Data Files for the 2022 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation

Conducted by NORC at the University of Chicago, the 2022 National Survey features data on fishing, hunting, and wildlife-watching participation and expenditures. The survey also provides data on target shooters, archers, and boaters. The survey data is provided as four datasets:

Screener – this dataset can be used to generate estimates for fishing and hunting participation for residents of the United States ages 6 and older. This includes likelihood to participate in 2022, as well as recall of participation in 2017-2021. It can also be used to generate estimates of wildlife watching participation for residents of the United States ages 16 and older. Additional estimates include participation in target shooting, archery, and recreational boating in 2021. The dataset includes demographic information on all respondents, including gender, race and ethnicity, income, education, and more. Key variables include:

- FISH21 – Participated in recreational fishing in the United States in 2021
- HUNT21 – Did any hunting in the United States in 2021
- TARGET – Did any target shooting or sport shooting with a firearm in 2021
- ARCHERY – Participated in archery activities using a bow and arrow in 2021
- MOTORBOAT – Did any recreational boating in a motorized boat in 2021

Angler – this dataset can be used to generate estimates for fishing participation and expenditures in detail for 2022. Participation and trip-related expenditure estimates can be generated overall and by census division. The dataset includes demographic information on all respondents, including gender, race and ethnicity, income, education, and more. Key variables include:

- USFISH – Participated in recreational fishing in the United States in 2022
- FRESHWTR – Did any recreational freshwater fishing in 2022
- SALTWTR – Did any recreational saltwater fishing in 2022
- FWDAYS/SWDAYS – How many days participating in freshwater/saltwater fishing in 2022
- FWTRIPS/SWTRIPS – How many freshwater/saltwater fishing trips taken in 2022
- FISHTRIP_EXP – Total trip-related fishing expenditures
- FISHEQ_EXP – Total fishing equipment expenditures
- FISHAUX_EXP – Total auxiliary fishing equipment expenditures
- FISHSPEC_EXP – Total special fishing equipment expenditures
- FISHOTHER_EXP – Total other fishing expenditures
- Aggregate fishing expenditures can be generated by summing FISHTRIP_EXP, FISHEX_EXP, FISHAUX_EXP, FISHSPEC_EXP, and FISHOTHER_EXP

Hunter – this dataset can be used to generate estimates for hunting participation and expenditures in detail for 2022. Participation and trip-related expenditure estimates can be generated overall and by

census division. The dataset includes demographic information on all respondents, including gender, race and ethnicity, income, education, and more. Key variables include:

- USHUNT – Did any hunting in the United States in 2022
- BGHUNT – Hunted big game in the United States in 2022
- SMHUNT – Hunted small game in the United States in 2022
- MBHUNT – Hunted migratory birds in the United States in 2022
- OAHUNT – Hunted other animals in the United States in 2022
- BGDAYS/SMDAYS/MBDAYS/OADAYS – How many days hunting big game/small game/migratory birds/other animals in 2022
- BGTRIPS/SMTRIPS/MBTRIPS/OATRIPS – How many trips taken to hunt big game/small game/migratory birds/other animals in 2022
- HUNTTRIP_EXP – Total trip-related hunting expenditures
- HUNTEQ_EXP – Total hunting equipment expenditures
- HUNTAUX_EXP – Total auxiliary hunting equipment expenditures
- HUNTSPEC_EXP – Total special hunting equipment expenditures
- HUNTOTHER_EXP – Total other hunting expenditures
- Aggregate hunting expenditures can be generated by summing HUNTTRIP_EXP, HUNTEX_EXP, HUNTAUX_EXP, HUNTSPEC_EXP, and HUNTOTHER_EXP

Wildlife Watching – this dataset can be used to generate estimates for wildlife watching participation and expenditures in detail for 2022. Participation and trip-related expenditure estimates can be generated overall and by census division. The dataset includes demographic information on all respondents, including gender, race and ethnicity, income, education, and more. Key variables include:

