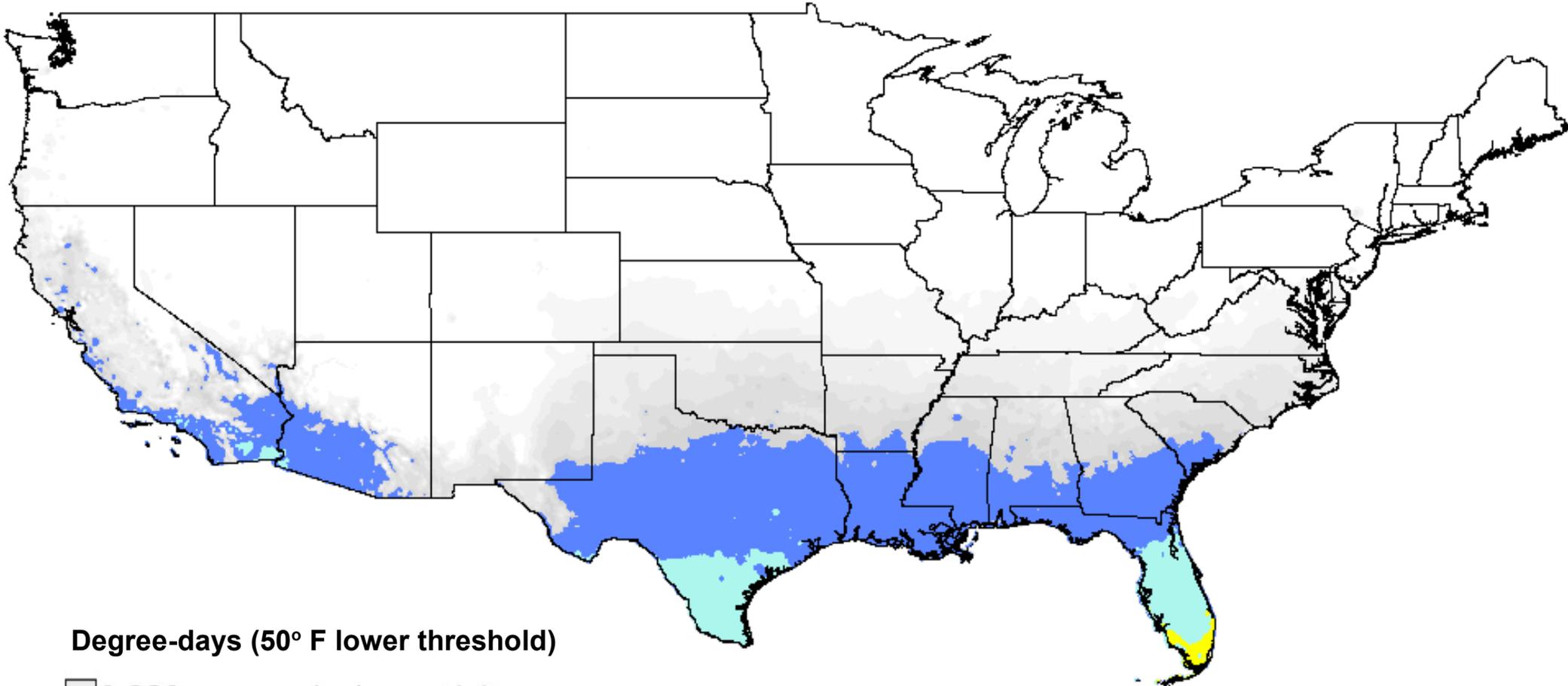


Spotted Wing Drosophila Estimated Phenology Jan 1 - Mar 1 2011

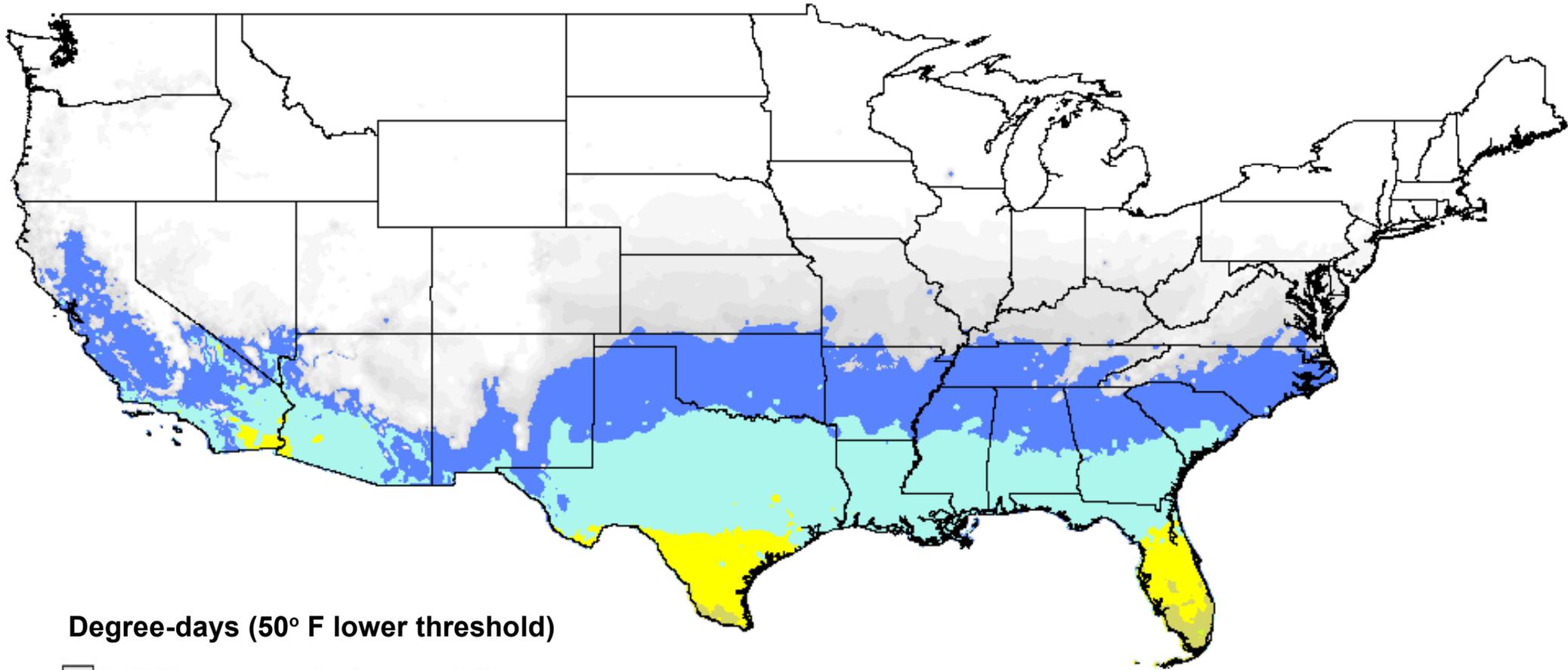


Degree-days (50° F lower threshold)

- 0-230 pre-egg-laying activity
- 231-500 egg-laying by OW females
- 501-995 1st gen. emergence
- 996-1490 2nd gen. emergence
- 1491-1985 3rd gen. emergence

Degree-day model developed at OSU
IPPC uspest.org/wea in collaboration
with Western Specialty Crops PIPE

