll by targeting **current and anticipated vacancies and part-time hours** ($5.1M)
- **Program Reduction** for trout, channel catfish, hybrid striped bass, F1 largemouth bass, grass carp ($450K)
- Defer the **16th Law Enforcement/Conservation Police Officer Academy** ($200K+)
- Convert **Paid Overtime** to Overtime Leave ($200K)
- Align **District Offices and IT Assets** with operational and storage needs ($498K)
- Reduce **Travel/Training** ($365K); **Printing** of Digests ($100K); **Educational** Programming ($227K)
- Reduce **Habitat/Maintenance work** for WMAs and Streams/Impoundment ($550K)
- Reduce **Human-wildlife conflict response** ($233K)

FY26-27 Non-Personnel Budget Summary

Division	Non-Personnel (FY27)	Non-Personnel (FY26)	Difference
Finance	$279,400	$400,000	($120,600)
Boating	$106,160	$160,000	($53,840)
Human Resources	$19,150	$100,000	($80,850)
Aquatics	$2,058,455	$2,580,000	($521,544)
Outreach	$1,687,435	$1,900,000	($212,564)
Law	$3,082,730	$3,860,000	($777,269)
Shared Services	*$5,620,218*	*$5,400,000*	*$220,218*
Capital	$342,363	$393,374	($51,011)
Wildlife	$2,250,988	$2,730,000	($479,012)
Non-Game	$945,829	$1,920,000	($974,170)
Executive Office	$304,860	$460,000.00	($155,139)
Total	**$16,697,591**	**$19,903,374**	**($3,205,782)**

FY26-27 Personnel Budget Summary

Division	Personnel (FY27)	Personnel (FY26)	Difference
Finance	$3,702,047.31	$4,320,000.00	($617,952.69)
Boating	$2,056,286.53	$2,140,000.00	($83,713.47)
Human Resources	$1,089,099.00	$1,050,000.00	$39,099.00
Aquatics	$6,927,622.68	$7,428,661.68	($501,039.00)
Outreach	$3,233,153.00	$3,331,710.00	($98,557.00)
Law	$21,604,627.00	$21,580,000.00	$24,627.00
Capital	$753,769.00	$393,374.00	$360,395.00
Wildlife	$7,755,770.00	$8,680,000.00	($924,230.00)
Non-Game	$2,386,713.00	$2,340,000.00	$46,713.00
Executive Office	$1,766,758.00	$2,430,000.00	($663,242.00)
Total	**$51,275,845.52***	**$53,693,745.68**	**($2,417,900.16)**
**Staff Level Reduction (10.7% attrition rate) will save even more.*			*($2,758,464.28)*

FY26-27 Overall Budget Summary

Division	Personnel (FY27)	Non-Personnel (FY27)	Totals
Finance	$3,702,047	$279,400	$3,981,447
Boating	$2,056,286	$106,160	$2,162,446
Human Resources	$1,089,099	$19,150	$1,108,249
Aquatics	$6,927,624	$2,058,455	$8,986,078
Outreach	$3,233,153	$1,687,435	$4,920,588
Law	$21,604,627	$3,082,730	$24,687,357
Shared Services	$0	*$5,620,218*	$5,620,218
Capital	$753,769	$342,363	$1,096,132
Wildlife	$7,755,770	$2,250,988	$10,006,758
Non-Game	$2,386,713	$945,829	$3,332,542
Executive Office	$1,766,758	$304,860	$2,071,618
Total	**$51,275,845**	**$16,697,591**	**$67,973,436**
End of Year **Total**	*$48,517,381*	**$16,697,591**	*$65,214,972*

Personnel: Classified and Wage Positions

Division	Classified (FY27)	Wage (FY27)	Classified (FY26)	Wage (FY26)
Finance	27	4	30	3
Boating	21	1	25	1
Human Resources	9	-	9	1
Aquatics	64	17	70	20
Outreach	25	9	25	9
Law	191	1	198	2
Capital	7	-	2	0
Wildlife	67	18	76	22
Non-Game	20	4	17	5
Executive Office	9	2	14	1
Total	**440**	**56**	**466**	**64**

FY27 Revenue Summary

Fund	FY2027 Personnel	FY2027 Non-Personnel	FY2027 Budget	FY2027 Revenue
National Forest Permit	0	$275,156	$275,156	$275,156
Boat	$7,409,363	$192,091	$7,478,312	$7,500,000
Nongame	$522,346	$221,668	$538,162	$543,029
Game Protection	$29,975,790	$12,349,632	$43,295,671	$45,000,000
General	$203,562	$5,425	$203,562	$200,000
Federal	$13,164,785	$3,653,619	$15,935,055	$16,000,000
Total	**$51,275,846**	**$16,697,591**	**$67,973,436**	**$69,765,704**
Budget-Revenue Variance = $1,792,268				

FY2027 Capital Budget
John Kirk, DWR Capital Programs Manager

FY 2026 Capital Budget Proposal

Project	Grand/Fund	Estimated Budget	DWR Portion	Other Funding
Big Survey	48D	$400,000	$100,000	$300,000
Demo Structures Lands End	48D	$500,000	$125,000	$375,000
Montebello Asbestos Removal	09403	$400,000	$400,000	$0
FEMA Repairs Buller and Havens	09403	TBD	-	FEMA
Chickahominy Shooting Range	48D	$900,000	$90,000	$810,000
Lake Burton Fishing Pier	09403	$500,000	-	$500,000
Bathroom/Office Horsepen	48D	$500,000	$125,000	$375,000
Upper and Lower Powhatan Dam Repair	BOND	$495,000	-	$495,000
Laurel Bed Dam Release Gate	09403	$250,000	$250,000	-
Lake Shenandoah	BOND	$3,000,000	-	$3,000,000
Whitehorn Parking Lot Work	F107D/07BAR	$150,000	$37,500	$112,500
Gloucester Re-Deck & Pave	F107D/07BAR	$1,000,000	-	$175,000
Lake Burke Parking Lot Repaving	F107D/07BAR	$400,000	$100,000	$300,000
Coles Point Placeholder	F107D / 07BAR	$500,000	-	$125,000
Gardys Mill Ramp and Pier	F107D/07BAR	$500,000	-	$400,000
TOTAL		**$9,495,000**	**$1,227,500**	**$6,967,500**

Questions?

