



INTRODUCING THE INDUSTRY LEADING UNIVERSAL PFD FOR SWIFT WATER RESCUE

Universal Swift Water Rescue Vest (MRV150)

The Universal Swift Water Rescue Vest is a high buoyancy (25lbs) **USCG approved Type V SAR PFD**. The MRV150 has been developed with ongoing feedback from the water rescue community and was designed specifically to meet the Personal Protective Equipment (PPE) needs of rescue professionals facing the challenges of swift water. With an easy to adjust donning system and layered flotation foam, this vest provides a comfortable and secure fit, which improves operational performance both in and out of the water.

USCG APPROVED



MUSTANG RESCUE VEST COLOR SELECTION RATIONALE

In August 2011, Mustang Survival conducted a study entitled *On-Water Visibility* to distinguish and scientifically validate the most conspicuous color for use on Personal Floatation Devices (PFDs) and Immersion Suits (IS) when viewed on the water. Prior to this study there were no recent studies on the science of non-reflective conspicuity and the effects of color on conspicuity conducted in marine environments. The most recent Canadian standards prescribe Pantone colors (Orange, Red, and Yellow) for these products. Notably missing was high visibility ANSI approved colors which have been mandated on construction sites and within the Public Safety Community throughout North American for their high degree of visibility are not included.

The Findings:

- Research findings show fluorescent yellow-green (G) followed by fluorescent orange (O) were the most conspicuous colors for a floating target when compared to non-fluorescent red (R) and non-fluorescent yellow (Y). This result was found from simulated laboratory viewings and actual on-water experiments using human subjects.
- When viewing the colors against a simulated maritime horizon using their central vision, the test subjects judged fluorescent yellow-green and fluorescent orange, to be the more conspicuous colors compared to red, and yellow. Yellow was deemed to be the least conspicuous.
- On water testing of the four specific fabric colors showed that for both approaching and leaving a target in low or high intensity light, fluorescent yellow-green was the most conspicuous color overall, followed by fluorescent orange. Red was found to be the least conspicuous color with on-water testing.
- Minimum on-water detection distances ranged from 350 meters (red) to 1400 meters (green).

To read the full study, visit www.mustangsurvival.com/visibility.

During the creation of the Mustang MRV150 Universal Swift Water Rescue PFD, the Mustang Design team looked at the results of this study as well as user feedback regarding operational effectiveness and vest appearance. As a result of in-water real world testing, the black, ANSI fluorescent yellow-green, SOLAS™ tape color blocking as depicted on the MRV150 provided excellent appearance and more importantly allowed the user to be seen throughout a wide range of light levels in clear and muddy water environments. The extreme color gradients coupled with the Hi reflectivity of over 62 square inches of SOLAS™ tape make the MRV150 one of the most visible rescue vests available today.