Spotted Wing Drosophila Estimated Phenology Jan 1 - Apr 1 2011

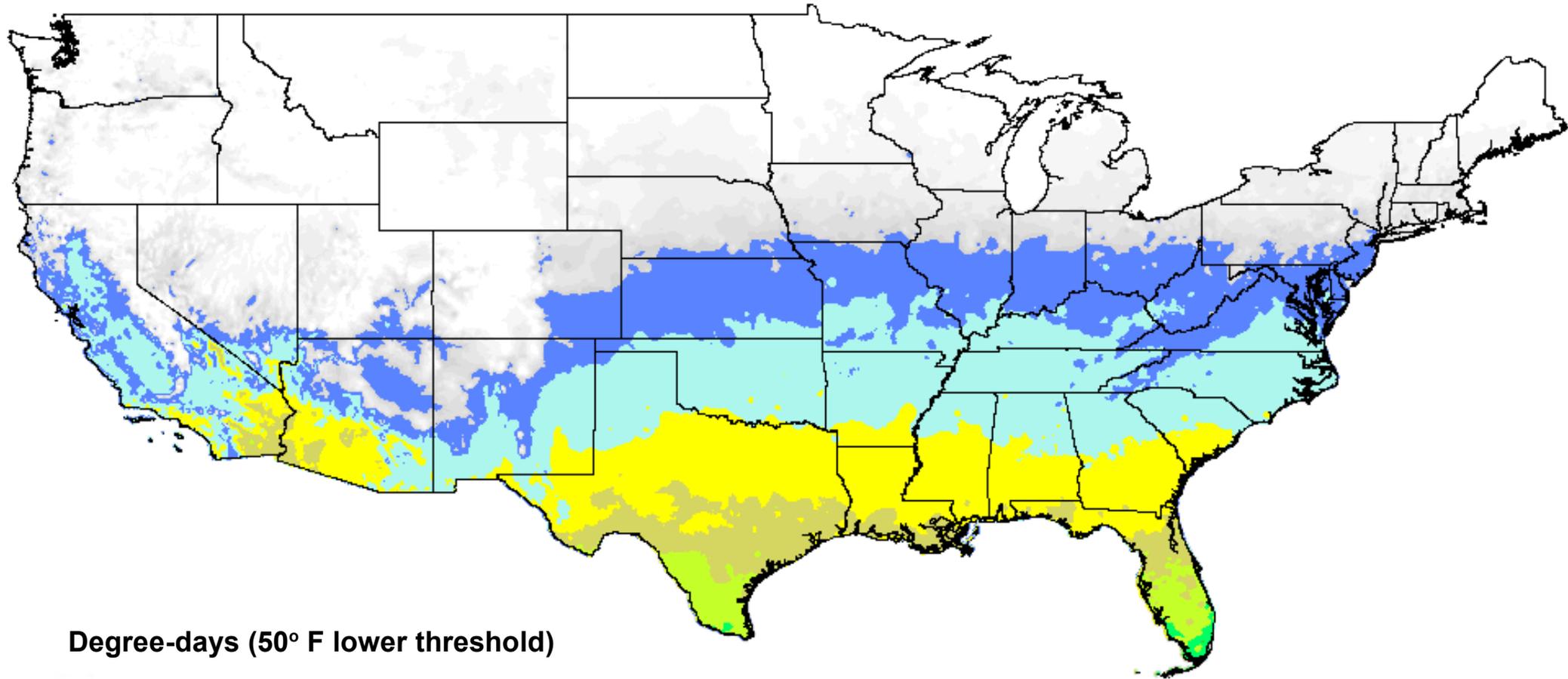


Degree-days (50° F lower threshold)

- 0-230 pre-egg-laying activity
- 231-500 egg-laying by OW females
- 501-995 1st gen. emergence
- 996-1490 2nd gen. emergence
- 1491-1985 3rd gen. emergence

Degree-day model developed at OSU
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Spotted Wing Drosophila Estimated Phenology Jan 1 - May 1 2011