- USRESIDE – Did any wildlife watching within a one-mile radius of home in 2022
- FH_OBSRV – Took any trips more than one mile away from home for the purpose of wildlife watching in 2022
- OBSERVE_DAY – How many days wildlife watching more than one mile away from home in 2022
- OBSERVE_BIRDHOME – While wildlife watching within a one-mile radius of home in 2022, did any close observing of birds
- OBSERVE_BIRDAFH – While wildlife watching more than one mile away from home in 2022, did any close observing of birds
- NCUTRIP_EXP – Total trip-related nonconsumptive activity expenditures
- NCUEQ_EXP – Total nonconsumptive activity equipment expenditures
- NCUAUX_EXP – Total nonconsumptive activity auxiliary equipment expenditures
- NCUSPEC_EXP – Total nonconsumptive activity special equipment expenditures
- NCUOTHER_EXP – Total nonconsumptive activity other expenditures
- Aggregate nonconsumptive activity expenditures can be generated by summing NCUTRIP_EXP, NCUEX_EXP, NCUAUX_EXP, NCUSPEC_EXP, and NCUOTHER_EXP

Weights: Please read before conducting analysis

In order to generate estimates using these datasets, it is critical to weight the data using the proper weight variable:

- In the Screener dataset, all weighted estimates should be generated using the PERWGT variable.
- The Angler, Hunter, and Wildlife Watching datasets each have two weights:
    - The **Participation weight** is used to generate estimates representative of U.S. residents age 16 and older. In the Angler and Hunter datasets, this is the SPWGT variable. In the Wildlife Watching dataset, this is the NCWGT variable. An example of how to describe an estimate using this weight would be, "Among those age 16 and older in the United States, more than 39 million participated in fishing in 2022."
    - The **Activity weight** is used to generate estimates representative of those age 16 and older who participated in the activity of interest. In the Angler dataset, this is the FISH_WEIGHT variable. In the Hunter dataset, this is the HUNT_WEIGHT variable. In the Wildlife Watching datasets, this is the WW_WEIGHT variable. An example of how to describe an estimate using this weight would be, "Those age 16 and older who participated in fishing in 2022 totaled more than $99 billion in fishing-related expenditures."

For more specific information about generating weighted estimates, the appendix below lists the weight that should be used for each variable in each of the four datasets.

Note: The estimates should not be directly compared with results from past surveys because of changes in methodology to improve accuracy.

Appendix

Screener Dataset Variables

All variables should use the PERWGT weight

Angler Dataset Variables

Variables that use the SPWGT participation weight
CENDIV
GEMSAST
GEMSASZ
GEUR
AGE
SEX
MARITAL
SCHOOL
HISPANIC
RACE
SCRACE
RACE1
RACE2
RACE3
RACE4
RACE5
RACE6
HINCOME
JOB
USFISH
USHUNT
USSPORT
USREC
FRESHWTR
SALTWTR
FHINTRST
WILDLIFE
PHOTO
FEED
PARKS
NATRAREA
MAINPLNT
FH_OBSRV

Variables that use FISH_WEIGHT activity weight
FWDAYS
SWDAYS
FWTRIPS
SWTRIPS
FISHSTD1
FISHSTD2
FISHSTD3
FISHSTD4
FISHSTD5
FISHSTD6
FISHSTD7
FISHSTD8
FISHSTD9
USDAYS_F
STDAYSFD1
STDAYSFD2
STDAYSFD3
STDAYSFD4

STDAYSFD5
STDAYSFD6
STDAYSFD7
STDAYSFD8
STDAYSFD9
FRSTED1
FRSTED2
FRSTED3
FRSTED4
FRSTED5
FRSTED6
FRSTED7
FRSTED8
FRSTED9
FRTRIPD1
FRTRIPD2
FRTRIPD3
FRTRIPD4
FRTRIPD5
FRTRIPD6
FRTRIPD7
FRTRIPD8
FRTRIPD9
FRDAYSD1
FRDAYSD2
FRDAYSD3
FRDAYSD4
FRDAYSD5
FRDAYSD6
FRDAYSD7
FRDAYSD8
FRDAYSD9
SLTSTED1
SLTSTED2
SLTSTED3
SLTSTED4
SLTSTED5
SLTSTED6
SLTSTED7
SLTSTED8
SLTSTED9
SALTTRIPD1
SALTTRIPD2
SALTTRIPD3
SALTTRIPD4
SALTTRIPD5
SALTTRIPD6
SALTTRIPD7
SALTTRIPD8
SALTTRIPD9
SALTDAYSD1
SALTDAYSD2
SALTDAYSD3
SALTDAYSD4
SALTDAYSD5
SALTDAYSD6
SALTDAYSD7

