Updating Fisher Template PCA Hull to Reflect Recent Tree Mortality

• Updated variables (2016 EVEG):
  – PLAND of CWHR
  – PLADJ of CWHR
  – TTCFA_GE70
  – TTCFA_LT40

• Variables not yet updated (2012 GNN):
  – SNAGDENS
  – BA_MN
  – QUKE_BA
  – DDI

PCA of home ranges (2008-2014ish EVEG + 2012 GNN) projected for hexagons in SEQ that have updated EVEG (with 100% coverage, N = 175) characterized by 2012 GNN + 2016 EVEG variables.
Change in CWHR (PLAND, PLADJ)
Change in TTCFA_GE70
Change in TTCFA_LT40

Legend

Updated EVEG extent
Hexagons with updated EVEG

TTCFA_LT40 Change
- Gain
- Stable
- Loss

Note
Change in Legend
175 hexagons not ‘low site potential’ and contain entirely updated EVEG:

92.5% (49/53) of suitable hexagons have become unsuitable and
99.2% (121/122) unsuitable hexagons remained unsuitable

<table>
<thead>
<tr>
<th></th>
<th>Mean change (stdev)</th>
<th>Mean % change (stdev)</th>
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<tbody>
<tr>
<td>PLAND</td>
<td>-22.97 (19.49)</td>
<td>-60.90 (26.92)</td>
</tr>
<tr>
<td>PLADJ</td>
<td>-13.01 (13.82)</td>
<td>-15.77 (17.90)</td>
</tr>
<tr>
<td>TTCFA_GE70</td>
<td>-9.52 (15.38)</td>
<td>*-33.28 (32.50)</td>
</tr>
<tr>
<td>TTCFA_LT40</td>
<td>+12.36 (25.79)</td>
<td>224.62 (821.12)</td>
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</tbody>
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*Excludes the 44 hexagons with old TTCFA_GE70 values = 0, can’t calculate (no 0 denominator)
Original PCA
(old EVEG +
2012 GNN)
Original PCA (old EVEG + 2012 GNN), showing only hexagons with updated EVEG
Projected PCA
(2016 EVEG + 2012 GNN)
USFS Tree Mortality Survey 2016 (current as of July 2016)
USFS Tree Mortality Survey 2016 (current as of July 2016)

Highlighted hexagons Suitable with old EVEG, Unsuitable with 2016 EVEG