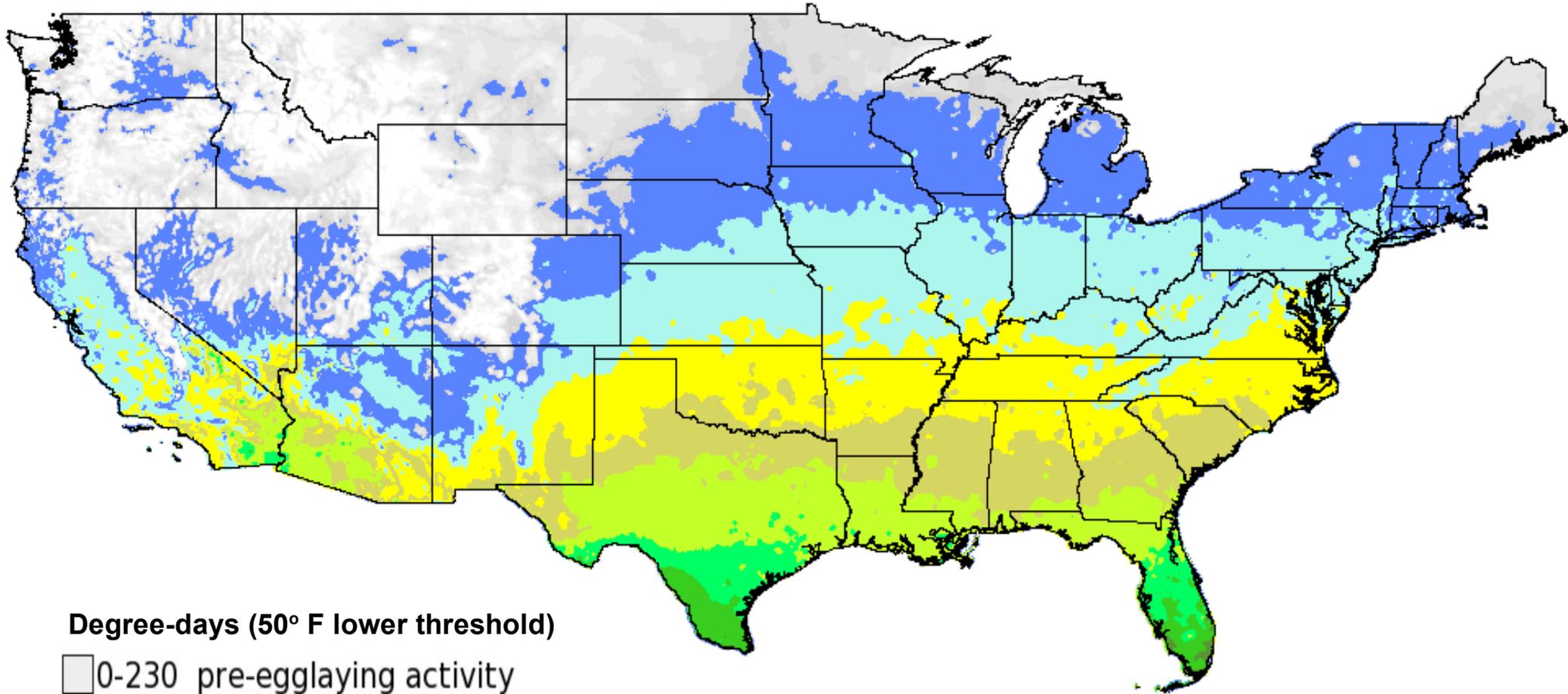


Degree-days (50° F lower threshold)

- 0-230 pre-egg laying activity
- 231-500 egg laying by OW females
- 501-995 1st gen. emergence
- 996-1490 2nd gen. emergence
- 1491-1985 3rd gen. emergence
- 1986-2480 4th gen. emergence
- 2481-2975 5th gen. emergence