Finance, Audit & Compliance
Action

Motion to recommend to the full Board for consideration the **FY 2027 Operating Budget for $67,973,436 and Capital Budget for $9,495,000,** as presented.

Board of Wildlife Resources
Finance, Audit, & Compliance Committee Report

May 20-21, 2026

Regulatory Framework

Code of Virginia (§29.1-103.16), "the Board of Wildlife Resources may, by regulation, adopt revisions to fees charged for all hunting, fishing, and trapping licenses authorized under Articles 1 (§ 29.1-300 et seq.) and 2 (§ 29.1-340 et seq.) of Chapter 3 of Title 29.1. These fees may not be raised or lowered more than once every three years and by not more than $5 at any one time for resident licenses or $50 at any one time for nonresident licenses."

Previous Increases

- Annual licenses last increased for 2012 season
- Lifetime licenses and Boat Registration/Title Fees increased in 2019

Proposed Increases

- Varying increases for residents and nonresidents
- Youth, apprentice, disabled, and veteran licenses are not affected

Key Takeaways

Revenue Impact

- Estimated increase is $6.9 million for Hunting, Fishing, Trapping License revenue; $550K for Boat Registration/Title
- Projected 3% churn
- Focus on high-volume licenses that support fee increases without significant participation loss
- Increased fees still not match inflation or CPI

Supports Sustainability

- Increase reflects costs of delivering services to the Commonwealth
- Aligns fees with regional peers delivering similar services
- Provides for ongoing review similar to other agency regulation cycles

Supports Agency Priorities

- Exceptions for agency priorities to connect youth to the outdoors
- Supports Virginia's disabled veterans

Fee Alignment

The proposed updates are consistent with neighboring states serving several purposes:

Regional competitiveness

- Keep fees in line with neighboring states.

Supports fair market value

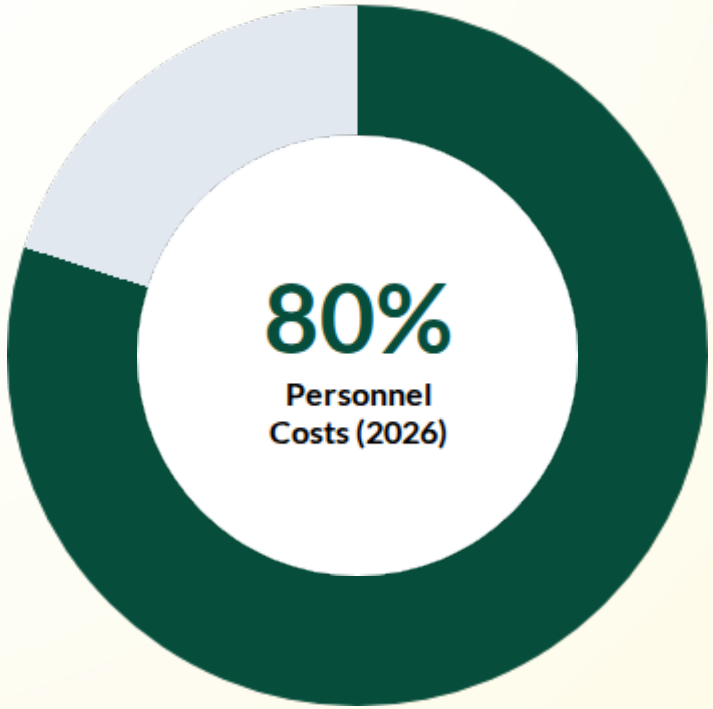
- Delivering services that are similar in scope and quality to nearby states.

Sustainability

- Aligning with regional peers allows us to justify increases that are reasonable and aligned with what public pays in similar states.

❖ ***Fees in Regulation are without the $1 "agent fee" that Customers also pay.***

Changing Cost Structure



- Personnel Expenses (Salaries/Benefits)
- Non-Personnel

Historical context: Personnel costs moved from 60% in FY12 to near 80% today with no new state funding for salary increases.

The Maintenance Backlog

$275M

Current Liability

Deferred Capital Maintenance

Demand for public access to lands and waters continues to outpace infrastructure reinvestment. Critical needs include:

- Hatchery Renovations & Dam Safety
- Boating Access Site Maintenance
- WMA Infrastructure (Roads/Bridges)

License Fees vs. Inflation (2012 - 2026)

Erosion of Field Buying Power (2026)

31.5%

Loss in Effective Revenue

A $23.00 license today provides the equivalent impact of only $15.75 in 2012 dollars.

Impact on Mission

- **Resource Management:** Nearly one-third less funding available for habitat restoration per participant.
- **Infrastructure:** Deferred maintenance on public boat ramps and Wildlife Management Areas.
- **Enforcement:** Increased operational costs for vehicles and specialized safety equipment.