SALTDAYSD8
SALTDAYSD9
SLTTYPED1
SLTTYPED2
SLTTYPED3
SLTTYPED4
SLTTYPED5
SLTTYPED6
SLTTYPED7
SLTTYPED8
SLTTYPED9
OFSHAR1D1
OFSHAR1D2
OFSHAR1D3
OFSHAR1D4
OFSHAR1D5
OFSHAR1D6
OFSHAR1D7
OFSHAR1D8
OFSHAR1D9
OFSHAR2D1
OFSHAR2D2
OFSHAR2D3
OFSHAR2D4
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OFSHAR4D3
OFSHAR4D4
OFSHAR4D5
OFSHAR4D6
OFSHAR4D7
OFSHAR4D8
OFSHAR4D9
OFSHAR5D1
OFSHAR5D2
OFSHAR5D3
OFSHAR5D4
OFSHAR5D5
OFSHAR5D6
OFSHAR5D7
OFSHAR5D8
OFSHAR5D9
OFSHAR6D1

OFSHAR6D2	OFSHAR13D6	FLEASE
OFSHAR6D3	OFSHAR13D7	FLSE_ACRE
OFSHAR6D4	OFSHAR13D8	FLSE_CLUB
OFSHAR6D5	OFSHAR13D9	FLSE_WHO
OFSHAR6D6	OFTOTAMTD1	FLSE_CNUM
OFSHAR6D7	OFTOTAMTD2	FLSE_SHR
OFSHAR6D8	OFTOTAMTD3	FBUYLICS
OFSHAR6D9	OFTOTAMTD4	FBUYMULT
OFSHAR7D1	OFTOTAMTD5	FBUYANYL
OFSHAR7D2	OFTOTAMTD6	FBUYANYO
OFSHAR7D3	OFTOTAMTD7	FCSTLICS
OFSHAR7D4	OFTOTAMTD8	FCSTMULT
OFSHAR7D5	OFTOTAMTD9	FCSTANYL
OFSHAR7D6	FEQP1	FCSTANYO
OFSHAR7D7	FEQP2	OFFOOD
OFSHAR7D8	FEQP3	OFLODGE
OFSHAR7D9	FEQP4	OFAIR
OFSHAR8D1	FEQP5	OFPUBLIC
OFSHAR8D2	FEQP6	OFPRIVATE
OFSHAR8D3	FEQP7	OFGUIDE
OFSHAR8D4	FEQP8	OFPUBLAND
OFSHAR8D5	FEQP9	OFPRIVLAND
OFSHAR8D6	FEQP10	OFBAIT
OFSHAR8D7	RODSCOST	OFICE
OFSHAR8D8	LINECOST	OFCOOKFUEL
OFSHAR8D9	LURECOST	OFEQUIP
OFSHAR9D1	HOOKCOST	OFOTHERBOAT
OFSHAR9D2	TACKCOST	FISHTRIP_EXP
OFSHAR9D3	CREELCST	FISHEQ_EXP
OFSHAR9D4	BAITCOST	FISHAUX_EXP
OFSHAR9D5	FINDCOST	FISHSPEC_EXP
OFSHAR9D6	ICECOST	FISHOTHER_EXP
OFSHAR9D7	OTHERCST	
OFSHAR9D8	FHEQP1	
OFSHAR9D9	FHEQP2	
OFSHAR10D1	FHEQP3	
OFSHAR10D2	FHEQP4	
OFSHAR10D3	FHEQP5	
OFSHAR10D4	FHEQP6	
OFSHAR10D5	FHEQP7	
OFSHAR10D6	FHEQP8	
OFSHAR10D7	CAMPCOST	
OFSHAR10D8	BINOCOST	
OFSHAR10D9	GEARCOST	
OFSHAR11D1	TAXICOST	
OFSHAR11D2	BOOKCOST	
OFSHAR11D3	DUECOST	
OFSHAR11D4	APPSCOST	
OFSHAR11D5	FHCOST	
OFSHAR11D6	EQPANN1	
OFSHAR11D7	EQPANN2	
OFSHAR11D8	EQPANN3	
OFSHAR11D9	EQPANN4	
OFSHAR12D1	EQPANN5	
OFSHAR12D2	EQPANN6	
OFSHAR12D3	BOATCOST	
OFSHAR12D4	CANOECST	
OFSHAR12D5	MOTORCST	
OFSHAR12D6	VANCOST	
OFSHAR12D7	OFF_COST	
OFSHAR12D8	EQPCST	
OFSHAR12D9	FOWN	
OFSHAR13D1	FOWN_ACRE	
OFSHAR13D2	FOWN_CLUB	
OFSHAR13D3	FOWN_WHO	
OFSHAR13D4	FOWN_CNUM	
OFSHAR13D5	FOWN_SHR	

