Growing Your LIVING SHORELINE

The Icing on the cake
Todays Take Home Notes

• 1  **G**rain Size

• 2  **W**ind Speed and Direction

• 3  **B**each Function
Grain Size

- Small, Medium or Large
- Rough or Smooth
- Amount of shell or rock
- Compaction at time of placement
Wind Speed

• Predominate direction

• Speed from that direction

• Annual Speed and Directions

• Dominate erosion direction
Beach Function

• Why is it here and why spend the money

• Who uses and how

• Protection or recreation

• Eco-system or Ascetics
Threshold to move sand ~ 10 mph

average speed ~12 mph
GRAIN SIZE
Beach Function

• Why is it here and why spend the money

• Who uses and how

• Protection or recreation

• Eco-system or Ascetics
Eco-system (Living Shoreline)

• Beach Type
• Plants
• Animals
• Sand
• Water
• Wind
• Structures
• MAN
Typical Beach
<table>
<thead>
<tr>
<th>Wind Speed (MPH)</th>
<th>Grain Size</th>
<th>Beach Type</th>
<th>Sand Fence and Vegetation</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUSTY +15</td>
<td>FINE</td>
<td></td>
<td>SAND FENCE 7-11</td>
</tr>
<tr>
<td>HIGH +10</td>
<td>MEDIUM</td>
<td>FLAT</td>
<td>TALL PLANTS 3-11</td>
</tr>
<tr>
<td>MEDIUM 5-10</td>
<td>COURSE</td>
<td>TIE-BACK</td>
<td>MEDIUM PLANTS 3-9</td>
</tr>
<tr>
<td>LOW 0-5</td>
<td>SHELL/ROCK</td>
<td>DUNE</td>
<td>LOW PLANTS 3-6</td>
</tr>
</tbody>
</table>
Engineered Beaches 3 Types