

**91% = 91%:
The Seated SFST Battery**

Presented by Ari Briskman

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Learning Objectives

- 1 Become familiar with the history of field sobriety testing in the marine environment
- 2 Understand the study that scientifically validated the Seated SFST Battery
- 3 Understand the role the Seated SFST Battery can play in roadside impaired driving investigations

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Impairment on the Water

- Millions of Americans enjoy boating
- 2023: 4.9 deaths per 100,000 vessels
- 2023: \$63 million in property damage
- Alcohol is the leading known contributor in fatal boating crashes

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Alcohol and Boating: A Deadly Combination

- The Vessel** No brakes, no seatbelts, no protection
- The Water** No speed limits (generally), no marked lanes, obstacles galore
- The Operator** No license (generally), no formal training (often), open alcoholic beverages, many distractions
- The Public** Apathy until tragedy strikes, disdain for restrictions on behavior, desire to hamper law enforcement's abilities

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Early Boating Under the Influence (BUI) Enforcement Efforts

- BUI was not always illegal
- Lack of training for investigators
- BUI was not a priority for potential investigators
- Existing training was inadequate for maritime purposes



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1987 US Coast Guard Study

Objective

Determine the usefulness of a field sobriety test (FST) battery in the marine environment.

Participants

- Maryland DNR / Ohio DOW officers
- 97 volunteer drinkers

FSTs

Alphabet Recital, Hand Pat, Finger to Nose, Finger Count, HGN, WAT, OLS.

FST Location

Water: Alphabet Recital, Hand Pat, Finger to Nose, Finger Count, HGN.
Land: HGN, (10 minutes) WAT, OLS.

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Major Takeaways

Test Accuracy

Under recreational boating conditions, the tests are as accurate as when evaluated under simulated highway conditions.

Officer's BAC Estimates

Administering the entire test battery improved officers' BAC estimates vs. observations and an interview only.

HGN Test

Provided the most accurate information above the other tests.

Water vs. Land

No significant difference in the accuracy of the officer's BAC estimates.

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Conclusions

- This study did not scientifically validate a seated SFST battery
- The results were convincing, but more research was needed

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An Experimental Evaluation of a Field Sobriety Test Battery in the Marine Environment

DTIC

Department of Transportation

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Laying the Groundwork

The Robustness of the Horizontal Gaze Nystagmus Test (Burns, 2007)

- Like prior NHTSA-funded research, this study was conducted through the Southern California Research Institute.
- "Participants' position (standing, sitting, or lying down) had no statistically significant effects on officers' reports of HGN signs."

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Limitations of the Standing SFSTs for Maritime purposes

- Age and weight of the test subject
- Custody issues when moving the subject
- "Sea legs"

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USCG Joins Forces with NASBLA

2007 – USCG funded a study sponsored by NASBLA to develop a seated SFST battery that met the following criteria:

- Must be seated
- Must be effective in detecting impairment at 0.08
- Must be easy to administer
- Must not rely on equilibrium

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Study – Year 1

- 1,146 BUI reports from agencies in 14 states
- 15 tests were identified as showing promise
- 6 of the 15 tests were selected for the study

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Study – Year 1: The Tests

- Finger to Nose
- Time Estimation
- Finger Count
- Hand Coordination
- Palm Pat
- Horizontal Gaze Nystagmus

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Study – Year 2

Objective: Identify the most alcohol-sensitive tests

- 157 drinkers evaluated by 24 officers
- Officers did not know the drinkers' BrACs
- Officer only administered one test without more interaction
- The drinkers were dosed to various BrAC levels



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Study – Year 2: Results

Test Accuracy

HGN was found to be the most reliable test in predicting a BrAC of 0.08 or higher (55%), followed by Finger to Nose (48%), Palm Pat (46%), and Hand Coordination (46%).

Why were the percentages lower?

- Average BrACs were below previous studies
- Decisions were made exclusively on the drinkers' test performance
- Officers were not equally proficient



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Study – Year 3: Objectives

DEVELOP

standardized, practical, and effective procedures for officers to use in reaching arrest or release decisions. This led to:


1. Standardized administrative procedures
2. Standardized clues
3. Standardized evaluation criteria

TEST

the feasibility of the procedures in the marine environment

SECURE DATA

to determine if the tests will discriminate in the field, as well as in the laboratory



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Study – Year 3: The Field

SCRI researchers rode with Missouri State Water Patrol on the Lake of the Ozarks for four months

- Four experienced officers
- Officers received four days of training specifically for the study
- Subjects' BrACs were confirmed with PBTs

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Study – Year 3: The Stops

- 331 boat stops
- 58% of probable cause stops = BrAC ≥ 0.08
- 42% of all stops = BrAC ≥ 0.08

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Study – Year 3: Results

| Test | Number of Clues | Percentage |
|---------------------------|-------------------------------|-----------------|
| Horizontal Gaze Nystagmus | 4 or more clues = BrAC ≥ 0.08 | 80% of the time |
| Finger to Nose | 9 or more clues = BrAC ≥ 0.08 | 65% of the time |
| Palm Pat | 2 or more clues = BrAC ≥ 0.08 | 57% of the time |
| Hand Coordination | 3 or more clues = BrAC ≥ 0.08 | 52% of the time |

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Study – Year 3: Results (continued)

| Test | With Minimum Number of Clues | Percentage |
|--------------------------|------------------------------|------------------------|
| HGN + 1 other test | = BrAC ≥ 0.08 | 82% of the time |
| FTN, PP, and HC (no HGN) | = BrAC ≥ 0.08 | 76% of the time |
| All four tests | = BrAC ≥ 0.08 | 91% of the time |



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Study – Year 3: Major Takeaways