Licenses NOT increasing

Resident Senior Citizen Annual License to Hunt or Fish or Trap

Resident or Nonresident Junior/Youth Annual Licenses to Hunt

Resident Youth Combination Annual License to Hunt, and to hunt bear, deer, and turkey, to hunt with archery equipment during archery hunting season, and to hunt with muzzleloading guns during muzzleloading hunting season

Resident Infant and Junior Lifetime Licenses to Hunt or Fish or Trap

Resident or Nonresident Junior Deer and Turkey Annual Hunting Licenses

Totally and Permanently Disabled Resident Special Lifetime License to Hunt or Fish or Trap

Service-Connected Totally and Permanently Disabled Veteran Resident Lifetime License to Hunt or Freshwater Fish or Trap

Resident and Nonresident Annual Bonus Deer Permit

Resident or Nonresident Fox Hunting Annual License to hunt foxes on horseback with hounds without firearms

Resident and Nonresident Special Elk Annual Hunting Licenses

Foxhound Training Preserve License

Resident or Nonresident Annual Fishing License for Partially Disabled Veterans

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

Type of License	Current	Proposed
Virginia Resident Licenses to Hunt		
One-year Resident License to Hunt (16+)	$22.00	**$27.00**
Two-year Resident License to Hunt (16+)	$43.00	**$53.00**
Three-year Resident License to Hunt (16+)	$64.00	**$79.00**
Four-year Resident License to Hunt (16+)	$85.00	**$105.00**
Resident Three-Day Trip License to Hunt	$11.00	**$16.00**
County or City Resident License to Hunt	$15.00	**$20.00**
Resident Sportsman License to Hunt and Freshwater Fish	$99.00	**$129.00**
Additional Hunting Privileges		
Resident Deer and Turkey Hunting License (16+)	$22.00	**$27.00**
Resident Archery License to Hunt	$17.00	**$22.00**
Resident Bear Hunting License	$20.00	**$25.00**
Resident Muzzleloading License to Hunt	$17.00	**$22.00**
Resident Elk Hunt Lottery Application	$15.00	**$20.00**

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

Type of License	Current	Proposed
Resident Lifetime License to Hunt (By Age at Purchase)		
Through 44 years of age	$265.00	**$270.00**
45 through 50 years of age	$215.00	**$220.00**
51 through 55 years of age	$165.00	**$170.00**
56 through 60 years of age	$115.00	**$120.00**
61 through 64 years of age	$65.00	**$70.00**
65 years of age and older	$25.00	**$30.00**

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

Type of License	Current	Proposed
Virginia Nonresident Licenses to Hunt		
Nonresident License to Hunt (16+)	$110.00	**$135.00**
Nonresident Three-Day Trip License to Hunt	$59.00	**$74.00**
Nonresident Lifetime License to Hunt	$580.00	**$630.00**
Additional Hunting Privileges		
Nonresident Deer and Turkey Hunting License (16+)	$85.00	**$135.00**
Nonresident Bear Hunting License	$150.00	**$175.00**
Nonresident Archery License to Hunt	$30.00	**$45.00**
Nonresident Muzzleloading License to Hunt	$30.00	**$45.00**
Nonresident Shooting Preserve License to Hunt	$22.00	**$27.00**
Nonresident Elk Hunt Lottery Application	$20.00	**$25.00**
Miscellaneous Licenses or Permits to Hunt		
Waterfowl Hunting Stationary Blind in Public Waters	$22.50	**$27.50**
Waterfowl Hunting Floating Blind in Public Waters	$40.00	**$45.00**
Public Access Lands for Sportsmen Permit (Hunt, Trap, Fish)	$17.00	**$22.00**

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

Type of License	Current	Proposed
Virginia Resident Licenses to Trap		
One-year Resident License to Trap (16+)	$45.00	**$50.00**
Two-year Resident License to Trap (16+)	$89.00	**$99.00**
Three-year Resident License to Trap (16+)	$133.00	**$148.00**
Four-year Resident License to Trap (16+)	$177.00	**$197.00**
County or City Resident License to Trap	$20.00	**$25.00**
Resident Senior Citizen Lifetime License to Trap (65+)	$25.00	**$30.00**
Virginia Nonresident Licenses to Trap		
Nonresident License to Trap	$205.00	**$255.00**

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

Type of License	Current	Proposed
Virginia Resident Licenses to Fish		
One-year Resident License to Freshwater Fish	$22.00	**$27.00**
Two-year Resident License to Freshwater Fish	$43.00	**$53.00**
Three-year Resident License to Freshwater Fish	$64.00	**$79.00**
Four-year Resident License to Freshwater Fish	$85.00	**$105.00**
County or City Resident License to Freshwater Fish	$15.00	**$20.00**
Resident License to Fish in Designated Stocked Trout Waters	$22.00	**$27.00**
Resident License to Freshwater and Saltwater Fish	$38.50	**$43.50**
Resident License to Freshwater Fish for Five Consecutive Days	$13.00	**$18.00**
Resident License to Freshwater and Saltwater Fish (5 Days)	$23.00	**$27.00**
Miscellaneous Permits to Fish		
Permit to Fish for One Day at Designated Stocked Trout Areas	$7.00	**$12.00**

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

Type of License	Current	Proposed
Resident Special Lifetime License to Freshwater Fish (By Age)		
Through 44 years of age	$265.00	**$270.00**
45 through 50 years of age	$215.00	**$220.00**
51 through 55 years of age	$165.00	**$170.00**
56 through 60 years of age	$115.00	**$120.00**
61 through 64 years of age	$65.00	**$70.00**
65 years of age and older	$25.00	**$30.00**
Resident Special Lifetime License to Fish in Designated Stocked Trout Waters (By Age)		
Through 44 years of age	$265.00	**$270.00**
45 through 50 years of age	$215.00	**$220.00**
51 through 55 years of age	$165.00	**$170.00**
56 through 60 years of age	$115.00	**$120.00**
61 through 64 years of age	$65.00	**$70.00**
65 years of age and older	$25.00	**$30.00**

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

Type of License	Current	Proposed
Virginia Nonresident Licenses to Fish		
Nonresident License to Freshwater Fish	$46.00	**$71.00**
Nonresident License to Freshwater Fish in Designated Stocked Trout Waters	$22.00	**$47.00**
Nonresident License to Freshwater and Saltwater Fish	$70.00	**$95.00**
Nonresident License to Freshwater Fish for One Day	$7.00	**$19.00**
Nonresident License to Freshwater Fish for Five Consecutive Days	$20.00	**$35.00**
Nonresident License to Freshwater and Saltwater Fish (5 Days)	$30.00	**$45.00**
Nonresident Special Lifetime License to Freshwater Fish	$580.00	**$630.00**

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-380-120. Certificate of registration and titling fees.

