**APPENDIX 1-7: Chlorpyrifos Scenario Development**

# Use Scenarios

## Corn

Chlorpyrifos\_corn – All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant; broadcast | 17 days before emergence | Ground | 1.6 | liquid | Soil incorporation permitted at a higher application rate (3.0 lb a.i./A); however, runoff erosion is expected to be higher when application that are not incorporated; therefore, assumed highest post emergence/foliar applications; although material is incorporated to 2 inches still assumed spray drift with a 25 ft buffer |
| 2 | At Plant, granular | 7 days before emergence | Ground; incorporated | 2.0 | solid | Seed treatment permitted at 1.9 lb a.i./A and granular application permitted at 2.0 lb a.i./A; assumed 7 day germination to sprout; assumed no spray drift for seed/granular application; assumed granular application distributed in top 2 inches not incorporate to seed depth |
| 3 | Post emergence/Foliar broadcast | 3 days (3) after emergence | Aerial | 1.5 | liquid | Assumed highest post emergence/foliar application because runoff/erosion is expected to be higher when application is not incorporated (i.e., preplant and at plant applications which require incorporation); 150 ft buffer |
| 4 | Foliar; broadcast | 13 days after emergence | Aerial | 1.5 | liquid |
| 5 | Foliar; broadcast | 23 days after emergence | Aerial | 1.5 | liquid |
| Total |  |  |  | 8.1 |  | Maximum Yearly Rate Permitted |

## Cotton

Chlorpyrifos\_cotton – HUCs 2-3, 5-8, 10-16, 18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At Plant; seed treatment | 7 days before emergence | Ground, incorporated  | 2.2 | Liquid (granular seed) | Apply preplant, assuming planting occurs 7 days before emergence; planting depth is not specified on the label assumed 0.5 inch (1.27 cm) |
| 2 | Foliar | 3 days post emergence | Aerial | 1.0 | liquid | Minimum retreatment interval for at plant is 10 days. |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_cottonallfoliar – HUCs 2-3, 5-8, 10-16, 18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 2 | Foliar | 10 days after application 1 | Aerial | 1.0 | liquid |  |
| 3 | Foliar | 20 days after application 1 | Aerial | 1.0 | liquid | 14 day PHI |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

## Developed

### Commercial/Institutional/Industrial Premises/Equipment

Chlorpyrifos\_commercial - All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Soil broadcast | 1/1 | Ground | 1.1 | liquid |  |
| 2-12 | Soil broadcast | 7 days after previous application | Ground | 1.1 | liquid | The number of applications per year is not specified so 1 application per month is assumed.  |
| Total |  |  |  | 13.2 |  |  |

### Trash Storage Areas

### Commercial/Institutional/Industrial Premises/Equipment

Chlorpyrifos\_trash and chlorpyrifos\_trash\_1 - All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1-12 | Direct spray | First day of each month | Ground | 0.15 | liquid | Maximum labeled rate 4.9 lb a.i./A times adjusted percent area treated of 0.03 or 3%. |
| Total |  |  |  | 58.8 |  |  |

### Wood Treatment

Chlorpyrifos\_wood\_1 - All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Direct spray | 1st day of wettest month | Ground | 1.2 | liquid | 16.65 lb a.i./ 10,000 ft2 wood application over Impervious scenario (calculations provided in Section 3). Post processed results for impervious and developed scenarios to generate aggregated EECs. |
| Total |  |  |  | 1.2 |  |  |

Chlorpyrifos\_wood - All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Direct spray | 1st day of wettest month | Ground | 15.5 | liquid | 16.65 lb a.i./ 10,000 ft2 wood application over developed scenario (calculations provided in Section 3). Post processed results for impervious and developed scenarios to generate aggregated EECs. |
| Total |  |  |  | 15.5 |  |  |

### Crack and Crevice/Void/General Outdoor

The application rate provided on the label(s) is given as a dilution factor (0.0424 lb/gal). In order to achieve an application rate equal to the soil broadcast application rate 26 gallons per acre would need to be applied (that is equivalent to more than 5 refills of a 5 gallon backpack sprayer). Therefore, the building scenarios is used as a representative application scenario for applications that fall into this category of crack and crevice, void and general outdoor applications.

### Golf Course Turf

Chlorpyrifos\_golfcourse – All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month HUC specific | Ground | 1.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Ground | 1.0 | liquid |  |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

### Mosquito Control

Chlorpyrifos\_mosquito – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Broadcast | 1st day of wettest month that falls within reasonable application window HUC specific | ULV | 0.01 | liquid |  |
| 2-26 | Broadcast | 1 day after 1st application | ULV | 0.01 | liquid |  |
| Total |  |  |  | 0.26 |  | Maximum Yearly Rate Permitted |

### Nonagricultural Outdoor Buildings (foundation and walls)

Chlorpyrifos\_buildings and Chlorpyrifos\_buildings1 – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1-12 | Building perimeter | 1st day of wettest month | Ground | 1.0 | liquid | The number of applications per year is not specified, so assume 1 application per month. Post processed impervious and developed scenario results to generate aggregated EECs. |
| Total |  |  |  | 12.0 |  |  |

### Nonagricultural Outdoor Buildings (perimeter)

Chlorpyrifos\_buildings and Chlorpyrifos\_buildings1 – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1-12 | Building perimeter | 1st day of wettest month | Ground | 0.13 | liquid | The number of applications per year is not specified, so assume 1 application per month. Maximum labeled rate 1 lb a.i./A times adjusted percent area treated of 0.13 or 13%. |
| Total |  |  |  | 1.56 |  |  |

### Right-of-way

Chlorpyrifos\_rightofway – All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | When needed | 1st day of wettest month HUC specific | Ground | 1.0 | liquid | Low pressure wand |
| 2 | When needed | 7 days after 1st application | Ground | 1.0 | liquid | Low pressure wand |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

### Utility

Chlorpyrifos\_utility – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Apply as needed | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.0 | Granular |  |
| Total |  |  |  | 1.0 |  | Maximum Yearly Rate Permitted |

### Wide Area Use

Chlorpyrifos\_widearea – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1-12 | Broadcast | 1st day of month  | Ground | 1.0 | liquid | Maximum applications not specified, so model one application per month |
| Total |  |  |  | 12.0 |  | Maximum Yearly Rate Permitted |