**Degree-day model developed at OSU
IPPC uspest.org/wea in collaboration
with Western Specialty Crops PIPE**

Spotted Wing Drosophila Estimated Phenology Jan 1 - Jun 1 2011

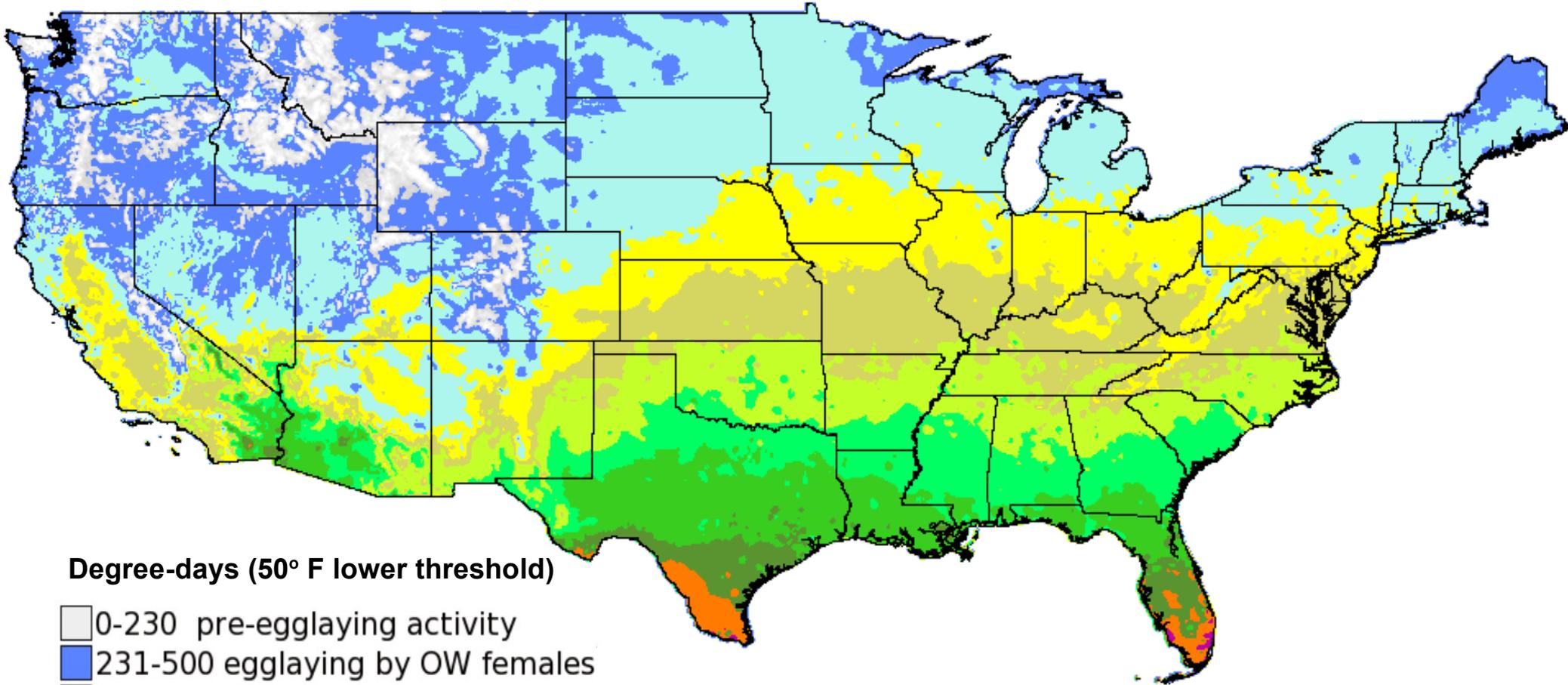


Degree-days (50° F lower threshold)

- 0-230 pre-egg-laying activity
- 231-500 egg-laying by OW females
- 501-995 1st gen. emergence
- 996-1490 2nd gen. emergence