Type of Fee	Current	Proposed
Certificates of Registration		
Temporary registration certificate	$0.00	**$15.00**
For a motorboat under 16 feet	$32.00	**$37.00**
For a motorboat 16 feet to less than 20 feet	$36.00	**$41.00**
For a motorboat 20 feet to less than 40 feet	$42.00	**$47.00**
For a motorboat 40 feet and over	$50.00	**$55.00**
First 10 actively registered motorboats (same owner)	$32.00	**$37.00**
More than 10 actively registered motorboats	$26.00	**$31.00**
Duplicate certificate of registration or decal	$14.00	**$19.00**
Certificates of Title		
Titling fee	$10.00	**$15.00**
Duplicate title	$7.00	**$12.00**
Change of motor on title	$7.00	**$12.00**
Record supplemental lien on watercraft	$10.00	**$15.00**

NEW CAMPING AUTHORIZATION

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-155. Camping on Wildlife Management Areas and other department-owned or department-managed lands.

- A $10 camping authorization fee is proposed to offset the increasing costs of WMA land maintenance and habitat protection.

- This fee addresses long-term camping impacts and aligns Virginia's WMAs with other managed natural spaces while remaining significantly below state park rates ($16-$21).

Projected Annual Revenue: $23,450

Basic License Comparison – Surrounding States

State	Hunting License	Hunters % of Total Population	Fishing License	Anglers % of Total Population
Delaware	$39.50	1.49%	$8.50	7.87%
Maryland	$35.00	1.81%	$33.00	4.43%
Tennessee	$33.00	9.94%	$33.00	12.11%
New Jersey	$31.50	0.71%	$22.50	1.71%
North Carolina	$30.00	5.51%	$30.00	12.54%
Kentucky	$28.54	6.78%	$23.00	11.39%
Virginia	$28.00	2.83%	$28.00	6.35%
New York	$22.00	2.73%	$25.00	4.31%
Pennsylvania	$20.97	7.78%	$27.97	8.11%
West Virginia	$19.00	15.03%	$19.00	17.40%
South Carolina	$12.00	3.66%	$10.00	9.45%
Average	**$27.23**		**$23.63**	

Boat Title and Registration Comparison

State	Title Fee	Reg <16 ft	16-26 ft	26-40 ft	>40 ft	Duration
Delaware	No title required	$60	$120	$180	$300+	3 years
Maryland	$20	$70	$70	$70	$70	2 years
Tennessee	No title required	$35	$71	$107	$142	3 years
New Jersey	$60	$12	$28	$52	$80	1 year
North Carolina	$36	$96	$131	$191	$191	3 years
Kentucky	$9	$22.20	$42.28	$52.85	$68.71	1 year
Virginia	$15	$37	$41	$47	$55	3 years
New York	$50	$22.50	$45	$75	$75	3 years
Pennsylvania	$30	$26	$39	$52	$52	2 years
West Virginia	$15	$30	$45	$60	$75	3 years
South Carolina	$20 (Boat) / $10 (Motor)	$10	$10	$10	$10	1 year

**approximate lengths*

Recovering Direct and Fulfillment Costs

Virginia Migratory Waterfowl (optional) Conservation Stamp

Waterfowl Hunting Floating and Stationary Blind (Duplicate) Decals

Waterfowl Hunting Blind (Optional) Plates

CITES Tags

Quota Hunt Applications

Questions?

Finance, Audit & Compliance Action

I move that the Finance, Audit, and Compliance Committee recommend to the Board of Wildlife Resources that the license and boat fee proposed increases, as presented by staff, be put out for public comment.

4VAC15-20-65. Definitions and Miscellaneous: In General; Hunting, Trapping, and Fishing License and Permit Fees.

SUMMARY:

The recommendation is to update certain hunting, fishing, and trapping fees up to the amount allowed by law to offset increased costs associated with managing fish and wildlife populations and the habitats that support them and providing and maintaining access to these resources.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-65. Hunting, trapping, and fishing license and permit fees.

In accordance with the authority of the board under subdivision 16 of § 29.1-103 of the Code of Virginia, the following fees are established for hunting, trapping, and fishing licenses and permits:

