HUMAN SYSTEMS IN WEED MANAGEMENT

A REVIEW OF CURRENT PRACTICES, BEST PRACTICES AND WHY THERE IS A DIFFERENCE

Mark Heath - Shelterbelt
Plants and people use the world differently.
We design projects for the benefit of natural systems, but often on our own terms.
Sometimes our terms compromise the overall project.

At what point do we make the call to continue with our terms? DO WE EVER DO MORE HARM THAN GOOD?
INSURING FUNDING RATHER THAN FUNDING HOPE
Control Impacts
# Maintaining Continuous Funding

<table>
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<tr>
<th></th>
<th>Acreage</th>
<th>Initial Removal</th>
<th>YEAR 1</th>
<th>YEAR 2</th>
<th>YEAR 3</th>
<th>YEAR 4</th>
<th>YEAR 5</th>
<th>YEAR 6</th>
<th>YEAR 7</th>
<th>YEAR 8</th>
<th>YEAR 9</th>
<th>YEAR 10</th>
<th>YEAR 11</th>
<th>Total Effort</th>
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## 3 Year Grant

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<th>YEAR 9</th>
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MANAGING BEYOND JURISDICTIONS

PLANTS ARE TYPICALLY TERRIBLE WITH DIRECTION
WATER DISTRICT RIGHT-OF-WAY

RESTORATION SITE
ALL IN MAINTENANCE

• Pre & Post Emergent Herbicides
• Hand weeding
• Hand watering
• $400K over 4 years for 1/8 acre of restored area; $200K in design/monitoring fees.
ONE DAY OF SUCCESS DURING THE FINAL MONITORING EVENT 2 YEARS LATER. COVERED IN MUSTARD AND RADISH AGAIN
IS THIS REALLY MITIGATION!?!?
NATURE’S SCHEDULE VERSUS OUR OUTLOOK CALENDAR
OPTIMUM TIMING
WHAT IF END OF FISCAL YEAR DETERMINES TIMING?
FISCAL YEARS

JUNE – JULY block out dates for State/City/County budget cycles
OCTOBER – NOVEMBER block out dates for Federal budget cycles
DECEMBER – JANUARY block out dates for holidays
LET’S JUST TRY AGAIN NEXT YEAR
STUCK TO A PLAN
WHAT IF RESTORATION IS NO LONGER NEEDED?
WHY DOES IT MATTER
WE ARE EVOLVING