- 1491-1985 3rd gen. emergence
- 1986-2480 4th gen. emergence
- 2481-2975 5th gen. emergence
- 2976-3470 6th gen. emergence

**Degree-day model developed at OSU
IPPC uspest.org/wea in collaboration
with Western Specialty Crops PIPE**

Spotted Wing Drosophila Estimated Phenology Jan 1 - Jul 1 2011

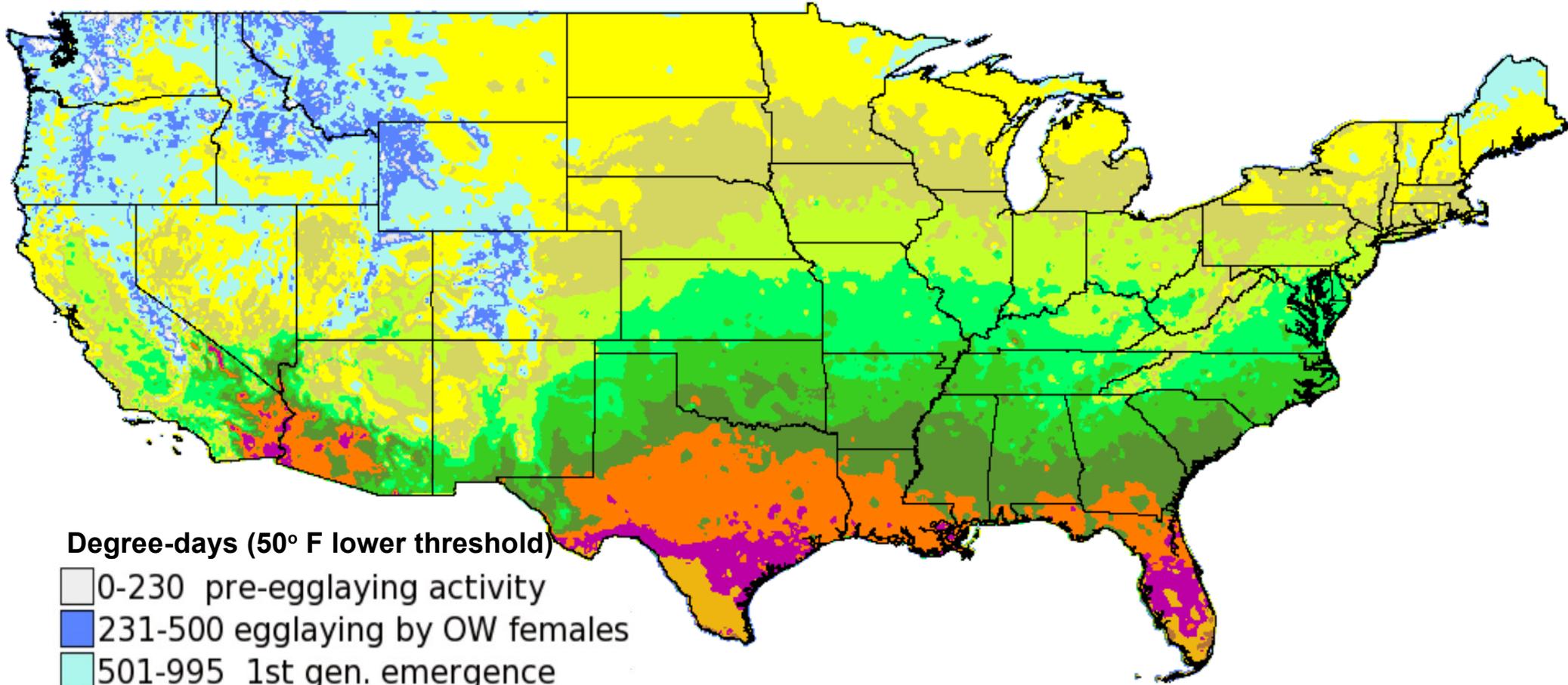


Degree-days (50° F lower threshold)