Virginia Resident Licenses to Hunt	
Type license	Fee
One-year Resident License to Hunt, for licensees 16 years of age or older	~~$22.00~~ $27.00
Two-year Resident License to Hunt, for licensees 16 years of age or older	~~$43.00~~ $53.00
Three-year Resident License to Hunt, for licensees 16 years of age or older	~~$64.00~~ $79.00
Four-year Resident License to Hunt, for licensees 16 years of age or older	~~$85.00~~ $105.00
Resident Three-Day Trip License to Hunt	~~$11.00~~ $16.00
County or City Resident License to Hunt in County or City of Residence Only, for licensees 16 years of age or older	~~$15.00~~ $20.00
Resident Senior Citizen Annual License to Hunt, for licensees 65 years of age or older	$8.00
Resident Junior License to Hunt, for licensees 12 through 15 years of age, optional for licensees younger than 12 years of age	$7.50
Resident Youth Combination License to Hunt, and to hunt bear, deer, and turkey, to hunt with archery equipment during archery hunting season, and to hunt with muzzleloading guns during muzzleloading hunting season, for licensees younger than 16 years of age	$15.00
Resident Sportsman License to Hunt and Freshwater Fish, and to hunt bear, deer, and turkey, to hunt with archery equipment during archery hunting season, to hunt with muzzleloading guns during muzzleloading hunting season, to fish in designated stocked trout waters (also listed under Virginia Resident Licenses to Fish)	~~$99.00~~ $129.00
Resident Hunting License for Partially Disabled Veterans	$11.00
Resident Infant Lifetime License to Hunt	$130.00
Resident Junior Lifetime License to Hunt, for licensees younger than 12 years of age at the time of purchase	$260.00
Resident Lifetime License to Hunt, for licensees at the time of purchase:	
through 44 years of age	~~$265.00~~ $270.00
45 through 50 years of age	~~$215.00~~ $220.00

51 through 55 years of age	~~$165.00~~ $170.00
56 through 60 years of age	~~$115.00~~ $120.00
61 through 64 years of age	~~$65.00~~ $70.00
65 years of age and older	~~$25.00~~ $30.00
Totally and Permanently Disabled Resident Special Lifetime License to Hunt	$15.00
Service-Connected Totally and Permanently Disabled Veteran Resident Lifetime License to Hunt or Freshwater Fish (also listed under Virginia Resident Licenses to Fish)	no fee

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Virginia Resident Licenses for Additional Hunting Privileges	
Type license or permit	Fee
Resident Deer and Turkey Hunting License, for licensees 16 years of age or older	~~$22.00~~ $27.00
Resident Junior Deer and Turkey Hunting License, for licensees younger than 16 years of age	$7.50
Resident Archery License to Hunt with archery equipment during archery hunting season	~~$17.00~~ $22.00
Resident Bear Hunting License	~~$20.00~~ $25.00
Resident Muzzleloading License to Hunt during muzzleloading hunting season	~~$17.00~~ $22.00
Resident Bonus Deer Permit	$17.00
Resident Fox Hunting License to hunt foxes on horseback with hounds without firearms (not required of an individual holding a general License to Hunt)	$22.00
Resident Elk Hunt Lottery Application	~~$15.00~~ $20.00
Resident Special Elk Hunting License (not required outside of the Elk Management Zone and only awarded to individuals through a department elk license program)	$40.00
Virginia Nonresident Licenses to Hunt	
Type license	Fee
Nonresident License to Hunt, for licensees 16 years of age or older	~~$110.00~~ $135.00
Nonresident Three-Day Trip License to Hunt	~~$59.00~~ $74.00
Nonresident Youth License to Hunt, for licensees:	
younger than 12 years of age	$12.00
12 through 15 years of age	$15.00
Nonresident Youth Combination License to Hunt, and to hunt bear, deer, and turkey, to hunt with archery equipment during archery hunting season, and to hunt with muzzleloading guns during muzzleloading hunting season, for licensees younger than 16 years of age	$30.00
Nonresident Annual Hunting License for Partially Disabled Veterans	$55.00
Nonresident Annual Hunting License for Totally and Permanently Disabled Veterans	$27.50
Nonresident Infant Lifetime License to Hunt	$275.00
Nonresident Lifetime License to Hunt	~~$580.00~~ $630.00
Virginia Nonresident Licenses for Additional Hunting Privileges	

Type license or permit	Fee
Nonresident Deer and Turkey Hunting License, for licensees:	
16 years of age or older	~~$85.00~~ $135.00
12 through 15 years of age	$15.00
younger than 12 years of age	$12.00
Nonresident Bear Hunting License	~~$150.00~~ $175.00
Nonresident Archery License to Hunt with archery equipment during archery hunting season	~~$30.00~~ $45.00
Nonresident Muzzleloading License to Hunt during muzzleloading hunting season	~~$30.00~~ $45.00
Nonresident Shooting Preserve License to Hunt within the boundaries of a licensed shooting preserve	~~$22.00~~ $27.00
Nonresident Bonus Deer Permit	$30.00
Nonresident Fox Hunting License to hunt foxes on horseback with hounds without firearms (not required of an individual holding a general License to Hunt)	$110.00
Nonresident Elk Hunt Lottery Application	~~$20.00~~ $25.00
Nonresident Special Elk Hunting License (not required outside of the Elk Management Zone and only awarded to individuals through a department elk license program)	$400.00
Miscellaneous Licenses or Permits to Hunt	
Type license or permit	Fee
Waterfowl Hunting Stationary Blind in Public Waters License	~~$22.50~~ $27.50
Waterfowl Hunting Floating Blind in Public Waters License	~~$40.00~~ $45.00
Foxhound Training Preserve License	$17.00
Public Access Lands for Sportsmen Permit to Hunt, Trap, or Fish on Designated Lands (also listed under Miscellaneous Licenses or Permits to Fish)	~~$17.00~~ $22.00
Virginia Migratory Waterfowl Conservation Stamp	$14.00
Virginia Resident and Nonresident Licenses to Trap	
Type license	Fee
One-year Resident License to Trap, for licensees 16 years of age or older	~~$45.00~~ $50.00
Two-year Resident License to Trap, for licensees 16 years of age or older	~~$89.00~~ $99.00
Three-year Resident License to Trap, for licensees 16 years of age or older	~~$133.00~~ $148.00
Four-year Resident License to Trap, for licensees 16 years of age or older	~~$177.00~~ $197.00
County or City Resident License to Trap in County or City of Residence Only	~~$20.00~~ $25.00
Resident Junior License to Trap, for licensees younger than 16 years of age	$10.00
Resident Senior Citizen License to Trap, for licensees 65 years of age or older	$8.00
Resident Senior Citizen Lifetime License to Trap, for licensees 65 years of age or older	~~$25.00~~ $30.00
Totally and Permanently Disabled Resident Special Lifetime License to Trap	$15.00
Service-Connected Totally and Permanently Disabled Veteran Resident Lifetime License to Trap	$15.00
Nonresident License to Trap	~~$205.00~~ $255.00
Virginia Resident Licenses to Fish	

