

# Use of Almond Hull and Shell as Organic Matter Amendments in Advanced Orchard Management

## Milestones/Activities/Measurements

- Treatments: yellow**
- Soil Objective: orange**
- Plant Objective: green**
- Economic Objective: blue**
- Educational Objective: purple**

## 2020

| Aug | Sep  | Oct                                  | Nov         | Dec |
|-----|--|--------------------------------------|-------------|-----|
|     | Catch frame harvest                                      | Apply HS OMA                         |             |     |
|     | Yields   | Document application cost            |             |     |
|     | Document machinery passes, yield value, HS market prices | HS sample, analyze                   |             |     |
|     |  | Decomposition rings: sample, analyze |             |     |
|     |  | Soil sample, prepare, analyze        |             |     |
|     | Initiate social media collaborations                     | Microbial samples, analysis          |             |     |
|     | Create stakeholder-developed survey                      |                                      | Conferences |     |

## 2021

| Jan   | Feb                        | Mar                          | Apr | May | Jun                                   | Jul                          | Aug  | Sep                                  | Oct         | Nov | Dec |
|---|----------------------------|------------------------------|-----|-----|---------------------------------------|------------------------------|--|--------------------------------------|-------------|-----|-----|
| Trunk circumference                             | Analyze data               |                              |     |     | Decomposition rings: collect, analyze | July leaf samples            | Catch frame harvest                                      | Apply HS OMA                         |             |     |     |
| Analyze data                                    |                            |                              |     |     |                                       | Microbial samples & analysis | Yields   | Document application cost            |             |     |     |
| Summarize economic data collected previous year |                            | Microbial samples & analysis |     |     |                                       |                              | Document machinery passes, yield value, HS market prices | HS sample & analyze                  |             |     |     |
|   |                            |                              |     |     |                                       |                              |  | Decomposition rings: sample, analyze |             |     |     |
|   |                            |                              |     |     |                                       |                              |  | Soil sample, prepare, analyze        |             |     |     |
| Conduct online survey                           | Analyze all survey results |                              |     |     |                                       |                              |  | Microbial samples & analysis         |             |     |     |
| Develop media outreach                          |                            |                              |     |     |                                       |                              |  |                                      | Conferences |     |     |

## 2022

| Jan   | Feb          | Mar                          | Apr | May | Jun                                   | Jul                          | Aug  | Sep   | Oct                       | Nov         | Dec |
|---|--------------|------------------------------|-----|-----|---------------------------------------|------------------------------|--|---|---------------------------|-------------|-----|
| Trunk circumference                             | Analyze data |                              |     |     | Decomposition rings: collect, analyze | July leaf samples            | Catch frame harvest                                      | Apply HS OMA  | Document application cost |             |     |
|   |              | Microbial samples & analysis |     |     |                                       | Microbial samples & analysis | Yields   | HS samples, & analyze                                       |                           |             |     |
| Analyze data                                    |              |                              |     |     |                                       |                              | Document machinery passes, yield value, HS market prices | Soil sample, prepare, analyze                               |                           |             |     |
| Summarize economic data collected previous year |              |                              |     |     |                                       |                              |  | Additional tests for bulk density, CEC, aggregate stability |                           |             |     |
| Analyze survey results                          |              |                              |     |     |                                       |                              |  | Microbial samples & analysis                                |                           | Conferences |     |
| Develop media outreach                          |              |                              |     |     |                                       |                              |  |   |                           |             |     |

## 2023

| Jan   | Feb   | Mar | Apr | May                                     | Jun                                   | Jul |
|---|---|-----|-----|---|---------------------------------------|-----|
| Trunk circumference                             | Analyze data                                  |     |     | Final workshop, conduct pre/post survey | Analyze, summarize all survey results |     |
| Water retention curves                          | 3 on-site field days, conduct pre/post survey |     |     | Writing publications                    |                                       |     |
| Analyze data                                    |   |     |     |   |                                       |     |
| Summarize economic data collected previous year |   |     |     |   |                                       |     |
| Analyze survey results                          | Media outreach                                |     |     |   |                                       |     |