- 0-230 pre-egg laying activity
- 231-500 egg laying by OW females
- 501-995 1st gen. emergence
- 996-1490 2nd gen. emergence
- 1491-1985 3rd gen. emergence
- 1986-2480 4th gen. emergence
- 2481-2975 5th gen. emergence
- 2976-3470 6th gen. emergence
- 3471-3965 7th gen. emergence
- 3966-4460 8th gen. emergence

**Degree-day model developed at OSU
IPPC uspest.org/wea in collaboration
with Western Specialty Crops PIPE**

Spotted Wing Drosophila Estimated Phenology Jan 1 - Aug 1 2011

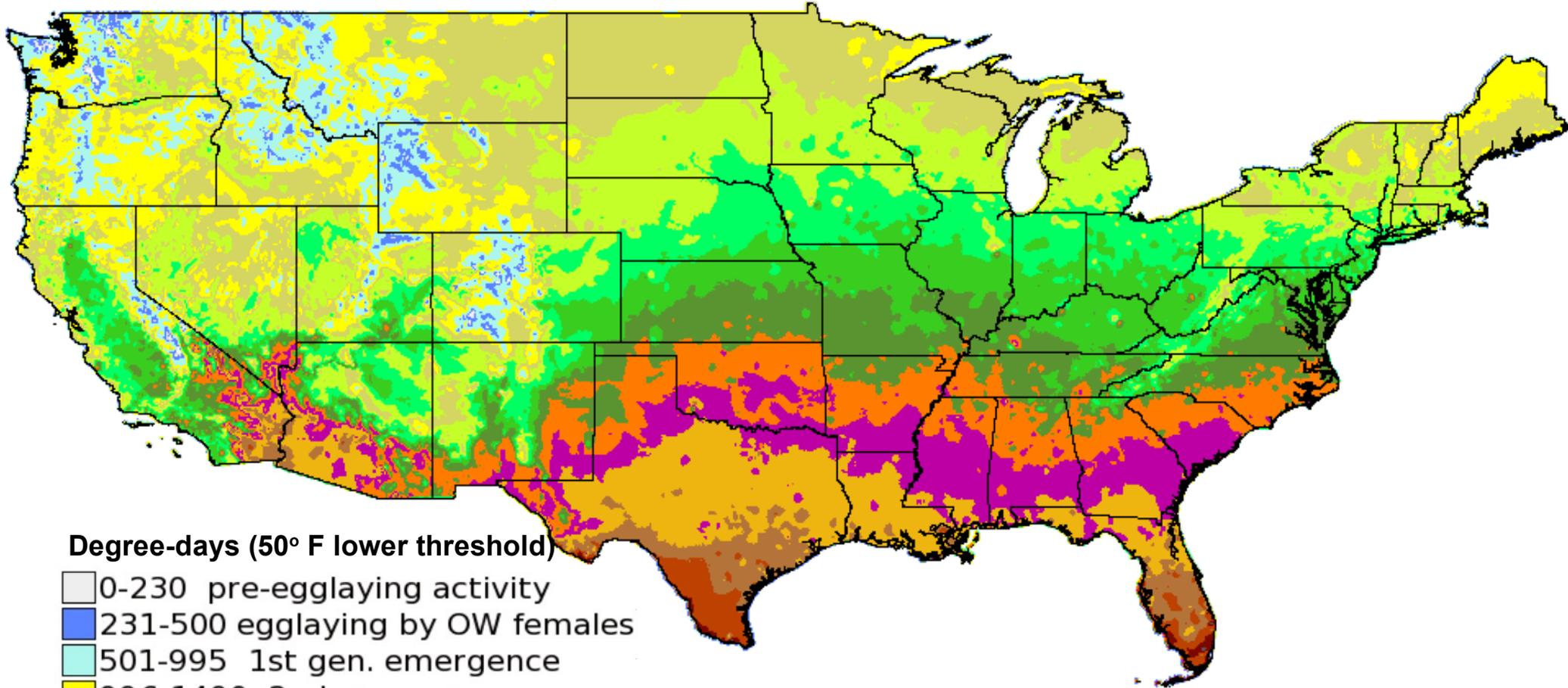


Degree-days (50° F lower threshold)