## No Specified Land Cover

### Nursery

#### Conifers

Chlorpyrifos\_conifers – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Ground | 1.0 | liquid |  |
| 3 | Foliar | 14 days after 1st application | Ground | 1.0 | liquid | 7 day PHI |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

### Fruit and Nut Trees

Chlopryifos \_fruit\_nut1 – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 4.0 | liquid |  |
| 2 | Foliar, trunk drench | 8 days after 1st application | Ground | 2.0 | liquid | 14 day PHI |
| Total |  |  |  | 6.0 |  | Maximum Yearly Rate Permitted |

### Hybrid Cottonwood/Poplar Plantations

Chlorpyrifos\_cottonwood2 – HUC 17

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 2.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Aerial | 2.0 |  |  |
| 3 | Foliar | 14 days after 1st application | Aerial | 2.0 |  |  |
| Total |  |  |  | 6.0 |  | Maximum Yearly Rate Permitted |

## Orchards & Vineyards

### Almonds

Chlorpyrifos\_almonds – HUC 5, 6, 13, 14, 15, 16, 17, 18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant, orchard floor | 1/1 | Ground | 4.0 | liquid | only one dormant application in CA |
| 2 | Foliar | 1/16 (emergence date) | Aerial | 2.0 | liquid |  |
| 3 | Foliar | 1/26 | Aerial | 2.0 | liquid |  |
| 4 | Foliar | 7/1 | Aerial | 2.0 | liquid | Peach Twig Borer (late June-Early July; CA crop Profile) |
| 5 | Foliar, trunk drench | 8/30 | Ground | 2.5 | Liquid | Ants (survey April-May; treat before harvest as most lost occurs at harvest) 14 days before harvest |
| Total |  |  |  | 14.5 |  | Maximum Yearly Rate Permitted |

### Apples

Chlorpyrifos\_apple – HUCs 1-6

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 2.0 | liquid |  |
| 2 | Foliar, trunk drench | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.5 | Liquid |  |
| Total |  |  |  | 3.5 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_apple – HUCs 7-20

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 2.0 | liquid |  |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

### Cherries

#### Tart Cherries

Chlorpyrifos\_tartcherry - HUC 1-7, 9-11, 13-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 2.0 | liquid |  |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Airblast | 4.0 | liquid |  |
| 3 | Foliar | 10 days after 2nd application | Airblast | 4.0 | liquid |  |
| 4 | Foliar | 20 days after 2nd application | Airblast | 2.0 | liquid | 14 day PHI |
| 5 | Foliar, trunk drench | 1st day of wettest month after harvest | Ground | 2.5 | Liquid |  |
| Total |  |  |  | 14.5 |  | Maximum Yearly Rate Permitted |

### Sweet Cherries

Chlorpyrifos\_sweetcherry, HUC 1-7, 9-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 2.0 | liquid |  |
| 2 | Foliar, trunk drench | 1st day of wettest month after harvest | Ground | 2.5 | Liquid |  |
| Total |  |  |  | 4.5 |  | Maximum Yearly Rate Permitted |

### Citrus

Chlorpyrifos\_citrus – HUC 15, 18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Airblast | 6.0 | liquid |  |
| 2 | Foliar | 30 days after 1st application | Airblast | 1.5 | liquid |  |
| 3 | Foliar, orchard floor | 10 days after 2nd application | Ground | 1.0 | liquid |  |
| 4 | Foliar, orchard floor | 20 days after 2nd application | Ground | 1.0 | liquid |  |
| 5 | Foliar, orchard floor | 30 days after 2nd application | Ground | 1.0 | liquid | 28 day PHI |
| Total |  |  |  | 10.5 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_citrus – HUC 3, 8, 11-13, 16-17, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Airblast | 4.0 | liquid |  |
| 2 | Foliar | 30 days after 1st application | Airblast | 3.5 | liquid |  |
| 3 | Foliar, orchard floor | 10 days after 2nd application | Ground | 1.0 | liquid |  |
| 4 | Foliar, orchard floor | 20 days after 2nd application | Ground | 1.0 | liquid |  |
| 5 | Foliar, orchard floor | 30 days after 2nd application | Ground | 1.0 | liquid | 28 day PHI |
| Total |  |  |  | 10.5 |  | Maximum Yearly Rate Permitted |

### Figs

Chlorpyrifos\_figs, HUC 18 only

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant, soil app | 45 days (-45) before emergence | Ground | 2.0 | liquid | 45 days before emergence (1/16 ) |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

### Filberts/Hazelnuts

Chlorpyrifos \_filberts –HUCs 1-7, 10-11, 16-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Aerial | 2.0 | liquid |  |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 2.0 | liquid |  |
| 3 | Foliar | 10 days after 2nd application | Aerial | 2.0 | liquid |  |
| 4 | Foliar | 20 days after 2nd application | Aerial | 2.0 | liquid | 14 day PHI |
| Total |  |  |  | 8.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos \_fruit\_nut2 – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 4.0 | liquid |  |
| 2 | Foliar, trunk drench | 8 days after 1st application | Ground | 2.0 | liquid | 14 day PHI |
| Total |  |  |  | 6.0 |  | Maximum Yearly Rate Permitted |

### Grapes

Chlorpyrifos\_grapes – HUC 1-13

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.25 | liquid | For HUC 2 12b 2nd westest month was used due to PHI. |
| Total |  |  |  | 2.25 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_grapes1 – HUC 10, 11, 13

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.0 | liquid | For HUC 2 13 2nd westest month was used due to PHI. |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.25 | liquid |  |
| Total |  |  |  | 4.25 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_grapes2 – HUC 14, 16, 17, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.25 | liquid |  |
| Total |  |  |  | 2.25 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_grapes3 – HUC 18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.0 | liquid |  |
| 2 | Foliar | 3 days after 1st application | Ground | 1.0 |  |  |
| 3 | Foliar | 6 days after 1st application | Ground | 1.0 |  |  |
| 4 | Foliar | 7 days after harvest | Ground | 2.0 | liquid | 35 day PHI |
| Total |  |  |  | 5.0 |  | Maximum Yearly Rate Permitted |

### Nectarine

Chlorpyrfios\_nectarine – HUC 1-8, 10-11, 13-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 3.0 | liquid |  |
| 2 | Preplant foliar | 8 days (-8) before emergence | Ground | 2.5 | liquid | Handgun or low pressure |
| Total |  |  |  | 5.5 |  | Maximum Yearly Rate Permitted |

