Supplementary Methods

Transmission modes were categorized as: “Unknown” if insufficient evidence to implicate one specific primary mode of transmission; “Environmental contamination” if transmitted through exposure to a contaminated environment not attributable to foodborne, waterborne, person-to-person, or animal contact transmission; “Foodborne” if transmitted by consumption of contaminated food or non-water beverages; “Animal contact” if transmitted through contact with animals or their living environments; “Person-to-person” if transmission occurred from direct contact with an infected person, their bodily fluids, or by contact with the local environment where the exposed person was simultaneously present; and “Waterborne” if transmission occurred via ingestion, inhalation, contact, or another exposure to water (e.g., treated or untreated recreational water, drinking water [including bottled water], or an environmental or indeterminate water source) Reporting Guidance | NORS | CDC. For this analysis, outbreaks of unknown transmission mode were combined with those associated with environmental contamination. Outbreaks were classified by reported major setting when multiple settings were implicated.

The four geographic regions were: Northeast (Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, and Vermont); Midwest: (Illinois, Indiana, Iowa, Kansas, Michigan, Minnesota, Missouri, Nebraska, North Dakota, Ohio, South Dakota, and Wisconsin); South: (Alabama, Arkansas, Delaware, District of Columbia, Florida, Georgia, Kentucky, Louisiana, Maryland, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, Virginia, and West Virginia); and West: (Alaska, Arizona, California, Colorado, Hawaii, Idaho, Montana, Nevada, New Mexico, Oregon, Utah, Washington, and Wyoming) Geographic division or region - Health, United States.

Supplementary Table 1. Annual reported cryptosporidiosis outbreaks and outbreak-associated cases, hospitalizations, and deaths, overall and by transmission mode — United States, 2018–2024.

Transmission Mode	Year	Outbreaks	Cases	Hospitalizations	Deaths
All modes	2018	70	1430	33	0
	2019	49	644	15	1
	2020	19	98	2	0
	2021	22	222	11	0
	2022	19	162	3	0
	2023	50	429	14	0
	2024	66	943	18	0
Animal contact	2018	24	188	17	0
	2019	12	69	4	0
	2020	13	64	2	0
	2021	10	82	4	0
	2022	5	22	0	0
	2023	16	129	7	0
	2024	9	61	5	0
Waterborne	2018	22	1,144	13	0
	2019	12	370	4	0
	2020	2	14	0	0
	2021	3	64	0	0
	2022	3	29	1	0
	2023	9	111	0	0
	2024	23	494	9	0
Other or Undetermined	2018	11	44	2	0
	2019	14	103	7	0
	2020	1	2	0	0
	2021	1	35	1	0
	2022	3	14	1	0
	2023	12	77	4	0
	2024	10	34	1	0
Person-to-person	2018	9	37	0	0
	2019	10	95	0	1
	2020	2	14	0	0
	2021	6	37	4	0
	2022	7	92	0	0
	2023	9	61	1	0
	2024	22	331	2	0
Foodborne	2018	4	17	1	0
	2019	1	7	0	0

	2020	1	4	0	0
	2021	2	4	2	0
	2022	1	5	1	0
	2023	4	51	2	0
	2024	2	23	1	0
“Other” includes unknown and environmental contamination					

Supplementary Table 2. Annual reported cryptosporidiosis outbreaks and outbreak-associated cases, hospitalizations, and deaths, by transmission mode and subcategory — United States, 2018–2024.

Transmission mode: Subcategory	Year	Outbreaks	Cases	Hospitalizations	Deaths
Animal contact: Cattle	2018	14	72	10	0
	2019	7	42	2	0
	2020	7	46	1	0
	2021	6	51	2	0
	2022	4	20	0	0
	2023	10	58	4	0
	2024	3	23	1	0
Animal contact: Multiple species	2018	1	4	0	0
	2019	2	5	1	0
	2020	1	3	0	0
	2021	1	9	0	0
	2022	0	0	0	0
	2023	1	36	1	0
	2024	0	0	0	0
Animal contact: Other	2018	1	4	0	0
	2019	1	15	0	0
	2020	0	0	0	0
	2021	0	0	0	0
	2022	1	2	0	0
	2023	0	0	0	0
	2024	1	21	1	0
Animal contact: Goats and kids	2018	4	94	3	0
	2019	1	2	0	0
	2020	1	3	0	0
	2021	0	0	0	0
	2022	0	0	0	0

