

1. What type and size of vessel do you operate in these waters? (select one)

- | | |
|--|---|
| <input type="radio"/> Military | <input type="radio"/> Passenger Vessel |
| <input type="radio"/> Towing Vessel >26ft | <input type="radio"/> Power Recreational Vessel |
| <input type="radio"/> Towing Vessel <26ft | <input type="radio"/> Sailing Recreational Vessel |
| <input type="radio"/> Other (please specify) | |

2. What is your position associated with the vessel(s) operated in these waters? (select one)

- | | |
|---|------------------------------------|
| <input type="radio"/> Owner | <input type="radio"/> Mate |
| <input type="radio"/> Captain | <input type="radio"/> Crew |
| <input type="radio"/> Master, uninspected Towing Vessel | <input type="radio"/> Port Captain |
| <input type="radio"/> Pilot | <input type="radio"/> Dispatcher |
| <input type="radio"/> Steersman | |
| <input type="radio"/> Other (please specify) | |

3. How long have you held this position? (select one)

- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> <1 year | <input type="radio"/> 10-20 years |
| <input type="radio"/> 1-5 years | <input type="radio"/> >20 years |
| <input type="radio"/> 5-10 years | |

4. How many years have you operated a vessel from the wheelhouse on the Western Rivers?

- | | |
|----------------------------------|-----------------------------------|
| <input type="radio"/> <1 year | <input type="radio"/> 10-20 years |
| <input type="radio"/> 1-5 years | <input type="radio"/> >20 years |
| <input type="radio"/> 5-10 years | |

5. What is the highest type of training/license that you hold? (select one)

- | | |
|--|--|
| <input type="radio"/> Master of Towing Vessels, Western Rivers | <input type="radio"/> Mate 200GRT |
| <input type="radio"/> Mate Pilot | <input type="radio"/> Master 100GRT |
| <input type="radio"/> Apprentice Mate | <input type="radio"/> Mate 100GRT |
| <input type="radio"/> Master Unlimited | <input type="radio"/> OUPV |
| <input type="radio"/> Mate Unlimited | <input type="radio"/> State issued license |
| <input type="radio"/> Mate 1600GRT | <input type="radio"/> NASBLA Approved Boating Safety Courses |
| <input type="radio"/> Master 500GRT | <input type="radio"/> USCG Auxiliary Safe Boating Courses |
| <input type="radio"/> Mate 500GRT | <input type="radio"/> U.S. Power Squadron Safe Boating Courses |
| <input type="radio"/> Master 200GRT | <input type="radio"/> Unlicensed |
| <input type="radio"/> Other (please specify) | |

6. On average, how many days do you spend operating a vessel per year? (select one)

- <30 days
- 30-90 days
- 90-180 days
- >180 days

7. On what waterways do you operate? (Select all that apply)

- Arkansas River
- Verdigris River
- San Bois Creek
- Lower Mississippi River
- McKeller Lake
- White River
- Pine Bluff Harbor
- Red River
- Atchafalaya River
- Ouachita-Black River
- Minnesota River
- St Croix River River

- Upper Mississippi River
- Missouri River
- Kaskaskia River
- Illinois River
- Allegheny River
- Monongahela River
- Ohio River
- Kanawha River
- Big Sandy River
- Green River
- Clinch River
- Emory River
- Hiwassee River
- Little Tennessee River
- Little River
- Piney River River
- Tennessee River
- Tennessee-Tombigbee River
- Cumberland River
- Mobile River
- Alabama River
- Black Warrior River
- Mulberry Fork Black Warrior River
- Locust Fork Black Warrior River
- Apalachicola Chattahoochee Flint River (ACF)
- Coosa River
- Chicago River
- Sanitary Ship Canal
- Des Plains River

8. What is your Primary means to determine your position? (select one)

- Global Navigation Satellite System (GPS)
- Electronic Charting System (ECS) e.g. Rose Point, Nobeltec, CNS, etc
- Radar
- Visual Landmarks
- Other (please specify)

9. What is your Secondary means to determine your position? (select one)

- Global Navigation Satellite System (GPS)
- Electronic Charting System (ECS) e.g. Rose Point, Nobeltec, CNS, etc
- Radar
- Visual Landmarks
- Other (please specify)