### Peach

Chlorpyrifos\_peach - HUCs 1-2, 4-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 3.0 | liquid |  |
| 2 | Preplant foliar | 8 days before emergence | Airblast | 2.5 | liquid | Apply preplant, assuming planting occurs 7 days before emergence |
| Total |  |  |  | 5.5 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_peach - HUC 3

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 3.0 | liquid |  |
| 2 | Preplant foliar | 8 days before emergence | Airblast | 2.5 | liquid | Apply preplant, assuming planting occurs 7 days before emergence |
| 3 | Postharvest | 7 days after harvest | Airblast | 2.5 | liquid |  |
| Total |  |  |  | 8.0 |  | Maximum Yearly Rate Permitted |

### Pear

Chlorpyrifos\_pear - HUCs 17, 18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 2.0 | liquid |  |
| 2 | Postharvest | 7 days after harvest | Airblast | 2.0 | liquid |  |
| Total |  |  |  | 4.0 |  | Maximum Yearly Rate Permitted |

### Plum/Prunes

Chlorpyrifos\_plumprune – HUCs 2-18, 20, 21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 2.0 | liquid |  |
| 2 | Foliar, trunk drench | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.5 | liquid |  |
| Total |  |  |  | 4.5 |  | Maximum Yearly Rate Permitted |

### Pecans

Chlorpyrifos\_pecans – 2-8, 10-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month before emergence or after harvest | Airblast | 2.0 | liquid |  |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Airblast | 4.3 | liquid |  |
| 3 | Foliar | 10 days after 2nd application | Airblast | 2.0 | liquid |  |
| 4 | Foliar | 20 days after 2nd application | Ground | 4.3 | Liquid | Application to orchard floor14 day PHI |
| Total |  |  |  | 12.6 |  | Maximum Yearly Rate Permitted |

### Pineapple

Chlorpyrifos\_pineapple – HUC 20

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Postplant | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.0 | liquid |  |
| 2 | Postplant | 30 days after 1st application | Ground | 2.0 | liquid |  |
| 3 | Postplant | 60 days after 1st application | Ground | 2.0 | liquid |  |
| Total |  |  |  | 6.0 |  | Maximum Yearly Rate Permitted |

### Seed Orchard Trees

Chlopryrifos\_seedtree – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Ground | 1.0 | liquid |  |
| 3 | Foliar | 14 days after 1st application | Ground | 1.0 | liquid |  |
| 4 | Foliar | 21 days after 1st application | Airblast | 2.5 | liquid | 30 day PHI |
| 5 | Foliar, stump | 7 days after harvest | Ground | 0.3 | liquid | Low pressure sprayer |
| Total |  |  |  | 5.8 |  | Maximum Yearly Rate Permitted |

### Walnut

Chlopryrifos\_walnut – 1-7, 10-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Dormant | 1st day of wettest month that falls before emergence or after harvest | Aerial | 2.0 | liquid |  |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 2.0 | liquid |  |
| 3 | Foliar | 10 days after 2nd application | Aerial | 2.0 | liquid |  |
| 4 | Foliar, orchard floor | 20 days after 2nd application | Ground | 4.0 | liquid | 14 day PHI |
| Total |  |  |  | 10.0 |  | Maximum Yearly Rate Permitted |

## Other Crops

### Clover

Clover Grown for Seed

Chlorpyrifos\_clover – HUC 17 only

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days before emergent | Ground | 1.9 | liquid | Apply preplant, assuming planting occurs 7 days before emergence |
| Total |  |  |  | 1.9 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_clover1 – HUC 17 only

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | Application occurs 1st day of wettest month | Aerial | 1.9 | liquid |  |
| Total |  |  |  | 1.9 |  | Maximum Yearly Rate Permitted |

## Other Grains

### Sorghum

Chlorpyrifos\_sorghum – All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 17 days before emergence | Ground | 1.5 | granular | Apply preplant, assuming planting occurs 7 days before emergence In furrow drench10 day RTI |
| 2 | At Plant | 7 days before emergence | Ground | 0.01 | liquid | Apply at plant, assuming planting occurs 7 days before emergence  |
| 3 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 4 | Foliar | 10 days after 3rd application | Aerial | 0.5 | liquid | 30 day PHI |
| Total |  |  |  | 3.01 |  | Maximum Yearly Rate Permitted |

### Triticale

Chlorpyrifos\_triticale – HUC 1-14, 16-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant, seed treatment | 7 days before emergence | Ground | 0.003 | liquid | Apply at plant, assuming planting occurs 7 days before emergence; assumes planting depth of 1 inch |
| Total |  |  |  | 0.003 |  | Maximum Yearly Rate Permitted |

## Other Row Crops

### Beets

#### Beets Grown For Seed

Chlorpyrifos\_beets – HUC 17, based on app rate allowed in Idaho (application are only permitted in Oregon and Idaho)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant, soil incorporated band  | 7 days before emergence | Ground | 0.9 | liquid | Assume planting occurs 7 days prior to emergence and product is incorporated to 2 inches (5.08 cm) |
| 2 | preplant (fall) | 180 days post emergence | Ground | 1.9 |  |  |
| Total |  |  |  | 2.8 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_beets – HUC 17, based on app rate allowed in OR. Apps only in OR and ID

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant, soil incorporated band | 7 days before emergence | Ground | 1.9 | liquid | Assume planting occurs 7 days prior to emergence |
| Total |  |  |  | 1.9 |  | Maximum Yearly Rate Permitted |

### Peanut

Chlopryrifos\_peanut – HUCs 2-3, 6, 8, 11-13, 18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant  | 8 days before emergence | Aerial | 2.0 | liquid | Apply preplant, assuming planting occurs 7 days before emergence |
| 2 | At pegging | 23 days post emergence | Aerial | 2.0 | liquid | Assume pegging occurs 23a days after emergence (BEAD)  |
| Total |  |  |  | 4.0 |  | Maximum Yearly Rate Permitted |
| Peanut plants start flowering 25-40 days after planting; peg is visible about a week after fertilization.http://www.clemson.edu/extension/hgic/plants/vegetables/crops/hgic1315.html |