	2023	0	0	0	0
	2024	1	4	0	0
Animal contact: No animal reported	2018	4	14	4	0
	2019	1	5	1	0
	2020	4	12	1	0
	2021	3	22	2	0
	2022	1	2	0	0
	2023	4	33	2	0
	2024	4	13	3	0
Waterborne: Drinking water	2018	1	693	3	0
	2019	2	44	0	0
	2020	0	0	0	0
	2021	0	0	0	0
	2022	0	0	0	0
	2023	0	0	0	0
	2024	1	2	0	0
Waterborne: Other or undetermined	2018	1	101	0	0
	2019	2	23	0	0
	2020	0	0	0	0
	2021	1	2	0	0
	2022	0	0	0	0
	2023	1	19	0	0
	2024	1	139	5	0
Waterborne: Treated recreational water	2018	15	249	6	0
	2019	7	300	4	0
	2020	2	14	0	0
	2021	2	62	0	0
	2022	1	3	0	0
	2023	5	84	0	0

	2024	20	347	4	0
Waterborne: Untreated recreational water	2018	5	101	4	0
	2019	1	3	0	0
	2020	0	0	0	0
	2021	0	0	0	0
	2022	2	26	1	0
	2023	3	8	0	0
	2024	1	6	0	0
Person-to-person: Childcare	2018	6	26	0	0
	2019	7	35	0	0
	2020	0	0	0	0
	2021	4	22	0	0
	2022	4	65	0	0
	2023	5	35	1	0
	2024	16	90	2	0
Person-to-person: Other or undetermined	2018	2	7	0	0
	2019	3	60	0	1
	2020	2	14	0	0
	2021	2	15	4	0
	2022	0	0	0	0
	2023	2	18	0	0
	2024	1	2	0	0
Person-to-person: Private home/Residence	2018	0	0	0	0
	2019	0	0	0	0
	2020	0	0	0	0
	2021	0	0	0	0
	2022	1	6	0	0
	2023	1	3	0	0
	2024	2	10	0	0

Person-to-person: School/College/University	2018	1	4	0	0
	2019	0	0	0	0
	2020	0	0	0	0
	2021	0	0	0	0
	2022	2	21	0	0
	2023	1	5	0	0
	2024	3	229	0	0
Foodborne: Unpasteurized milk	2018	2	6	0	0
	2019	0	0	0	0
	2020	1	4	0	0
	2021	1	2	2	0
	2022	0	0	0	0
	2023	3	20	2	0
	2024	0	0	0	0
Foodborne: Other or Undetermined	2018	2	11	1	0
	2019	1	7	0	0
	2020	0	0	0	0
	2021	1	2	0	0
	2022	1	5	1	0
	2023	1	31	0	0
	2024	2	23	1	0
Other or Undetermined	2018	11	44	2	0
	2019	14	103	7	0
	2020	1	2	0	0
	2021	1	35	1	0
	2022	3	14	1	0
	2023	12	77	4	0
	2024	10	34	1	0

Supplementary Table 3. Negative binomial regression results for annual reported cryptosporidiosis outbreaks, overall, by transmission mode, and by selected exposure subcategory* — United States, 2018–2024. The rate ratios were calculated using 2009-2017 period as the reference.

Transmission Mode or Subcategory	Rate ratio	95% CI	p-value	Total outbreaks	Years with outbreaks
Overall	0.994	0.844-1.170	0.949	295	7
Animal contact	0.887	0.779-1.006	0.072	89	7
Cattle	0.861	0.745-0.990	0.037	51	7
Multiple species	0.933	0.55-1.478	0.776	6	5
Other	Not estimated	Not estimated	Not estimated	4	4
Goats or kids	0.781	0.437-1.135	0.283	7	4
No animal reported	1.036	0.836-1.288	0.744	21	7
Waterborne	0.996	0.776-1.279	0.978	74	7
Drinking water	0.951	0.507-1.608	0.8	4	3
Other or undetermined	0.938	0.641-1.341	0.721	6	5
Treated recreational water	1.030	0.784-1.355	0.866	52	7
Untreated recreational water	0.879	0.68-1.122	0.301	12	5
Person-to-person	1.146	0.965-1.366	0.161	65	7
Childcare	1.120	0.939-1.344	0.242	42	6
Other or undetermined	0.908	0.676-1.189	0.497	12	6
Private home / Residence	1.468	0.28-9.359	0.545	4	3
School / College / University	1.168	0.831-1.903	0.439	7	4
Other or Undetermined	0.982	0.747-1.291	0.911	52	7
Foodborne	1.000	0.774-1.292	1.000	15	7

*Subcategory models were prespecified for animal contact, waterborne, and person-to-person exposure categories because these were the primary exposure groups evaluated in the report. Subcategories were not estimated for "Other" because it is a residual transmission-mode category without standardized or analytically interpretable exposure subcategories. Subcategories were not estimated for foodborne transmission because foodborne outbreaks were few (n=15) and vehicle categories were sparse; foodborne transmission was modeled at the transmission-mode level only. "Not estimated" indicates that a negative binomial model could not be fit because no outbreaks were classified in that subcategory during 2018–2024 using the analytic classification (e.g., Long-term care / Assisted living facility).

†"Other" includes unknown and environmental contamination