10. What navigation reference materials do you use onboard when transiting? (select all that apply)

- | | |
|--|--|
| <input type="checkbox"/> Light List | <input type="checkbox"/> Commercial Chart Book or Cruising Guide |
| <input type="checkbox"/> Navigation Rules | <input type="checkbox"/> Commercial Navigation Applications |
| <input type="checkbox"/> Local Notice to Mariners (USCG) | <input type="checkbox"/> Chart Books |
| <input type="checkbox"/> Other (please specify) | |

11. What non-electronic equipment do you use to maintain situational awareness of your location on the river?

12. What navigation reference materials do you use for voyage planning? (select all that apply)

- Light List
- Navigation Rules
- Local Notice to Mariners (USCG)
- Commercial Chart Book or Cruising Guide
- Commercial Navigation Applications
- Chart Books
- River Stages and Army Corps of Engineers Surveys
- Other (please specify)

13. What format do you prefer your navigation reference materials to be in? (select all that apply)

- Electronic (Downloaded prior to getting u/w)
- Mobile Device (SMS/MMS Text)
- Web-Based (Real-Time)
- Mobile Device Application
- CD
- Paper
- Other (please specify)

14. Referencing question 13, please provide specifics on which materials you would like to receive via electronic and/or paper means.

15. If you use electronic reference material, what format do you prefer? (select one)

- PDF
- XML
- KML (GIS)
- Other (please specify)
- Shape File (GIS)
- Chart Overlay (ECDIS/ECS) Note: This is normally Marine Safety Information overlayed on your navigation screen
- I do not know

16. What do you consider to be a narrow channel? (select one)

- Less than 100 ft
- 100-200ft
- 200-300ft
- Greater than 300ft
- Other (please specify)

17. What kind of communications equipment do you have onboard? (select all that apply)

- | | |
|--|---|
| <input type="checkbox"/> HF SSB (High-Frequency Single Side Band) | <input type="checkbox"/> Mobile Device Web Browser |
| <input type="checkbox"/> VHF Marine Band Radio | <input type="checkbox"/> Mobile Device SMS/MMS Text |
| <input type="checkbox"/> AIS | <input type="checkbox"/> Internet (Satellite) |
| <input type="checkbox"/> Mobile Device Application (i.e. smartphone, tablet) | <input type="checkbox"/> Internet (Cellular) |
| <input type="checkbox"/> Other (please specify) | |

18. How do you routinely communicate your intentions with nearby vessels? (select all that apply):

- VHF Marine Radio
- AIS
- Sound/whistle signals

19. While underway, how do you prefer to obtain weather information? (select one)

- | | |
|---|--|
| <input type="radio"/> HF SSB (High-Frequency Single Side Band) | <input type="radio"/> Mobile Device SMS/MMS Text |
| <input type="radio"/> VHF Marine Band | <input type="radio"/> Internet (Satellite) |
| <input type="radio"/> Mobile Device Application (i.e. smartphone, tablet) | <input type="radio"/> Internet (Cellular) |
| <input type="radio"/> Mobile Device Web Browser | |
| <input type="radio"/> Other (please specify) | |

20. How do you obtain river stage information and dam outflow information?

- HF SSB (High-Frequency Single Side Band)
- VHF Marine Band
- Mobile Device Application (i.e. smartphone, tablet)
- Mobile Device Web Browser
- Mobile Device SMS/MMS Text
- Internet (Satellite)
- Internet (Cellular)
- Other (please specify)

21. How do you obtain current USACE survey data ?

- Mobile Device Application (i.e. smartphone, tablet)
- Mobile Device Web Browser
- Mobile Device SMS/MMS Text
- Other (please specify)
- Internet (Satellite)
- Internet (Cellular)

22. Is there any marine information that you find difficult to obtain? If so why?

23. What would be your preferred method of obtaining dam outflow and river stage data?

- HF SSB (High-Frequency Single Side Band)
- VHF Marine Band
- Mobile Device Application (i.e. smartphone, tablet)
- Mobile Device Web Browser
- Other (please specify)
- Mobile Device SMS/MMS Text
- Internet (Satellite)
- Internet (Cellular)

24. Have you observed any electronic Aids to Navigation such as AIS-ATON?

Yes

No

25. Please describe your desired aids to navigation configuration (for both buoys and beacons) for bends.

26. Please describe your desired aids to navigation configuration (for both buoys and beacons) for a straightaway.

27. Please describe your desired aids to navigation configuration (for both buoys and beacons) for any other type of channel or area not listed above.

28. Please provide any additional comments or concerns.