



California Bioresources  
Economy Summit

**Session 1:  
Bioresources  
Information**

Moderator: Corinne Scown (LBNL/UCB)

Speakers: Kevin Fingerman (Humboldt State University), Rachelle Hedges (UCB), Kyle Pogue (CalRecycle), Angela Lottes (CAL FIRE)

# Panel Introduction

Kevin Fingerman



Humboldt State

Rachelle Hedges



UC Berkeley

Kyle Pogue



CalRecycle

Angela Lottes



CAL FIRE

- Experts in: bioenergy life-cycle assessment, forest management, technoeconomic analysis, municipal waste management, forest health

# Session Structure









- 5 min introduction
- 10 min talks for each speaker
- 15 min panelist discussion
- 10 min audience Q&A
- 5 min wrap-up and actionable recommendations

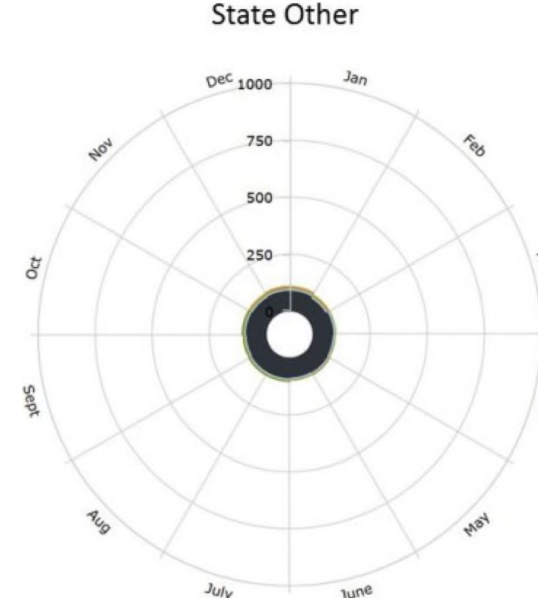
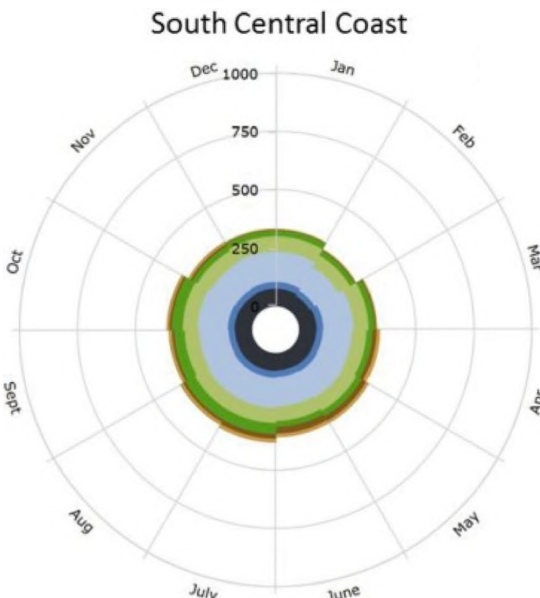
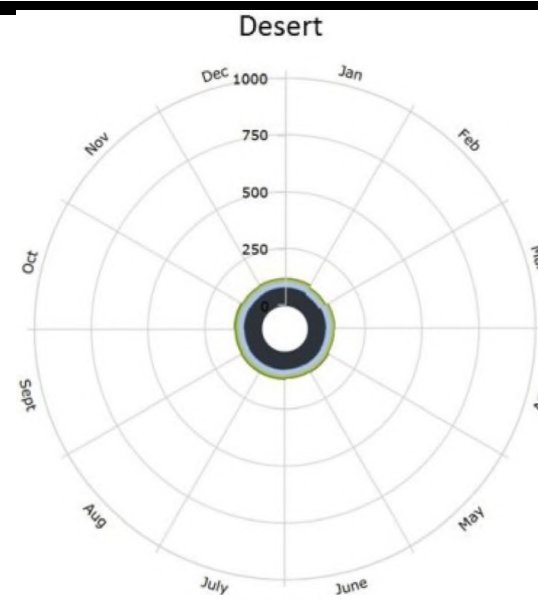
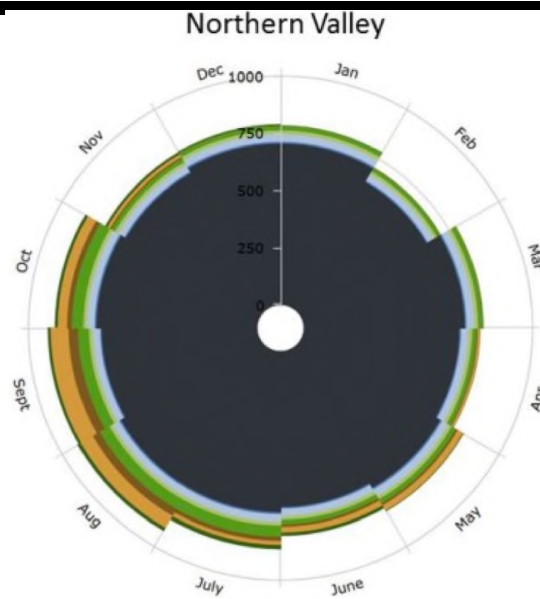
# Session Goals

- Provide overview of organic residue resources across California
- Establish policy context for prioritizing collection/diversion/utilization of a range of organic materials
- Report on available datasets and knowledge gaps
- Recommend next steps