Type license	Fee
One-year Resident License to Freshwater Fish	~~$22.00~~ $27.00
Two-year Resident License to Freshwater Fish	~~$43.00~~ $53.00
Three-year Resident License to Freshwater Fish	~~$64.00~~ $79.00
Four-year Resident License to Freshwater Fish	~~$85.00~~ $105.00
County or City Resident License to Freshwater Fish in County or City of Residence Only	~~$15.00~~ $20.00
Resident License to Freshwater Fish, for licensees 65 years of age or older	$8.00
Resident License to Fish in Designated Stocked Trout Waters	~~$22.00~~ $27.00
Resident License to Freshwater and Saltwater Fish	~~$38.50~~ $43.50
Resident License to Freshwater Fish for Five Consecutive Days	~~$13.00~~ $18.00
Resident License to Freshwater and Saltwater Fish for Five Consecutive Days	~~$23.00~~ $27.00
Resident Sportsman License to Hunt and Freshwater Fish, and to hunt bear, deer, and turkey, to hunt with archery equipment during archery hunting season, to hunt with muzzleloading guns during muzzleloading hunting season, to fish in designated stocked trout waters (also listed under Virginia Resident Licenses to Hunt)	~~$99.00~~ $129.00
Resident Fishing License for Partially Disabled Veterans	$11.00
Resident Infant Lifetime License to Fish	$130.00
Resident Special Lifetime License to Freshwater Fish, for licensees at the time of purchase:	
through 44 years of age	~~$265.00~~ $270.00
45 through 50 years of age	~~$215.00~~ $220.00
51 through 55 years of age	~~$165.00~~ $170.00
56 through 60 years of age	~~$115.00~~ $120.00
61 through 64 years of age	~~$65.00~~ $70.00
65 years of age and older	~~$25.00~~ $30.00
Resident Special Lifetime License to Fish in Designated Stocked Trout Waters, for licensees at the time of purchase:	
through 44 years of age	~~$265.00~~ $270.00
45 through 50 years of age	~~$215.00~~ $220.00
51 through 55 years of age	~~$165.00~~ $170.00
56 through 60 years of age	~~$115.00~~ $120.00
61 through 64 years of age	~~$65.00~~ $70.00
65 years of age and older	~~$25.00~~ $30.00
Totally and Permanently Disabled Resident Special Lifetime License to Freshwater Fish	$15.00
Service-Connected Totally and Permanently Disabled Veteran Resident Lifetime License to Hunt and Freshwater Fish (also listed under Virginia Resident Licenses to Hunt)	no fee
Virginia Nonresident Licenses to Fish	
Type license	Fee
Nonresident License to Freshwater Fish	~~$46.00~~ $71.00
Nonresident License to Freshwater Fish in Designated Stocked Trout Waters	~~$22.00~~ $47.00
Nonresident License to Freshwater and Saltwater Fish	~~$70.00~~ $95.00

Nonresident Fishing License for Partially Disabled Veterans	$23.00
Nonresident Annual Fishing License for Totally and Permanently Disabled Veterans	$11.50
Nonresident License to Freshwater Fish for One Day	~~$7.00~~ $19.00
Nonresident License to Freshwater Fish for Five Consecutive Days	~~$20.00~~ $35.00
Nonresident License to Freshwater and Saltwater Fish for Five Consecutive Days	$30.00 $45.00
Nonresident Infant Lifetime License to Fish	$275.00
Nonresident Special Lifetime License to Freshwater Fish	~~$580.00~~ $630.00
Nonresident Special Lifetime License to in Fish in Designated Stocked Trout Waters	$580.00

Miscellaneous Licenses or Permits to Fish	
Type license or permit	Fee
Permit to Fish for One Day at Board-Designated Stocked Trout Fishing Areas with Daily Use Fees	~~$7.00~~ $12.00
Public Access Lands for Sportsmen Permit to Hunt, Trap, or Fish on Designated Lands (also listed under Miscellaneous Licenses or Permits to Hunt)	~~$17.00~~ $22.00
Special Guest Fishing License	$60.00

RATIONALE:

The Virginia Department of Wildlife Resources administers numerous programs that support the management of fish and wildlife populations, as well as lands and waters, throughout the state; public access to these resources; enforcement of fish and wildlife laws and regulations; hunter and angler safety training; and public awareness. These services are paid for, in part by fees paid to hunt, fish, and trap in Virginia. In 2025, the DWR issued over 198,000 hunting licenses to individuals; 305,000 individual fishing licenses (including 55,000+ trout licenses); 63,000 sportsman's licenses; more than 1,500 trapping licenses; 22,000 fee fishing area licenses; 96,000 freshwater/saltwater fishing licenses; 26,000 Virginia Migratory Waterfowl Conservation Stamps; and 5,400 waterfowl blind licenses. In that same period, the agency also issued nearly 24,000 lifetime licenses (hunting, freshwater fishing, trout, and trapping). Except for lifetime licenses, most licenses sold are valid for not more than a year.