Hunter Dataset Variables

Variables that use the SPWGT participation weight
CENDIV
GEMSAST
GEMSASZ
GEUR
AGE
SEX
MARITAL
SCHOOL
HISPANIC
RACE
SCRACE
RACE1
RACE2
RACE3
RACE4
RACE5
RACE6
HINCOME
JOB
USFISH
USHUNT
USSPORT
USREC
FHINTRST
WILDLIFE
PHOTO
FEED
PARKS
NATRAREA
MAINPLNT
FH_OBSRV

Variables that use HUNT_WEIGHT activity weight
BGHUNT
SMHUNT
MBHUNT
OAHUNT
BGDAYS
SMDAYS
MBDAYS
OADAYS
BGTRIPS
SMTRIPS
MBTRIPS
OATRIPS
HUNTSTD1
HUNTSTD2
HUNTSTD3
HUNTSTD4
HUNTSTD5
HUNTSTD6
HUNTSTD7
HUNTSTD8
HUNTSTD9
USDAYS_H
STDAYSHD1
STDAYSHD2
STDAYSHD3
STDAYSHD4
STDAYSHD5

STDAYSHD6
STDAYSHD7
STDAYSHD8
STDAYSHD9
BGHNTD1
BGHNTD2
BGHNTD3
BGHNTD4
BGHNTD5
BGHNTD6
BGHNTD7
BGHNTD8
BGHNTD9
BGTRIPD1
BGTRIPD2
BGTRIPD3
BGTRIPD4
BGTRIPD5
BGTRIPD6
BGTRIPD7
BGTRIPD8
BGTRIPD9
BGDAYD1
BGDAYD2
BGDAYD3
BGDAYD4
BGDAYD5
BGDAYD6
BGDAYD7
BGDAYD8
BGDAYD9
SMHNTD1
SMHNTD2
SMHNTD3
SMHNTD4
SMHNTD5
SMHNTD6
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SMHNTD9
SMTRIPD1
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SMTRIPD6
SMTRIPD7
SMTRIPD8
SMTRIPD9
SMDAYD1
SMDAYD2
SMDAYD3
SMDAYD4
SMDAYD5
SMDAYD6
SMDAYD7
SMDAYD8
SMDAYD9
MBHNTD1
MBHNTD2
MBHNTD3
MBHNTD4
MBHNTD5
MBHNTD6

MBHNTD7
MBHNTD8
MBHNTD9
MBTRIPD1
MBTRIPD2
MBTRIPD3
MBTRIPD4
MBTRIPD5
MBTRIPD6
MBTRIPD7
MBTRIPD8
MBTRIPD9
MBDAYD1
MBDAYD2
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MBDAYD5
MBDAYD6
MBDAYD7
MBDAYD8
MBDAYD9
OAHNTD1
OAHNTD2
OAHNTD3
OAHNTD4
OAHNTD5
OAHNTD6
OAHNTD7
OAHNTD8
OAHNTD9
OATRIPD1
OATRIPD2
OATRIPD3
OATRIPD4
OATRIPD5
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HTSHAR1D2
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HTSHAR1D7
HTSHAR1D8
HTSHAR1D9
HTSHAR2D1
HTSHAR2D2
HTSHAR2D3
HTSHAR2D4
HTSHAR2D5
HTSHAR2D6
HTSHAR2D7