### Sugar Beet

Chlorpyrifos\_sugarbeet – HUCs 1, 2, 4, 7, 9, 10, 11, 13-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Postemergence, Broadcast | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 2 | Postemergence, Broadcast | 10 days after 1st application | Aerial | 1.0 | liquid |  |
| 3 | Postemergence, Broadcast | 20 days after 1st application | Aerial | 1.0 | liquid | 30 day PHI |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_sugarbeet – HUCs 1, 2, 4, 7, 9, 10, 11, 13-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Postemergence, Broadcast | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.0 | granular |  |
| 2 | Postemergence, Broadcast | 10 days after 1st application | Aerial | 1.0 | liquid |  |
| 3 | Postemergence, Broadcast | 20 days after 1st application | Aerial | 1.0 | liquid | 30 day PHI |
| Total |  |  |  | 4.0 |  | Maximum Yearly Rate Permitted |

### Sunflower

Chlorpyrifos\_sunflower – HUC 1-12, 14, 17-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At Plant | 7 days prior to emergence | Aerial | 2.0 | liquid | Apply at plant, assuming planting occurs 7 days before emergence  |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.5 | liquid |  |
| 3 | Foliar | 10 days after 2nd application | Aerial | 1.5 | liquid | 42 day PHI |
| Total |  |  |  | 5.0 |  | Maximum Yearly Rate Permitted |

### Tobacco

Chlorpyrifos\_tobacco – HUC 1-8

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days before emergence | Aerial | 2.0 | liquid | Apply preplant, assuming planting occurs 7 days before emergence  |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

## Grassland

### Ornamental Lawns and Turf, Sod

Chlorpyrifos\_sod – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 3.76 | liquid |  |
| 2 | Foliar | 3 days after 1st application | Ground | 3.76 | liquid |  |
| Total |  |  |  | 7.52 |  | Maximum Yearly Rate Permitted |

## Other Trees

### Christmas Tree Plantations

Chlorpyrifos\_christmas\_tree – HUC 1-8, 10-12, 15-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Airblast | 1.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Airblast | 1.0 | liquid |  |
| 3 | Foliar | 14 days after 1st application | Airblast | 1.0 | liquid |  |
| 4 | Foliar, trunk drench | 12/1 | Ground | 2.5 | Liquid | Postharvest |
| Total |  |  |  | 5.5 |  | Maximum Yearly Rate Permitted |

### Conifers, Plantation

Chlorpyrifos\_conifer1 – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Ground | 1.0 | liquid |  |
| 3 | Foliar | 14 days after 1st application | Ground | 1.0 | liquid | 7 day PHI |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

### Forest

#### Forest Plantings

Chlopyrifos\_forestplantings – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Ground | 1.0 | liquid |  |
| 3 | Foliar | 14 days after 1st application | Ground | 1.0 | liquid |  |
| 4 | Foliar | 21 days after 1st application | Ground | 1.0 | liquid |  |
| 5 | Foliar | 28 days after 1st application | Ground | 1.0 | liquid |  |
| 6 | Foliar | 35 days after 1st application | Ground | 1.0 | liquid |  |
| Total |  |  |  | 6.0 |  | Maximum Yearly Rate Permitted |

### Forest Trees

Chlorpyrifos\_foresttrees –all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar, stump | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 3.6 | liquid |  |
| Total |  |  |  | 3.6 |  | Maximum Yearly Rate Permitted |

### Hybrid Cottonwood/Poplar Plantations

Chlorpyrifos\_cottonwood1 – HUC 17

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 2.0 | liquid |  |
| 2 | Foliar | 7 days after 1st application | Aerial | 2.0 |  |  |
| 3 | Foliar | 14 days after 1st application | Aerial | 2.0 |  |  |
| Total |  |  |  | 6.0 |  | Maximum Yearly Rate Permitted |

## Pasture-Hay

### Alfalfa

Chlorpyrifos\_alfalfa1 – MO (HUC 7, 8, 10, 11)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant | 10 days before emergence | Ground | 1.0 | liquid | 1 application at plant, assumed to be 10 days prior to emergence |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 3 | Foliar | 10 days after 2nd app | Aerial | 1.0 | liquid |  |
| 4 | Foliar | 20 days after 2nd app | Aerial | 1.0 | liquid |  |
| 5 | Foliar | 30 days after 2nd app | Aerial | 1.0 | Liquid | 21 day Preharvest interval |
| Total |  |  |  | 5.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_alfalfa – All HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 2 | Foliar | 10 days after 1st app | Aerial | 1.0 | liquid |  |
| 3 | Foliar | 20 days after 1st app | Aerial | 1.0 | liquid |  |
| 4 | Foliar | 30 days after 2nd app | Aerial | 1.0 | Liquid | 21 day PHI |
| Total |  |  |  | 4.0 |  | Maximum Yearly Rate Permitted |

### Grass Forage/Fodder/Hay

Chlorpyrifos\_grass\_hay– HUCs 15-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 2 | Foliar | 3 days after 1st application | Aerial | 1.0 |  |  |
| 3 | Foliar | 6 days after 1st application | Aerial | 1.0 |  |  |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

### Soybean

Chlorpyrifos\_soybean - HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At Plant, soil band | 7 days before emergence | Ground | 2.2 | solid | Apply at plant, assuming planting occurs 7 days before emergence  |
| 2 | Foliar, broadcast | 3 post emergence | Aerial | 0.8 | liquid | 10 day RTI |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_soybean\_allfoliar

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 2 | Foliar | 15th of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 3 | Foliar | 29th of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid | 28 day PHI |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |
| For HUC 2 Region 4 the wettest month within the reasonable application window is august; however, applications would extend beyond the PHI so the month was adjust back 1 to july the 2nd wettest month within the application windowFor HUC 2 Region 17a the wettest month within a reasonable application window is May. This the same month as emergence. First application is assumed to occur on the emergence date. |

## Vegetable & Ground Fruit

### Asparagus

Chlorpyrifos\_asparagus – All HUCs except 21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar, preharvest | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 2 | Foliar, postharvest | 1st day of wettest month after harvest | Aerial | 1.0 | liquid |  |
| 3 | Foliar, postharvest | 10 days after 2nd application | Aerial | 1.0 | liquid |  |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_asparagus1 –HUCs 10-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar, postharvest | 1st day of wettest month after harvest | Ground  | 1.5 | granular |  |
| 2 | Foliar, postharvest | 10 days after 2nd application | Ground  | 1.5 | granular |  |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