- 0-230 pre-egg laying activity
- 231-500 egg laying by OW females
- 501-995 1st gen. emergence
- 996-1490 2nd gen. emergence
- 1491-1985 3rd gen. emergence
- 1986-2480 4th gen. emergence
- 2481-2975 5th gen. emergence
- 2976-3470 6th gen. emergence
- 3471-3965 7th gen. emergence
- 3966-4460 8th gen. emergence
- 4461-4955 9th gen. emergence
- 4956-5450 10th gen. emergence

**Degree-day model developed at OSU
IPPC uspest.org/wea in collaboration
with Western Specialty Crops PIPE**

Spotted Wing Drosophila Estimated Phenology Jan 1 - Sep 1 2011

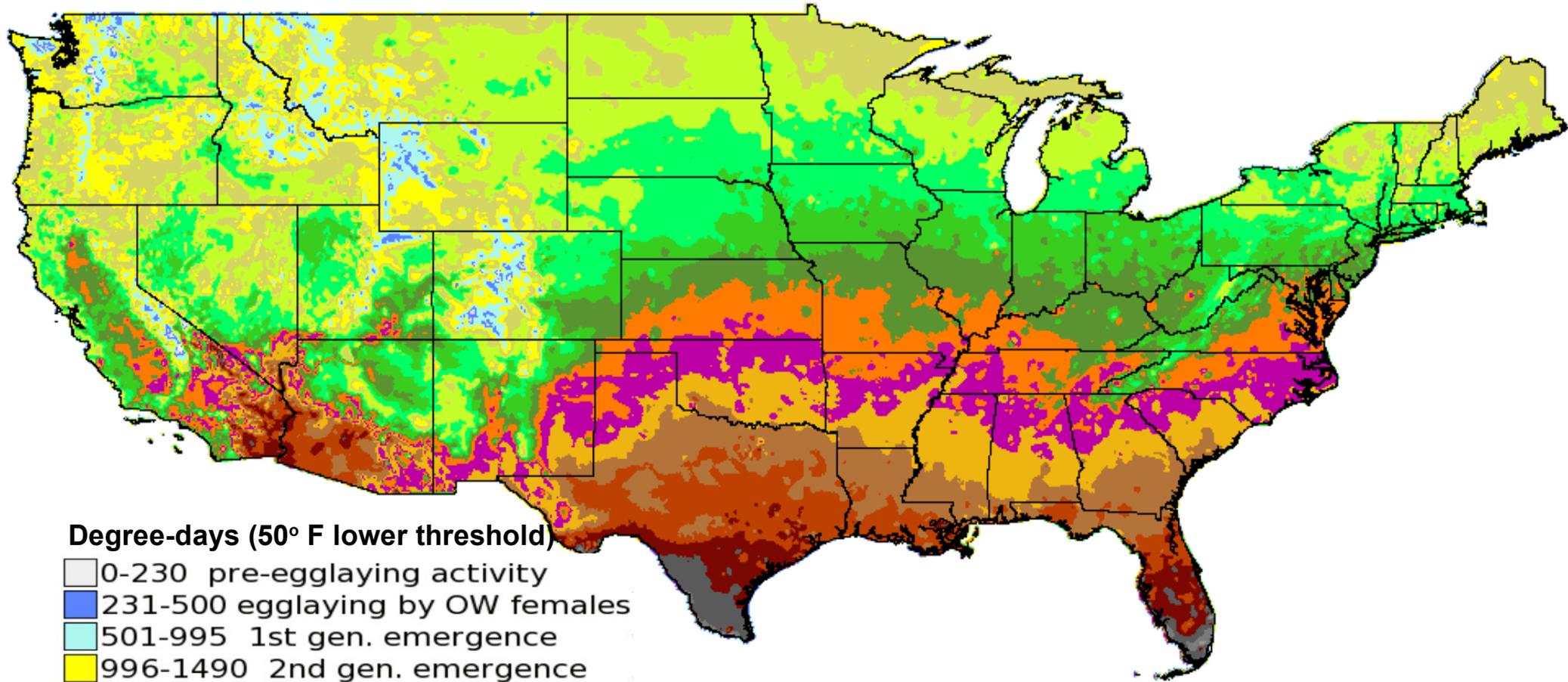


Degree-days (50° F lower threshold)

0-230	pre-egg-laying activity
231-500	egg-laying by OW females
501-995	1st gen. emergence
996-1490	2nd gen. emergence
1491-1985	3rd gen. emergence
1986-2480	4th gen. emergence
2481-2975	5th gen. emergence
2976-3470	6th gen. emergence
3471-3965	7th gen. emergence
3966-4460	8th gen. emergence
4461-4955	9th gen. emergence
4956-5450	10th gen. emergence
5451-5945	11th gen. emergence
5946-6440	12th gen. emergence