Under its authorities outlined in the Code of Virginia (§29.1-103.16), the Board of Wildlife Resources may, by regulation, adopt revisions to fees charged for all hunting, fishing, and trapping licenses authorized under Articles 1 (§ 29.1-300 *et seq.*) and 2 (§ 29.1-340 *et seq.*) of Chapter 3 of Title 29.1. These fees may not be raised or lowered more than once every three years and by not more than $5 at any one time for resident licenses or $50 at any one time for nonresident licenses. The Board of Wildlife Resources last implemented broad scale fee changes to fishing, hunting, and trapping licenses in 2011.

Since the Board's last broad scale action on license fees, prices in the U.S. have increased by roughly 43.8%, representing an average annual inflation rate of 2.63%. The value of the dollar has also decreased, with $1 in 2012 having the purchasing power of 70 cents in 2026. Equally dramatic changes have occurred in construction costs, with cumulative increases of more than 40% just between 2020 and 2026. Over the past six years, personnel costs have risen by nearly

25%, in large part due to annual salary increases included in the state budgets. The agency has received no new state funding to support those salary increases. Accordingly, the organization's annual operating budgets have moved from 60% personnel, 40% non-personnel to nearly 80% personnel, 20% non-personnel. Over this same period, DWR revenues have remained generally static. Those trends, coupled with unpredictable changes (such as tariffs and volatile gasoline costs), have placed the agency in an unsustainable financial position. Such a situation is untenable over time due to needs to replace equipment, ensure employee safety, and implement priority programs. The DWR's operating budget for fiscal year 2012 was approximately $55.2 million, which would equate to a comparable budget of just over $79.5 million in fiscal year 2027 (beginning July 1, 2026). The agency's proposed operating budget for fiscal year 2027 is approximately $65 million.

During this same period (2012-2026), demands on the agency have increased substantially, with little additional revenue to offset the resulting costs. Public expectation of timely and in-person responsiveness to human-wildlife conflict resolution has significantly changed how conservation police officers and wildlife biologists spend their time. A growing, diverse population presents both challenges and opportunities for increasing outdoor recreation participation. Increasing demand for public access to lands and waters is well-documented not only in the DWR's management plans, but also in the updated Virginia Outdoors Plan, where access to natural areas and water continue to be two of the top 10 most desired outdoor recreation opportunities. Capital maintenance of DWR facilities (hatcheries, dams, boating access, WMA infrastructure) needed to provide safe and meaningful access has not kept pace with use, with an estimated current infrastructure liability of more than $275 million.

While the DWR has made great strides finding efficiencies in programs, including an overall reduction in employee numbers, the agency is struggling to maintain the level of service to which to public has grown accustomed. Enforcement of laws and regulations that protect the recreating public, providing access, and managing Virginia's fish and wildlife populations, as well as the habitats that support them, remain top priorities. The proposed updated fees would help offset increased costs across all program areas, allowing the agency to better address the needs of hunters, anglers, and recreationists across Virginia's lands and waters. Accounting for a relatively minor churn rate of 3%, the agency expects these increases to generate approximately $6.39 million in additional annual revenue. This additional revenue will help to support the economic impact of fishing, hunting, and boating, which are estimated to contribute $3.2 billion, $1.2 billion, and $4.4 billion, respectively, to the Virginia economy. With the exception of non-resident fishing licenses, the proposed increases keep the license fee schedule generally in line with fees charged by adjacent states.

4VAC15-20-155. Definitions and Miscellaneous: In General; Camping on Wildlife Management Areas and other department-owned or department-managed lands.

SUMMARY:

The recommendation is to establish a fee of $10 associated with authorization for camping on Wildlife Management Areas and other department-owned or department-managed lands to offset increased costs associated with maintenance of these lands, enforcement of laws and regulations on these lands, and related administrative costs.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-20-155. Camping on Wildlife Management Areas and other department-owned or department-managed lands.

A. Authorization. It shall be unlawful to camp at any time without purchasing a $10 camping authorization.

B. Camping periods. Unless otherwise posted or authorized, it shall be unlawful to camp for more than 14 consecutive nights, or more than 14 nights in a 28-day period on department-owned or controlled lands.

C. Allowed and prohibited locations. Back country camping is allowed. Adjacent to roadways, camping is allowed only in previously cleared areas. No vegetation may be cut, damaged, or removed to establish a campsite. Enclosed camping trailers or camping vehicles are allowed if they do not occupy the entire available parking area in that location. It shall be unlawful to camp within 300 feet of any department-owned lake, boat ramp, or other facility. It shall be unlawful to camp at other specific locations as posted. This section shall not prohibit active angling at night along shorelines where permitted.

D. Removal of personal property and refuse. Any person who establishes or occupies a camp shall be responsible for the complete removal of all personal property and refuse when the camping authorization has expired. Any personal property or refuse that remains after the camping authorization has expired shall be considered litter and punishable pursuant to § 33.2-802 of the Code of Virginia.

E. It shall be unlawful when camping on department-owned or department-managed lands to store or leave unattended any food (including food for pets and livestock), refuse, bear attractant, or other wildlife attractant unless it is (i) in a bear-resistant container; (ii) in a trunk of a vehicle or in a closed, locked, hard-sided motor vehicle with a solid top; (iii) in a closed, locked, hard-body trailer; or (iv) suspended at least 10 feet clear of the ground at all points and at least four feet horizontally from the supporting tree or pole and any other tree or pole. It shall be unlawful to discard, bury, or abandon any food, refuse, bear attractant, or other wildlife attractant unless it is disposed of by placing it inside an animal-resistant trash receptacle provided by the department.

F. Any violation of this section or other posted rules shall be punishable as a Class III misdemeanor, and the camping ~~permit~~ authorization shall become null and void. The permittee shall be required to immediately vacate the property upon summons or notification. A second or subsequent offense may result in the loss of camping privileges on department-owned or managed properties.