### Beans

Chlorpyrifos­\_beans1 – HUC 17

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Seed treatment | 7 days before emergence | Ground, seed treatment (granular) | 0.348 | liquid | Assume planting occurs 7 days prior to emergence.Planting depth is not specified on the label assumed 1 inch min incorporation depth |
| Total |  |  |  | 0.348 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos­\_beans – all HUCs except 21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Seed treatment | 7 days before emergence | Ground, seed treatment (granular) | 0.272 | liquid | Assume planting occurs 7 days prior to emergence.Planting depth is not specified on the label assumed 1 inch (1.27 cm) min incorporation depth |
| Total |  |  |  | 0.272 |  | Maximum Yearly Rate Permitted |

### Carrot

#### Carrot Grown for Seed

Chlorpyrifos\_carrot – HUC 17

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar, prebloom | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 0.94 | liquid |  |
| Total |  |  |  | 0.94 |  | Maximum Yearly Rate Permitted |

### Cole Crops Excluding Cauliflower and Brussels Sprouts

Chlopyrifos\_colecrops – all HUCs except 21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days before emergence | Ground | 2.0 | liquid | Apply preplant, assuming planting occurs 7 days before emergence |
| 2 | Postplant | 2 post emergence | Ground | 2.0 | liquid | 10 day RTI |
| 3 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 4 | Foliar | 10 days after 3rd application | Aerial | 1.0 | liquid |  |
| 5 | Foliar | 20 days after 3rd application | Aerial | 1.0 | liquid |  |
| 6 | Foliar | 30 days after 3rd application | Aerial | 1.0 | liquid | 21 day PHI |
| Total |  |  |  | 8.0 |  | Maximum Yearly Rate Permitted |

### Brussel Sprouts, Cauliflower

Chlorpyrifos\_ cauliflower – all HUCs except 21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Postplant | 6 days before emergence | Ground | 2.25 | liquid | Assume planting occurs 7 days before emergence |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 3 | Foliar | 10 days after 2nd application | Aerial | 1.0 | liquid |  |
| 4 | Foliar | 20 days after 2nd application | Aerial | 1.0 | liquid | 21 day PHI |
| Total |  |  |  | 5.25 |  | Maximum Yearly Rate Permitted |

### Cranberry

Chlorpyrifos\_cranberry – 1-2, 4, 7, 17

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.5 | liquid |  |
| 2 | Foliar | 10 days after 1st application | Aerial | 1.5 | liquid |  |
| Total |  |  |  | 3.0 |  | Maximum Yearly Rate Permitted |

### Cucumber

Chlorpyrifos\_cucumber – 1-14, 16-18, 20

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Seed treatment | 7 days before emergence | Ground, seed treatment (granular) | 0.4 | liquid | Apply at plant, assuming planting occurs 7 days before emergence; assumed 2 inch minimum planting depth |
| Total |  |  |  | 0.4 |  | Maximum Yearly Rate Permitted |

### Ginseng

Chlorpyrifos\_ginseng– HUCs 4, 7

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days before emergence | Ground | 2.0 | liquid | Apply preplant, assuming planting occurs 7 days before emergenceIncorporate to 4” |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

### Legume Vegetables

Chlorpyrifos\_legume – All HUCs except 21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant | 7 days before emergence | Aerial | 1.0 | liquid | Apply at plant, assuming planting occurs 7 days before emergence |
| Total |  |  |  | 1.0 |  | Maximum Yearly Rate Permitted |

### Mint/Spearmint/Peppermint

Chlorpyrifos\_mint – HUC 1, 4-5, 7, 9-10, 17

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar, preplant | 8 days before emergence | Ground | 2.0 | liquid |  |
| 2 | Foliar, postemergence | 2 days post emergence | Ground | 2.0 | liquid | RTI of 10 days |
| Total |  |  |  | 4.0 |  | Maximum Yearly Rate Permitted |

### Onions

Chlorpyrifos\_onion – all HUCs except 21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant | 7 days before emergence | Ground | 1.0 | liquid | Apply at plant, assuming planting occurs 7 days before emergence |
| 2 | Postplant | 2 post emergence | Ground | 1.0 | liquid | Retreatment interval of 10 days2 inch (5.08 cm) incorporation |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_onion\_bo – HUC 3

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Postplant (bulb onion) | 6 days before emergence | Ground | 1.0 | liquid | 2 inch (5.08 cm) incorporation |
| Total |  |  |  | 1.0 |  |  |

### Peas

#### Seed treatment

Chlorpyrifos\_peaseed – All HUcs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant, seed treatment | 7 days before emergence | Ground, seed treatment (graunular) | 0.30 | liquid | Apply at plant, assuming planting occurs 7 days before emergence; assumed 1 inch minimum planting depth |
| Total |  |  |  | 0.30 |  | Maximum Yearly Rate Permitted |

### Pepper

Chlorpyrifos\_pepper – HUC 3

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 1.0 | liquid |  |
| 2 | Foliar | 10 days after 1st application | Ground | 1.0 | liquid |  |
| 3 | Foliar | 20 days after 1st application | Ground | 1.0 | liquid |  |
| 4 | Foliar | 30 days after 1st application | Ground | 1.0 | liquid |  |
| 5 | Foliar | 40 days after 1st application | Ground | 1.0 | liquid |  |
| 6 | Foliar | 50 days after 1st application | Ground | 1.0 | liquid |  |
| 7 | Foliar | 60 days after 1st application | Ground | 1.0 | liquid |  |
| 8 | Foliar | 70 days after 1st application | Ground | 1.0 | liquid | 7 day PHI |
| Total |  |  |  | 8.0 |  | Maximum Yearly Rate Permitted |