HTSHAR2D8	HTSHAR9D8	TAXICOST
HTSHAR2D9	HTSHAR9D9	BOOKCOST
HTSHAR3D1	HTSHAR10D1	DUECOST
HTSHAR3D2	HTSHAR10D2	APPSCOST
HTSHAR3D3	HTSHAR10D3	FHCOST
HTSHAR3D4	HTSHAR10D4	MEATCOST
HTSHAR3D5	HTSHAR10D5	EQPANN1
HTSHAR3D6	HTSHAR10D6	EQPANN2
HTSHAR3D7	HTSHAR10D7	EQPANN3
HTSHAR3D8	HTSHAR10D8	EQPANN4
HTSHAR3D9	HTSHAR10D9	EQPANN5
HTSHAR4D1	HTSHAR11D1	EQPANN6
HTSHAR4D2	HTSHAR11D2	BOATCOST
HTSHAR4D3	HTSHAR11D3	CANOECST
HTSHAR4D4	HTSHAR11D4	MOTORCST
HTSHAR4D5	HTSHAR11D5	VANCOST
HTSHAR4D6	HTSHAR11D6	OFF_COST
HTSHAR4D7	HTSHAR11D7	EQPCST
HTSHAR4D8	HTSHAR11D8	HOWN
HTSHAR4D9	HTSHAR11D9	HOWN_ACRE
HTSHAR5D1	HTTOTAMTD1	HOWN_CLUB
HTSHAR5D2	HTTOTAMTD2	HOWN_WHO
HTSHAR5D3	HTTOTAMTD3	HOWN_CNUM
HTSHAR5D4	HTTOTAMTD4	HOWN_SHR
HTSHAR5D5	HTTOTAMTD5	HLEASE
HTSHAR5D6	HTTOTAMTD6	HLSE_ACRE
HTSHAR5D7	HTTOTAMTD7	HLSE_CLUB
HTSHAR5D8	HTTOTAMTD8	HLSE_WHO
HTSHAR5D9	HTTOTAMTD9	HLSE_CNUM
HTSHAR6D1	HEQP1	HLSE_SHR
HTSHAR6D2	HEQP2	HBUYLICS
HTSHAR6D3	HEQP3	HBUYMULT
HTSHAR6D4	HEQP4	HBUYANYL
HTSHAR6D5	HEQP5	DUCK_H
HTSHAR6D6	HEQP6	HBUYANYO
HTSHAR6D7	HEQP7	HCSTLICS
HTSHAR6D8	HEQP8	HCSTMULT
HTSHAR6D9	HEQP9	HCSTANYL
HTSHAR7D1	HEQP10	HCSTSTMP
HTSHAR7D2	HEQP11	HCSTANYO
HTSHAR7D3	RIFLECST	HTFOOD
HTSHAR7D4	GUNSCOST	HTLODGE
HTSHAR7D5	MUZZCST	HTAIR
HTSHAR7D6	PISTLCST	HTPUBLIC
HTSHAR7D7	BOWSCOST	HTPRIVATE
HTSHAR7D8	SCOPECST	HTGUIDE
HTSHAR7D9	DECOYCST	HTPUBLAND
HTSHAR8D1	AMMCOST	HTPRIVLAND
HTSHAR8D2	HANDCST	HTCOOKFUEL
HTSHAR8D3	DOGSCOST	HTEQUIP
HTSHAR8D4	OTHCOST	HTOTHERBOAT
HTSHAR8D5	FHEQP1	HUNTTRIP_EXP
HTSHAR8D6	FHEQP2	HUNTEQ_EXP
HTSHAR8D7	FHEQP3	HUNTAUX_EXP
HTSHAR8D8	FHEQP4	HUNTSPEC_EXP
HTSHAR8D9	FHEQP5	HUNTOTHER_EXP
HTSHAR9D1	FHEQP6	
HTSHAR9D2	FHEQP7	
HTSHAR9D3	FHEQP8	
HTSHAR9D4	FHEQP9	
HTSHAR9D5	CAMPCOST	
HTSHAR9D6	BINOCOST	
HTSHAR9D7	GEARCOST	

