# Format for Agricultural Panel

Central Coast Regional Board Meeting – September 20, 2018

<table>
<thead>
<tr>
<th>Farm Management Considerations</th>
<th>Topic Coordinator: Abby Taylor-Silva</th>
<th>Subjects</th>
</tr>
</thead>
</table>
| 30 min Food Safety Confirmed: Scott Horsfall, Joe Pezzini, Dan Sutton | Topic Committee Members: | 1. Human health  
2. Legal food safety mandates  
3. Audits  
4. SGMA and future water use  
5. Public/Private research |
| 10 min General Farm Management | | 1. Harvesting decisions  
2. Role of Shipper vs. Grower |

<table>
<thead>
<tr>
<th>Nutrient, Irrigation &amp; Pesticide Management</th>
<th>Topic Coordinator: Kirk Schmidt</th>
<th>Subjects</th>
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| 30 min Irrigation Management | Topic Committee Members: Abby Taylor-Silva | 1. Evolution of irrigation  
2. Pre-planting field prep  
3. Germination/starts/transplant technology  
4. MCRWQ irrigation type chart  
5. Irrigation difference Castroville vs. King City & ET  
6. ESJ outliers & sub-growing regions  
7. Salt leaching factor  
8. Research needs and regulatory challenges |
| 30 min Nutrient Management | | 1. 4R’s of fertilizer: Right Amount, Right Time, Right Source, Right Place  
2. 1970 fertilizer application vs. today  
3. UCCE Crop studies yield and N  
4. RWQCB uptake chart  
5. Photos of diverse crop ranch  
6. Harvest decisions  
7. Applied/Uptake/Removed data  
8. ESJ R studies and adoption by RWQCB  
9. Lettuce thinning  
10. Compost use  
11. Research needs and regulatory challenges |
| 30 min Pesticide Management | | 1. Toxicity  
2. Usage  
3. Integrated Pest Management  
4. Application and formulation technologies  
5. How pesticides leave the farm |
### Item No. 6

#### Confirmation of Speakers (Nutrient, Irrigation, and Pesticide Topics):
Steve McIntyre, Jim Stolberg, David Costa, Jocelyn Bridson, Mark Mason, Tim Borel, Jackie Vasquez, Joel Wiley, A.J. Cisney

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<table>
<thead>
<tr>
<th>Generating Meaningful Data &amp; Balancing the Level of Detail with Reporting Burden</th>
<th>Topic Coordinator: Claire Wineman</th>
<th>Subjects</th>
</tr>
</thead>
</table>
| 45 min | **Agricultural Associations**
Claire Wineman, Parry Klassen, Abby Taylor-Silva, George Adam (potentially including growers with direct experience in reporting) | 1. Nitrogen Applied and Removed Reporting considering:
   - Multiple crop rotations
   - Operator rotations and movement
   - Utilizing high-nitrate irrigation water
   - Multiple crop types
2. INMP and Reporting
3. Groundwater monitoring and reporting and coordination with SGMA requirements
4. Streamlining reporting forms and GeoTracker |

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<table>
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<tr>
<th>Looking Forward/Summations</th>
<th>Topic Coordinator: Kirk Schmidt</th>
<th>Subjects</th>
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| 25 min | **Agricultural Associations**
Kirk Schmidt, Abby Taylor-Silva, Kris Beal, Parry Klassen, Jason Sharrett, Norm Groot (potentially including growers) | 1. Continued improvements: long-term, on-going iterative process
2. Safe drinking water
3. Quality, industry-driven education and outreach
4. Innovation
5. Fair, predictable, consistent, transparent enforcement process |
Figure 14. Changes in Irrigation Methods Used Over Time (1993 – 2016) in Zones 2, 2A, and 2B.

Figure 15. Top Ten BMPs Forecasted for 2016 Based on Reported Net Acres.
UCCE Crop Studies
1958-2017
Head Lettuce - Salinas Valley

Lettuce Yield - 24ct Box
Lettuce # Nitrogen applied/acre

Studies 2009 and earlier also included 2.5 tons of manure per acre
#N per box declined from 0.42# to 0.18#
<table>
<thead>
<tr>
<th>Crop</th>
<th>A - Typical N Crop Uptake Ranges (lbs./acre)</th>
<th>B - Harvest N Removed (lbs./acre)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Broccoli</td>
<td>180</td>
<td>60</td>
</tr>
<tr>
<td>Cabbage</td>
<td>180</td>
<td>180</td>
</tr>
<tr>
<td>Cauliflower</td>
<td>180</td>
<td>60</td>
</tr>
<tr>
<td>Celery</td>
<td>200</td>
<td>120</td>
</tr>
<tr>
<td>Lettuce</td>
<td>120</td>
<td>50</td>
</tr>
<tr>
<td>Baby lettuce</td>
<td>70</td>
<td>46</td>
</tr>
<tr>
<td>Spinach (Bunch)</td>
<td>120</td>
<td>78</td>
</tr>
<tr>
<td>Spinach (Baby)</td>
<td>74</td>
<td>48</td>
</tr>
<tr>
<td>Spinach (Tennage)</td>
<td>94</td>
<td>61</td>
</tr>
<tr>
<td>Strawberry</td>
<td>200</td>
<td>92</td>
</tr>
<tr>
<td>Blueberry</td>
<td>275</td>
<td>19</td>
</tr>
<tr>
<td>Bell Pepper</td>
<td>200</td>
<td>80</td>
</tr>
<tr>
<td>Mizuna (rep salad mix vegetable)</td>
<td>99</td>
<td>58</td>
</tr>
<tr>
<td>Cilantro</td>
<td>104</td>
<td>57</td>
</tr>
<tr>
<td>Tomato</td>
<td>240</td>
<td>120</td>
</tr>
</tbody>
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Strawberry Commission Meeting, August 8, 2017
Chris Rose & Peter Meertens, Central Coast Water Board