### Radish

Chlorpyrifos\_radish – HUC 17

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant or in furrow drench; first crop cycle | 7 days before emergence | Ground | 3.0 | liquid | Apply at plant, assuming planting occurs 7 days before emergence – no information on required incorporation is provided |
| 2 | At plant or in furrow drench; second crop cycle | 23 post emergence | Ground | 3.0 | liquid | Apply at plant, assuming planting occurs 7 days before emergence – no information on required incorporation is provided; assumes crop are harvest and replanted in 30 from previous planting. |
| 3 | At plant or in furrow drench; third crop cycle | 53 post emergence | Ground | 3.0 | liquid |
| 4 | At plant or in furrow drench; third crop cycle | 63 post emergence | Ground | 3.0 | liquid |
| 5 | Foliar | 93 post emergence | Ground | 1.0 | liquid | 30 day RTI |
| Total |  |  |  | 13.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_radish – other HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant or in furrow drench; first crop cycle | 7 days before emergence | Ground | 3.0 | liquid | Apply at plant, assuming planting occurs 7 days before emergence – no information on required incorporation is provided |
| 2 | At plant or in furrow drench; second crop cycle | 23 post emergence | Ground | 3.0 | liquid | Apply at plant, assuming planting occurs 7 days before emergence – no information on required incorporation is provided; assumes crop are harvest and replanted in 30 from previous planting. |
| 3 | At plant or in furrow drench; third crop cycle | 53 post emergence | Ground | 3.0 | liquid |
| 4 | At plant or in furrow drench; third crop cycle | 63 post emergence | Ground | 3.0 | liquid |
| Total |  |  |  | 12.0 |  | Maximum Yearly Rate Permitted |

### Pumpkin

Chlorpyrifos\_pumpkin –all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant | 7 days before emergence | Ground | 0.30 | liquid | Apply at plant, assuming planting occurs 7 days before emergence |
| Total |  |  |  | 0.30 |  | Maximum Yearly Rate Permitted |

### Rutabaga

Chlorpyrifos\_rutabaga – HUC 18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 18 days before emergence | Ground | 2.4 | liquid | 10 day RTI |
| 2 | Preplant | 8 days before emergence | Ground | 2.4 | liquid | Apply preplant, assuming planting occurs 7 days before emergence In furrow drench |
| Total |  |  |  | 4.8 |  | Maximum Yearly Rate Permitted |

Rutabaga – 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 27 days before emergence | Ground | 2.4 | liquid | Preplant, with 10 day RTI |
| 2 | Preplant | 17 days before emergence | Ground | 2.4 | liquid | Preplant, with 10 day RTI |
| 3 | At plant | 7 days before emergence | Ground | 2.4 | liquid | Apply at plant, assuming planting occurs 7 days before emergence In furrow drench |
| 4 | Postplant | 3 post emergence | Ground | 2.4 | liquid | 10 day RTIIn furrow drench |
| Total |  |  |  | 9.6 |  | Maximum Yearly Rate Permitted |

### Strawberry

Chlorpyrifos\_strawberry1 – HUC 3 (Mississippi)

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Postharvest | 7 days after harvest | Aerial | 1.0 | liquid |  |
| 2 | Postharvest | 21 days after 1st application | Aerial | 1.0 | liquid | 14 day RTI |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_strawberry – HUCs 1-7, 17-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days before emergence | Aerial | 2.0 | liquid |  |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 3 | Foliar | 10 days after 2nd application | Aerial | 1.0 | liquid | 21 day PHI |
| Total |  |  |  | 4.0 |  | Maximum Yearly Rate Permitted |

### Sweet Potato

Chlorpyrifos\_sweetpotato – HUC 1-8, 11, 12, 13, 15, 18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days before emergence | Aerial | 2.0 | liquid | Apply preplant, assuming planting occurs 7 days before emergence  |
| Total |  |  |  | 2.0 |  | Maximum Yearly Rate Permitted |

Chlorpyrifos\_sweetpotato1 – HUC 3, 6, 8

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days before emergence | Ground | 2.1 | liquid | Apply preplant, assuming planting occurs 7 days before emergence  |
| Total |  |  |  | 2.1 |  | Maximum Yearly Rate Permitted |

### Turnip

Chlorpyrifos\_turnip – HUC 1-8, 11, 15-18, 20-21

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant | 8 days prior to emergence | Ground | 2.3 | Granular | Apply preplant, assuming planting occurs 7 days before emergenceIncorporate 2 “  |
| 2 | Postplant | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.3 | Granular | Incorporate 2 “30 day PHI |
| Total |  |  |  | 4.6 |  | Maximum Yearly Rate Permitted |

## Wheat

Chlorpyrifos\_wheat – HUCs 1-18

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | At plant | 7 days before emergence | Ground | 0.003 | liquid | Apply at plant, assuming planting occurs 7 days before emergence |
| 2 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Aerial | 1.0 | liquid |  |
| 3 | Foliar | 7 days after 2nd application | Aerial | 1.0 | liquid | 14 day PHI |
| Total |  |  |  | 2.003 |  | Maximum Yearly Rate Permitted |

## Non-specified Landcover

### Nursery Stock

Chlorpyrifos\_nursery2 – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Preplant foliar | 8 days before emergence | Ground | 4.0 | liquid | Apply preplant, assuming planting occurs 7 days before emergence |
| Total |  |  |  | 4.0 |  | Maximum Yearly Rate Permitted |

### Ornamental/Shade Trees

Chlorpyrifos\_shadetrees – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar | 1st day of wettest month that falls within reasonable application window HUC specific | Ground | 2.0 | liquid |  |
| 2 | Dormant | 1st day of wettest month before emergence or after harvest | Ground | 3.0 | liquid | Applied via hand wand |
| Total |  |  |  | 5.0 |  | Maximum Yearly Rate Permitted |

### Ornamental Nonflowering Plants

Other ornamental applications including Ornamental Grasses, Sod (pg. 21) and Ornamental/Shade Trees (pg. 35) are assumed to be protective of this chlorpyrifos use. Therefore, these scenarios were used as surrogates for this use pattern.

### Ornamental Woody Shrubs

Chlorpyrifos\_shrubs – all HUCs

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Application Number | Application Timing; Type | Date | Method | Application Rate (lb a.i./A) | Formulation | Comments |
| 1 | Foliar, preharvest | 1st day of wettest month that falls after harvest | Ground | 6.0 | liquid |  |
| Total |  |  |  | 6.0 |  | Maximum Yearly Rate Permitted |

