|  |  |  |  |
| --- | --- | --- | --- |
|  |  | Self-Reporting | Independent monitoring |
| **Data Need** | **Vessel**  | **Dealer** | **Affidavits** | **VMS** | **NEFOP Observers** | **Cameras** | **Portside** | **At-sea monitors** | **At-sea monitors** |
|  |  |  |  |  |  |  | w | w/o |
| Total herring catch accounting [ACL monitoring] | Verifying retained | Vessels report by species | Dealer reports by species |  | Can verify location fishing activity | Verifying location of fishing activity | Not quantifying, but confirming retention | Not useful for vessels fishing in more than one area | Verifying location of fishing activity | Not quantifying, but confirming retention |
| Quantifying discards | Vessels report by species |  |  | Can verify location fishing activity | Species composition dataEstimates amount of discards | Not quantifying, but confirming retention |  | Species composition data | Not quantifying, but confirming retention |
| Non-target catch accounting | Haddock catch cap monitoring [ACL monitoring] | Used for total retained |  | Can help with details of why slippage occurs | Can verify location fishing activity | Species composition dataEstimates amount of discards | Not quantifying, but confirming retention | Not useful for vessels fishing in more than one area | Species comp and estimates of discarded catch | Not quantifying, but confirming retention |
| River herring and shad catch cap monitoring | Used for total retained |  | Can help with details of why slippage occurs | Can verify location fishing activity | Species composition dataEstimates amount of discards | Not quantifying, but confirming retention | Not useful for vessels fishing in more than one area | Species comp and estimates of discarded catch | Not quantifying, but confirming retention |
| Scientific information | Stock assessments for herring | VTR only |  |  |  | Collect age, length data |  | Collect age, length data | Collect age, length data for discards only |  |
| Stock assessments for non-target species | VTR only |  |  |  | Collect age, length data |  | Collect age, length data | Collect age, length data for discards only |  |
| Spawning information |  |  |  |  | Collect age, length data |  | Collect age, length data | Collect age, length data for discards only |  |