FIRST


significant assessment of the overall effectiveness of the Seated SFST battery under actual enforcement conditions


FIRST

time objective clues and scoring criteria had been defined and assessed for the tests

UNMISTAKABLY

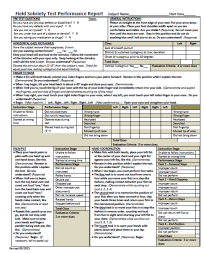
validated the Seated SFST battery





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Field Sobriety Test Performance Report




Instructions

This form contains the instructions for both the Seated SFST Battery and the Standing SFST Battery (on the rear)

Documentation

NASBLA requires the use of this form to document an individual's performance during the Seated SFST Battery



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Pre-Test Questions

PRE-TEST QUESTIONS

Do you have any physical defects or disabilities? Y N
 Do you have any defects with your eyes? Y N
 Are you sick or injured? Y N
 Are you under the care of a doctor or dentist? Y N
 Are you taking any medication or drugs? Y N

Notes:

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Administration of the Seated SFST Battery

GENERAL INSTRUCTIONS:
 Please sit straight at the front edge of your seat. Put your arms down at your sides. Place your feet shoulder-width apart so you are comfortable and stable. Are you stable? (Response) Do not move your feet until the tests are over. Stay in this position and do not do anything else until I tell you to do so. Do you understand? (Response)

Notes

1. Officer safety is an important consideration when administering the Seated SFST Battery.

2. If any of the standardized elements of the tests are changed, their validity will be threatened.



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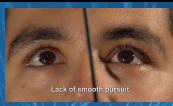
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Horizontal Gaze Nystagmus Test


HORIZONTAL GAZE NYSTAGMUS
 Have the subject remove their eyeglasses, if worn.
 Are you wearing contact lenses? Yes ___ No ___
 Keep your head still and look at the stimulus. Follow the movement of the stimulus with your eyes only. Keep looking at the stimulus until told the test is over. Do you understand? (Response)
 Fixate the stimulus about 12-27° from the subject's nose. Check for equal pupil size, resting nystagmus and equal tracking.

| Clues | 6 | Left | Right |
|--------------------------------------------------|---|------|-------|
| Lack of smooth pursuit | | | |
| Distinct & sustained nystagmus at max. deviation | | | |
| Onset of nystagmus prior to 45-degree | | | |
| Total Clues | | | |

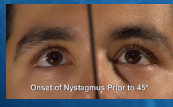
6 possible clues



Lack of smooth pursuit



Distinct & Sustained Nystagmus at Maximum Deviation



Onset of Nystagmus Prior to 45°

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Major Takeaways

The Clues

Like the Standing SFST Battery, the clues in the Seated SFST battery have been scientifically validated by the SCRI.

The evaluation criteria for each test in the Seated SFST Battery has a direct correlation to a subject's BRAC.

Arrest / Release Decision

An officer's arrest or release decision must always be based on the totality of the circumstances.

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Common Challenges to the Standing SFSTs

Roadway conditions

Weather conditions

The suspect's age, weight, and disabilities

The suspect's prior DUI arrests

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Seated SFSTs Off the Water

| Location | Keep it Standardized | Additional Note |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The suspect's location may dictate the Standing SFST Battery cannot be completed.</p> <p>Snowmobiles, ATVs, and off-road vehicles may be in areas where a reasonably level surface with sufficient room is not available.</p> | <p>If any of the standardized elements of the Seated SFST Battery are changed, their validity will be threatened.</p> | <p>The Seated SFST Battery does not replace the Standing SFST Battery for roadside impaired driving investigations.</p> <p>Officers should administer the Standing SFST Battery with every person they suspect of impaired driving, unless circumstances dictate they cannot.</p> |

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Training Courses Offered by NASBLA

Seated SFST Battery Transition Course

- 8 hours
- Designed for officers who are already trained in the Standing SFST Battery
- Does not require any knowledge or experience with maritime operations or law

Seated SFST Battery Refresher Course

- 4 hours
- Designed for officers who have completed a Seated SFST Battery course
- Recommended for completion every two years



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Training Courses Offered by NASBLA

BUI Detection and Enforcement Essentials

- 14 hours
- Designed for officers who are new to the maritime environment and who have previously completed DUI enforcement training

Comprehensive BUI Detection & Enforcement

- 24 hours
- Designed for officers with no DUI or BUI enforcement training, or those who have not utilized that training for an extended period



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Training Courses Offered by NASBLA

Advanced BUI Detection & Enforcement

- 12 hours
- Designed for officers with previous DUI and BUI training
- Provides training for officers to observe, identify, articulate, and document signs of impairment related to drugs, alcohol, or a combination thereof

BUI Enforcement / Seated SFST Trainer Development

- 24 hours
- Designed for officers with previous DUI / BUI training, and instructor development training
- Prepares officers to present NASBLA course material to future participants



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The Seated SFST Battery is a scientifically validated set of tests designed to identify impairment and assist officers in making an arrest or release decision.







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The Seated SFST Battery was scientifically validated by the same entity, the Southern California Research Institute, that scientifically validated the Standing SFST Battery.





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| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>The <u>Seated SFST</u> Battery was <u>scientifically validated</u> with officers making the correct arrest or release decision using all four tests 91% of the time.</p> | <p>The <u>Standing SFST</u> Battery was <u>scientifically validated</u> with officers making the correct arrest or release decision using all three tests 91% of the time.</p> |
| <p>91% = 91%</p> | |
| <p> </p> | |

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Thank You!

- National Association of State Boating Law Administrators
- Todd Radabaugh, NASBLA BUI Program Manager
- Dr. Dary Fiorentino
- Jennifer Cifaldi, Illinois Traffic Safety Resource Prosecutor

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