# PRZM SCENARIO EMERGENCE AND HARVEST DATES

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **HUC2** | **Corn** | **Cotton** | **Developed** | **Grassland** |
| **Emergence** | **Harvest** | **Emergence** | **Harvest** | **Emergence** | **Harvest** | **Emergence** | **Harvest** |
| 1 | 1-Jun | 4-Sep |  |  | 1-Sep | 2-Nov | 1-Jun | 30-Aug |
| 2 | 1-Oct | 16-Apr | 1-Jun | 1-Nov | 1-Sep | 2-Nov | 1-Apr | 1-Nov |
| 3 | 25-Apr | 17-Sep | 1-May | 22-Sep | 1-Sep | 2-Nov | 1-Apr | 28-Aug |
| 4 | 1-Jun | 4-Sep |  |  | 1-Sep | 2-Nov | 1-Apr | 1-Nov |
| 5 | 1-May | 25-Oct | 1-May | 22-Sep | 1-Sep | 2-Nov | 1-Jun | 30-Aug |
| 6 | 25-Apr | 17-Sep | 1-May | 22-Sep | 1-Sep | 2-Nov | 1-Apr | 28-Aug |
| 7 | 1-May | 20-Oct | 1-May | 22-Sep | 1-Sep | 2-Nov | 1-Jun | 30-Aug |
| 8 | 10-Apr | 2-Sep | 1-May | 22-Sep | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 9 | 5-May | 12-Aug |  |  | 1-Sep | 2-Nov | 1-Jun | 30-Aug |
| 10a | 10-May | 20-Oct | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Jun | 30-Aug |
| 10b | 10-May | 20-Oct | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Jun | 30-Aug |
| 11a | 25-May | 20-Oct | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 11b | 25-May | 20-Oct | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 12a | 1-Mar | 1-Jul | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 12b | 1-Mar | 1-Jul | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 13 | 16-Mar | 10-Sep | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 14 | 16-Mar | 10-Sep | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 15a | 16-Mar | 10-Sep | 1-May | 11-Nov | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 15b | 16-Mar | 10-Sep | 1-May | 11-Nov | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 16a | 16-Mar | 10-Sep | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 16b | 16-Mar | 10-Sep | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Sep | 1-Aug |
| 17a | 16-May | 10-Sep |  |  | 1-Sep | 2-Nov | 1-Sep | 1-Jul |
| 17b | 16-May | 10-Sep |  |  | 1-Sep | 2-Nov | 1-Sep | 1-Jul |
| 18a | 1-Apr | 8-Sep | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Nov | 1-May |
| 18b | 1-Apr | 8-Sep | 16-Mar | 15-Oct | 1-Sep | 2-Nov | 1-Nov | 1-May |
| 20a | 1-Oct | 16-Apr |  |  | 1-Sep | 2-Nov | 2-Jan | 15-Dec |
| 20b | 1-Oct | 16-Apr |  |  | 1-Sep | 2-Nov | 2-Jan | 15-Dec |
| 21 | 1-Oct | 16-Apr |  |  | 1-Sep | 2-Nov |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **HUC2** | **NSLandcover** | **Orchard** | **OtherGrain** | **OtherRow** |
| **Emergence** | **Harvest** | **Emergence** | **Harvest** | **Emergence** | **Harvest** | **Emergence** | **Harvest** |
| 1 | 1-Jan | 31-Dec | 1-Jun | 15-Oct | 16-Apr | 1-Nov | 1-Jun | 5-Oct |
| 2 | 1-Jan | 31-Dec | 16-Apr | 15-Oct | 16-Apr | 1-Nov | 1-May | 21-Jul |
| 3 | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 16-May | 10-Oct |
| 4 | 1-Jan | 31-Dec | 1-Jun | 15-Oct | 1-Jun | 30-Aug | 30-Apr | 15-Aug |
| 5 | 1-Jan | 31-Dec | 16-Apr | 15-Oct | 20-May | 1-Oct | 16-May | 10-Oct |
| 6 | 16-Mar | 22-Oct | 1-Apr | 25-Oct | 1-Apr | 28-Aug | 25-Apr | 17-Sep |
| 7 | 16-Mar | 22-Oct | 1-Jan | 31-Dec | 1-Jun | 30-Aug | 1-May | 20-Oct |
| 8 | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 10-Apr | 31-Jul |
| 9 | 1-Jan | 31-Dec | 1-Jun | 15-Oct | 16-May | 25-Aug | 16-May | 15-Oct |
| 10a | 16-Mar | 22-Oct | 1-Mar | 10-Nov | 20-May | 1-Oct | 10-May | 20-Oct |
| 10b | 16-Mar | 22-Oct | 1-Mar | 10-Nov | 20-May | 1-Oct | 10-May | 20-Oct |
| 11a | 16-Mar | 22-Oct | 1-Apr | 16-Nov | 16-Oct | 17-Jun | 25-May | 20-Oct |
| 11b | 16-Mar | 22-Oct | 1-Apr | 16-Nov | 16-Oct | 17-Jun | 25-May | 20-Oct |
| 12a | 1-Jan | 31-Dec | 1-Apr | 16-Nov | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 12b | 1-Jan | 31-Dec | 1-Apr | 16-Nov | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 13 | 1-Jan | 31-Dec | 1-Apr | 16-Nov | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 14 | 16-Mar | 22-Oct | 1-Apr | 16-Nov | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 15a | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 15b | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 16a | 1-Mar | 1-Nov | 1-Jan | 31-Dec | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 16b | 1-Mar | 1-Nov | 1-Jan | 31-Dec | 1-Jun | 30-Aug | 1-Mar | 1-Jul |
| 17a | 1-Jan | 31-Dec | 1-Apr | 31-Oct | 1-Sep | 1-Jul | 1-Apr | 1-Sep |
| 17b | 1-Jan | 31-Dec | 1-Apr | 31-Oct | 1-Sep | 1-Jul | 1-Apr | 1-Sep |
| 18a | 1-Mar | 1-Nov | 16-Jan | 13-Sep | 1-Jan | 15-Jun | 1-Jan | 8-Apr |
| 18b | 1-Mar | 1-Nov | 16-Jan | 13-Sep | 1-Jan | 15-Jun | 1-Jan | 8-Apr |
| 20a | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jan | 1-May |
| 20b | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jan | 31-Dec | 1-Jan | 1-May |
| 21 | 1-Jan | 31-Dec | 1-Jan | 31-Dec |  |  |  |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **HUC2** | **OtherTree** | **Soybean** | **Vegetable** | **Wheat** |
| **Emergence** | **Harvest** | **Emergence** | **Harvest** | **Emergence** | **Harvest** | **Emergence** | **Harvest** |
| 1 | 1-Jun | 15-Oct | 1-Jun | 4-Sep | 1-Jun | 5-Oct | 16-Apr | 1-Nov |
| 2 | 16-Apr | 15-Oct | 16-Apr | 1-Oct | 10-May | 10-Oct | 16-Apr | 1-Nov |
| 3 | 1-Jan | 31-Dec | 25-Apr | 17-Sep | 1-Jan | 1-May | 1-Apr | 28-Aug |
| 4 | 1-May | 21-Jul | 1-Jun | 4-Sep | 30-Apr | 15-Aug | 16-May | 5-Aug |
| 5 | 16-Apr | 15-Oct | 1-May | 25-Oct | 1-Jun | 4-Sep | 20-May | 1-Oct |
| 6 | 1-Apr | 25-Oct | 25-Apr | 17-Sep | 1-Jan | 1-May | 1-Apr | 28-Aug |
| 7 | 1-Jan | 31-Dec | 1-May | 20-Oct | 16-Jun | 2-Sep | 1-Jun | 30-Aug |
| 8 | 1-Jan | 31-Dec | 10-Apr | 2-Sep | 10-Apr | 31-Jul | 1-Jun | 30-Aug |
| 9 | 1-May | 21-Jul | 5-May | 12-Aug | 16-May | 15-Oct | 16-May | 5-Aug |
| 10a | 1-Jan | 31-Dec | 10-May | 20-Oct | 16-May | 15-Oct | 16-May | 5-Aug |
| 10b | 1-Jan | 31-Dec | 10-May | 20-Oct | 16-May | 15-Oct | 16-May | 5-Aug |
| 11a | 1-Jan | 31-Dec | 25-May | 20-Oct | 1-Feb | 7-May | 16-Oct | 17-Jun |
| 11b | 1-Jan | 31-Dec | 25-May | 20-Oct | 1-Feb | 7-May | 16-Oct | 17-Jun |
| 12a | 1-Apr | 16-Nov | 1-Mar | 1-Jul | 1-Feb | 7-May | 1-Jun | 30-Aug |
| 12b | 1-Apr | 16-Nov | 1-Mar | 1-Jul | 1-Feb | 7-May | 1-Jun | 30-Aug |
| 13 | 1-Apr | 16-Nov | 16-Mar | 10-Sep | 1-Feb | 7-May | 1-Jun | 30-Aug |
| 14 | 1-Apr | 16-Nov | 16-Mar | 10-Sep | 1-Feb | 7-May | 1-Jun | 30-Aug |
| 15a | 1-Jan | 31-Dec | 16-Mar | 10-Sep | 16-Feb | 12-May | 1-Jun | 30-Aug |
| 15b | 1-Jan | 31-Dec | 16-Mar | 10-Sep | 16-Feb | 12-May | 1-Jun | 30-Aug |
| 16a | 1-Jan | 31-Dec | 16-Mar | 10-Sep | 1-Feb | 7-May | 1-Jun | 30-Aug |
| 16b | 1-Jan | 31-Dec | 16-Mar | 10-Sep | 1-Feb | 7-May | 1-Jun | 30-Aug |
| 17a | 1-Jan | 31-Dec | 16-May | 10-Sep | 16-Jun | 2-Sep | 1-Sep | 1-Jul |
| 17b | 1-Jan | 31-Dec | 16-May | 10-Sep | 16-Jun | 2-Sep | 1-Sep | 1-Jul |
| 18a | 16-Jan | 13-Sep | 1-Apr | 8-Sep | 1-Feb | 7-May | 1-Jan | 15-Jun |
| 18b | 16-Jan | 13-Sep | 1-Apr | 8-Sep | 1-Feb | 7-May | 1-Jan | 15-Jun |
| 20a | 1-Jan | 31-Dec |  |  | 1-Feb | 15-May |  |  |
| 20b | 1-Jan | 31-Dec |  |  | 1-Feb | 15-May |  |  |
| 21 | 1-Jan | 31-Dec |  |  | 1-Feb | 15-May |  |  |