Wildlife Watching Dataset Variables

Variables that use the NCWGT participation weight
CENDIV
GEMSAST
GEMSASZ
GEUR
AGE
SEX
MARITAL
SCHOOL
HISPANIC
RACE
SCRACE
RACE1
RACE2
RACE3
RACE4
RACE5
RACE6
HINCOME
JOB
USRESIDE
FH_OBSRV
USSPORT
USREC
WILDLIFE
PHOTO
FEED
PARKS
NATRAREA
MAINPLNT
NCU_HNT
NCU_FISH

Variables that use WWWEIGHT activity weight
NCU_STD1
NCU_STD2
NCU_STD3
NCU_STD4
NCU_STD5
NCU_STD6
NCU_STD7
NCU_STD8
NCU_STD9
NCUTOTD1
NCUTOTD2
NCUTOTD3
NCUTOTD4
NCUTOTD5
NCUTOTD6
NCUTOTD7
NCUTOTD8
NCUTOTD9
NCUDAYSD1
NCUDAYSD2
NCUDAYSD3
NCUDAYSD4
NCUDAYSD5
NCUDAYSD6
NCUDAYSD7
NCUDAYSD8
NCUDAYSD9

NCUSHR1D1
NCUSHR1D2
NCUSHR1D3
NCUSHR1D4
NCUSHR1D5
NCUSHR1D6
NCUSHR1D7
NCUSHR1D8
NCUSHR1D9
NCUSHR2D1
NCUSHR2D2
NCUSHR2D3
NCUSHR2D4
NCUSHR2D5
NCUSHR2D6
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NCUSHR11D5
NCUSHR11D6
NCUSHR11D7
NCUSHR11D8
NCUSHR11D9
NCUTOTAMTD1
NCUTOTAMTD2
NCUTOTAMTD3
NCUTOTAMTD4
NCUTOTAMTD5
NCUTOTAMTD6
NCUTOTAMTD7
NCUTOTAMTD8
NCUTOTAMTD9
WILDDAYS
PHOTDAY
DYSPARK
NCUEQP1
NCUEQP2
NCUEQP3
NCUEQP4
NCUEQP5
NCUEQP6
NCUEQP7
BINOCOST
PHOTOCST
FOODCOST
BULKCOST
OTHRCOST
NESTCOST
SPECCOST
MOREQP1
MOREQP2
MOREQP3

MOREQP4
MOREQP5
MOREQP6
MOREQP7
MOREQP8
PACKCOST
CAMP2CST
DYPK_CST
MAG_COST
DUE2COST
APPSCOST
OTH_GCST
JOURCOST
ANNEQP1
ANNEQP2
ANNEQP3
ANNEQP4
ANNEQP5
ANNEQP6
OTR_COST
TRAILCST
BOAT_CST
CANOECST
ACCESCST
EQUIPCST
AOWN
AOWN_ACRE
AOWN_CLUB
AOWN_WHO
AOWN_CNUM
AOWN_SHR
ALEASE
ALSE_ACRE
ALSE_CLUB
ALSE_WHO
ALSE_CNUM
ALSE_SHR
ANNNUM1
ANPLCST
OBSERVE_DAY
OBSERVE_BIRDAFH
BIRD_DAYAFH
OBSERVE_BIRDHOME
BIRD_DAYHOME
TOTFOOD
TOTLODGE
TOTAIR
TOTPUBLIC
TOTPRIVATE
TOTGUIDE
TOTPUBLAND
TOTPRIVLAND
TOTEQUIP
TOTOTHERBOAT
TOTCOOKFUEL
NCUTRIP_EXP
NCUEQ_EXP
NCUAUX_EXP
NCUSPEC_EXP
NCUOTHER_EXP