RATIONALE:

In 2020, the Board adopted regulations requiring anyone camping on Wildlife Management Areas (WMAs), or on other Department-owned or Department-managed sites, to secure a no-cost camping authorization. This authorization provided a means for the DWR to know who was using DWR areas, document known start and end dates by camper, and have a way to contact campers in the event of an emergency. Up to six individuals are allowed under one camping authorization. Additionally, the authorization ensured that campers adhered to certain rules and requirements to reduce impacts to properties and reduce associated staff maintenance costs. During 2025, the Department issued approximately 2,400 camping authorizations.

Prior to the implementation of the camping authorization, the agency had many instances of individuals setting up long-term camp sites or abandoning campers, tents and other equipment when not in use. The Department does not have the funding or staffing to manage long-term camping. Further, long-term camping can degrade wildlife habitat, which is a primary function of WMAs. In most cases, suitable camping locations are limited. Camping for longer than 14 nights could prevent others from enjoying DWR properties.

Even with the implementation of camping authorizations, the DWR continues to incur increased expenses associated with maintaining these areas on the WMAs and enforcing rules, regulations and laws on the areas. Increased demands by Virginians for natural places in which to recreate continues to put pressures on DWR lands. The 2024 Virginia Outdoors Plan corroborates this outcome, noting that 82% of respondents to the Virginia Outdoors Survey indicated that access to the outdoors was very important to them and that "natural areas" (i.e. undeveloped) were the most needed outdoor recreation asset (47% of respondents). The 2026 cost for primitive camping at Virginia State Parks ranges from $16-$21, plus a $5 non-refundable transaction fee and applicable Virginia sales tax. These rates are based on four guests at a camp site.

The proposed DWR $10 camping authorization fee will help offset on-going maintenance and development costs associated with both infrastructure and habitat on Department-owned and Department-managed lands, as well as law enforcement patrols needed to ensure user compliance with WMA rules, regulations, and laws and safety of the public on these properties. Acknowledging that there may be a nominal churn rate of 3%, the DWR anticipates that the new camping authorization fee will generate $23,450 additional revenue annually.

4VAC15-380-120. Watercraft: Motorboat Numbering; Certificate of Registration and Titling Fees.

SUMMARY:

The recommendation is to increase fees associated with registering and titling certain watercraft by $5 (the amount allowed by law) to offset increased costs associated with boating-related activities, including law enforcement, education, maintenance of boating access sites, and administrative functions.

RECOMMENDED LANGUAGE OF AMENDMENT:

4VAC15-380-120. Certificate of registration and titling fees.

A. The following fees shall be paid by applicants for certificates of registration:

Temporary registration certificate	$15
For a motorboat under 16 feet	~~$32~~ $37
For a motorboat 16 feet to less than 20 feet	~~$36~~ $41
For a motorboat 20 feet to less than 40 feet	~~$42~~ $47
For a motorboat 40 feet and over	~~$50~~ $55
For first 10 actively registered motorboats by the same owner	~~$32~~ $37
For more than 10 actively registered motorboats by the same owner	~~$26~~ $31
For a duplicate certificate of registration or decal	~~$14~~ $19

B. The following fees shall be paid by applicants for certificates of title:

Titling fee	~~$10~~ $15
Duplicate title	~~$7~~ $12
Change of motor on title	~~$7~~ $12
Record supplemental lien on previously titled watercraft	~~$10~~ $15

RATIONALE:

The Virginia Department of Wildlife Resources administers numerous programs that support boaters on the waters of Virginia, including boat registration, titling, and customer service; boating safety law enforcement (including boat incident investigation); boating education and safety training and public awareness; waterways management (including administration of regulatory markers); and public boating access maintenance and renovation. These services are paid for, in part by fees paid to register and title watercraft. In 2025, the DWR issued more than 72,000 registrations; more than 27,500 titles; more than 7,000 duplicates, changes of motor, and recordation of supplemental lien; and over 400 livery registrations. Registrations are issued for a three-year period; titles are typically a one-time transaction.

Under its authorities outlined in the Code of Virginia (§29.1-701.1), the Board of Wildlife Resources may, by regulation, adopt revisions to fees charged for motorboat registration certificates and certificates of title. These fees may not be raised or lowered more than once every three years and by not more than $5 at any one time. The Board of Wildlife Resources last considered fee changes in 2019. The temporary registration certificate, authorized in the Code

(§29.1-703.1) with a $10 fee, has never been adjusted. In 2025, the DWR issued more than 8,000 temporary registration certificates.

Since the Board's last action on registration and titling fees, there has been a 25% increase in salaries of state employees; significant increases in printing and postage needed for registration, titling, and education activities; and increased costs for equipment, such as boats and motors (and related gas/oil), needed for on-the-water patrols and inspections of waterway markers. Construction and related materials costs have increased more than 40% since 2020, meaning that the DWR is only able to address renovation of one or two of its 230 facilities annually with current revenues. Demand for additional access to public waters is well-documented not only in the DWR's Boating Access Site and Facilities Management Plan, but also in the updated Virginia Outdoors Plan, where access to water continues to be one of the top 10 most desired outdoor recreation opportunities, identified as the fourth most needed outdoor recreation asset.

While the DWR has made great strides in moving registration, titling, and educational programming online, which have reduced certain costs, those systems must be maintained and upgraded to provide quality service to constituents. Enforcement of laws and regulations that protect public recreating on Virgina waters, and providing access, remain top priorities with an increased number of boats in the state. The proposed updated fees would help offset increased costs across all program areas, allowing the agency to still meet the needs of anglers, boaters and recreationists on Virginia's waters. Accounting for a relatively minor churn rate of 3%, the agency expects this increase to generate about $556,000 in additional annual revenue.