Navigation Sediment Placement Database

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2018 Regional Sediment Management (RSM) In-Progress-Review

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Project Overview

• Nationwide inventory of Federal Navigation projects
• Determine extent to which RSM goals and BUDM have been implemented
  • Since 1998 when 67th CERB theme was “Regional Sediment Management”
• Data sources: IWR Navigation Data Center’s Dredging Information System (DIS) and internal District databases
• Products: Web-application, 2 databases, report, transition plan/user guide
Dredged Sediment Management Type
1995-2011

- beach nourishment & upland: 1%
- undefined or not described: 7%
- wetland nourishment and creation: 8%
- upland: 7%
- confined: 9%
- underwater confined: 1%
- overboard and open water: 47%
- mixed: 10%

23% = “Unknown”

Modified from Childs 2015
DIS Database “Refinement”

- QA/QC all 4,205 individual projects since 1998
- Excellent DIS data = no unknowns
- District’s internal databases
  - MVN, MVM, SPL, SPN, NWP, SWT, NAE
- Interviews – discuss specific questions
- District Specific/QC database
Results (1998 to 2016)

• 200-300 Mcy dredged annually by USACE* & 20-30% is used beneficially*

• 215 Mcy/yr from navigation projects Nationwide

• 75 Mcy/yr used beneficially – 35% (only 25% in DIS)
  • 14.1 Mcy/yr ➞ Beaches
  • 14.9 Mcy/yr ➞ Wetlands
  • 48.1 Mcy/yr ➞ Littoral (in-water)

• 5.9 Mcy/yr = Unknown (45.2 Mcy/yr in DIS)

*EPA & USACE, 2007
<table>
<thead>
<tr>
<th>District</th>
<th># of Events</th>
<th># RSM Events</th>
<th>RSM Vol (cy/yr)</th>
<th>Total Vol (cy/yr)</th>
<th>Beach (cy/yr)</th>
<th>Upland (cy/yr)</th>
<th>Open Water (cy/yr)</th>
<th>Littoral/In Water (cy/yr)</th>
<th>Upland (cy/yr)</th>
<th>Open Water (cy/yr)</th>
<th>Littoral/In Water (cy/yr)</th>
<th>Unknown (cy/yr)</th>
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</thead>
<tbody>
<tr>
<td>LRB</td>
<td>137</td>
<td>1</td>
<td>5,413</td>
<td>1,662,541</td>
<td>5,413</td>
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<td>8,050</td>
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<tr>
<td>LRC</td>
<td>39</td>
<td>19</td>
<td>87,219</td>
<td>223,299</td>
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<td>74,028</td>
<td>101,272</td>
<td>29,862</td>
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<tr>
<td>LRE</td>
<td>236</td>
<td>118</td>
<td>425,396</td>
<td>1,144,462</td>
<td>275,188</td>
<td>118,908</td>
<td>24,839</td>
<td>6,459</td>
<td>585,970</td>
<td>18,123</td>
<td>114,972</td>
<td>5,848,220</td>
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<tr>
<td>Totals</td>
<td>6,836</td>
<td>2,735</td>
<td>85,896,390</td>
<td>214,596,540</td>
<td>14,100,780</td>
<td>7,221,733</td>
<td>14,921,546</td>
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<td>41,823,546</td>
<td>74,341,593</td>
<td>6,686,760</td>
<td>5,848,220</td>
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</tbody>
</table>
### East Pass Destin

#### Fact Sheet

- **# of Events:** 1
- **# of RSM Events:** 1
- **Total Vol (cy/yr):** 800,000

<table>
<thead>
<tr>
<th>Category</th>
<th>Volume (cy/yr)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beach</td>
<td>800,000</td>
</tr>
<tr>
<td>Upland (RSM)</td>
<td>0</td>
</tr>
<tr>
<td>Upland (Disposal)</td>
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</tbody>
</table>

#### Totals vs Yearly Volumes

<table>
<thead>
<tr>
<th>Project Name</th>
<th># of Events</th>
<th># RSM Events</th>
<th>RSM Vol (cy/yr)</th>
<th>Total Vol (cy/yr)</th>
<th>Beach (cy/yr)</th>
<th>Upland (RSM) (cy/yr)</th>
<th>Littoral/In Water (cy/yr)</th>
<th>Open Water (cy/yr)</th>
<th>Upland (Disposal) (cy/yr)</th>
<th>Littoral/In Water (cy/yr)</th>
<th>Total Vol (cy/yr)</th>
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<tbody>
<tr>
<td>Coastal Project 27.301N</td>
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<td>3,735,079</td>
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<td>0</td>
<td>0</td>
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<td>3,735,079</td>
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<tr>
<td>East Pass Destin</td>
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<td>1</td>
<td>800,000</td>
<td>800,000</td>
<td>0</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>800,000</td>
</tr>
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<td>GIWW / Gulf Intracoastal</td>
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<td>6</td>
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<td>0</td>
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<td>Totals</td>
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<td>70</td>
<td>7,510,083</td>
<td>20,101,164</td>
<td>1,086,689</td>
<td>302,082</td>
<td>6,121,311</td>
<td>3,182,810</td>
<td>7,088,886</td>
<td>2,319,876</td>
<td>20,101,164</td>
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</tbody>
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**https://gim2.aptim.com/RSM**
Next Steps

• Obtain & load 2017 DIS and internal District data
• QA/QC
• Meet with Districts
• Finalize report
• Submit transition plan/user guide
Congratulations Linda!

• **ASBPA 2018 “Lifetime Achievement” Award**

• This award is given to an ASBPA member who demonstrates a **lifetime of dedicated service** to advancing shore and beach preservation while working in the federal government and though active participation in ASBPA.

• This award is only occasionally given when a **truly extraordinary** candidate is nominated.
Thank you!

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