# WETTEST MONTHS (CUMULATIVE PRECIPITATION) FOR THE PRZM METROLOGICAL DATA

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| HUC2 | Wettest Month | 2nd | 3rd | 4th | 5th | 6th | 7th |
| 1 | 5 | 11 | 12 | 4 | 9 | 6 | 8 |
| 2 | 7 | 5 | 10 | 8 | 3 | 6 | 9 |
| 3 | 3 | 7 | 2 | 1 | 12 | 5 | 4 |
| 4 | 8 | 4 | 7 | 9 | 6 | 5 | 3 |
| 5 | 5 | 3 | 7 | 6 | 4 | 11 | 8 |
| 6 | 3 | 7 | 12 | 1 | 5 | 2 | 6 |
| 7 | 6 | 8 | 7 | 5 | 9 | 4 | 10 |
| 8 | 7 | 8 | 12 | 2 | 4 | 1 | 5 |
| 9 | 6 | 7 | 5 | 8 | 9 | 4 | 10 |
| 10a | 6 | 5 | 9 | 7 | 8 | 4 | 3 |
| 10b | 5 | 6 | 4 | 9 | 10 | 3 | 7 |
| 11a | 5 | 11 | 4 | 3 | 10 | 6 | 9 |
| 11b | 6 | 8 | 7 | 5 | 9 | 10 | 4 |
| 12a | 5 | 10 | 4 | 9 | 6 | 3 | 7 |
| 12b | 9 | 5 | 6 | 8 | 10 | 7 | 4 |
| 13 | 9 | 8 | 7 | 10 | 6 | 12 | 11 |
| 14 | 5 | 4 | 9 | 7 | 6 | 3 | 8 |
| 15a | 7 | 8 | 3 | 12 | 2 | 1 | 9 |
| 15b | 12 | 8 | 3 | 9 | 7 | 2 | 1 |
| 16a | 4 | 3 | 5 | 10 | 12 | 11 | 9 |
| 16b | 11 | 12 | 6 | 4 | 5 | 3 | 1 |
| 17a | 12 | 11 | 1 | 2 | 3 | 10 | 4 |
| 17b | 5 | 3 | 4 | 11 | 12 | 1 | 6 |
| 18a | 1 | 2 | 11 | 3 | 12 | 4 | 10 |
| 18b | 1 | 3 | 12 | 2 | 11 | 4 | 10 |
| 20a | 4 | 11 | 3 | 12 | 2 | 5 | 1 |
| 20b | 12 | 1 | 11 | 10 | 2 | 3 | 4 |
| 21 | 11 | 5 | 10 | 8 | 9 | 12 | 7 |