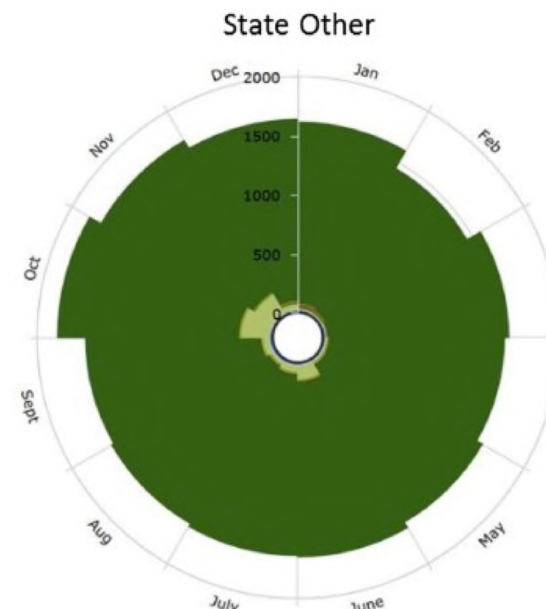
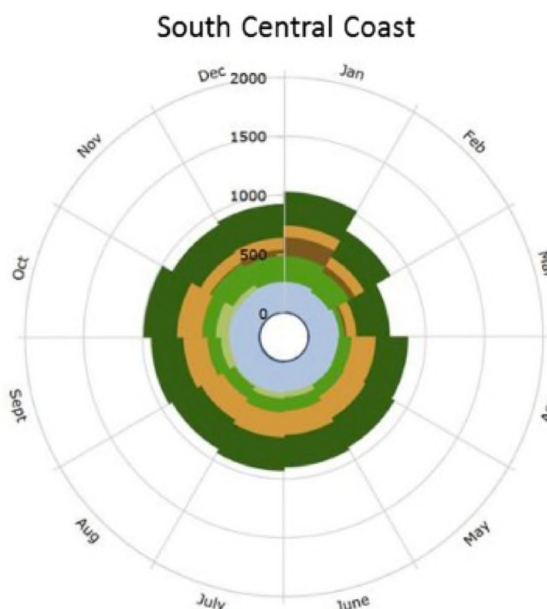
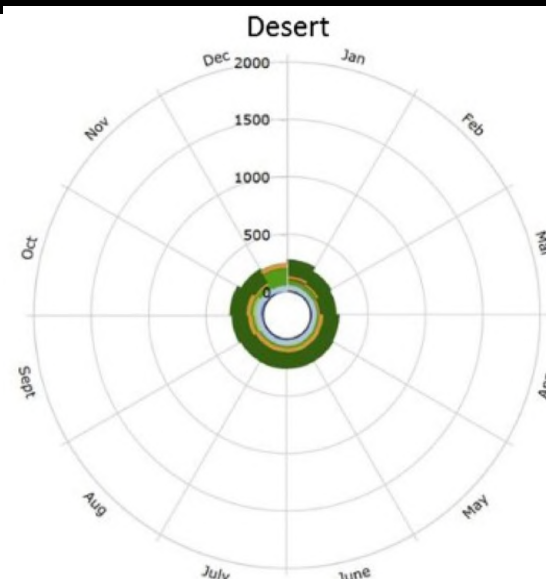
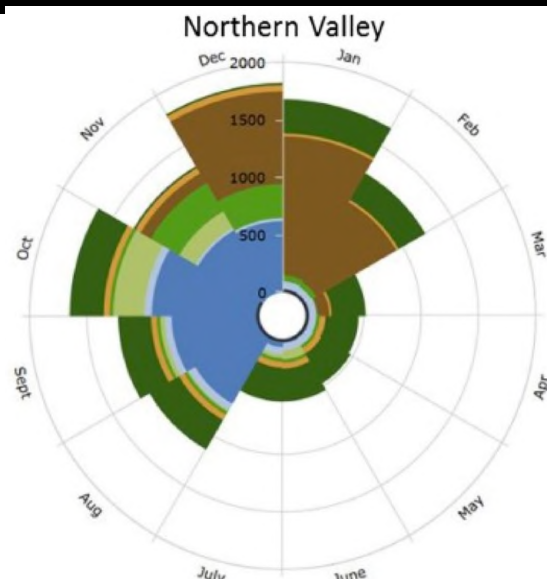
# High-Moisture Solids (thousand BDT/yr)

-  Orchard & Vineyard Culls
-  Row Crop Culls
-  Row Crop Residue
-  Processor High Moisture Solids
-  Food/FOG MSW
-  Other MSW
-  Biosolids
-  Manure



- High-moisture solids are fairly consistent month-to-month and dominated by manure
- Next largest contributor is MSW
- Row crop culls, high-moisture crop residue, and food processor waste are more seasonal
- MSW concentrated in populous South Central Coast region
- Manure concentrated in Northern Valley region

# Low-Moisture Solids (thousand BDT/yr)



- Forestry residue is likely to dominate low-moisture organic residue availability
- Orchard & vineyard residue and food processor low-moisture waste next largest contributors
- Processor low-moisture solids made up largely of almond waste
- Seasonality less problematic for low-moisture waste but does require storage

# Assembling & Disseminating Actionable Information

- Excellent datasets already generated by multiple groups but not necessarily housed in easy-to-access or visualize, centralized locations



- Questions:
  - What information would be most helpful to stakeholders seeking organic material for new or existing projects?
  - What information would help stakeholders looking for markets for their organic material?
- Feedback so far:
  - Contact info for local haulers, who often operate as match-makers
  - Contact info for waste sources and waste-to-energy facilities
  - More information about region-specific incentives (e.g. Opportunity Zones)
  - More granularity on gross vs. technical potential and ability to alter specific assumptions
  - Link with best-available cost information