Degree-day model developed at OSU
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Spotted Wing Drosophila Estimated Phenology Jan 1 - Oct 1 2011

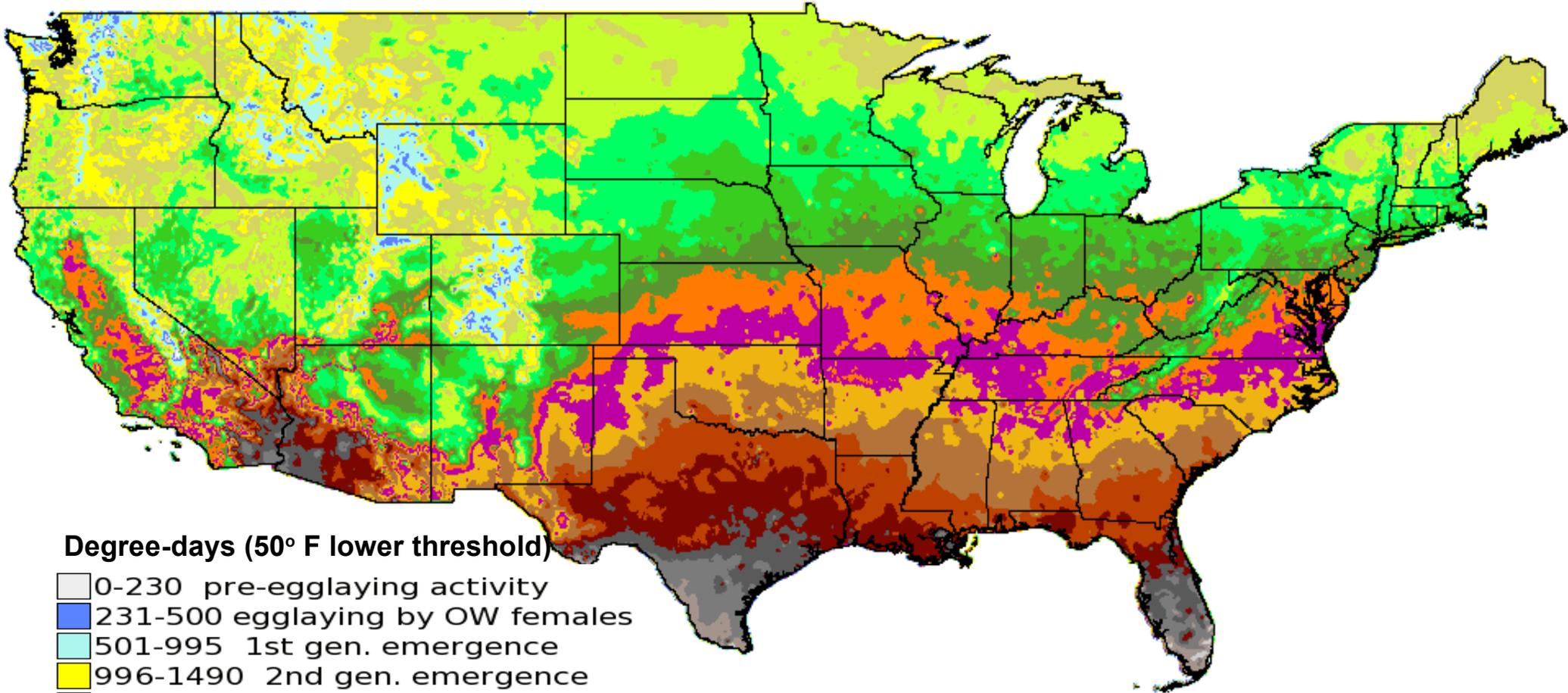


Degree-days (50° F lower threshold)

0-230	pre-egg laying activity
231-500	egg laying by OW females
501-995	1st gen. emergence
996-1490	2nd gen. emergence
1491-1985	3rd gen. emergence
1986-2480	4th gen. emergence
2481-2975	5th gen. emergence
2976-3470	6th gen. emergence
3471-3965	7th gen. emergence
3966-4460	8th gen. emergence
4461-4955	9th gen. emergence
4956-5450	10th gen. emergence
5451-5945	11th gen. emergence
5946-6440	12th gen. emergence
6441-6935	13th gen. emergence
6936-7430	14th gen. emergence

Degree-day model developed at OSU
IPPC uspest.org/wea in collaboration
with Western Specialty Crops PIPE

Spotted Wing Drosophila Estimated Phenology Jan 1 - Nov 1 2011

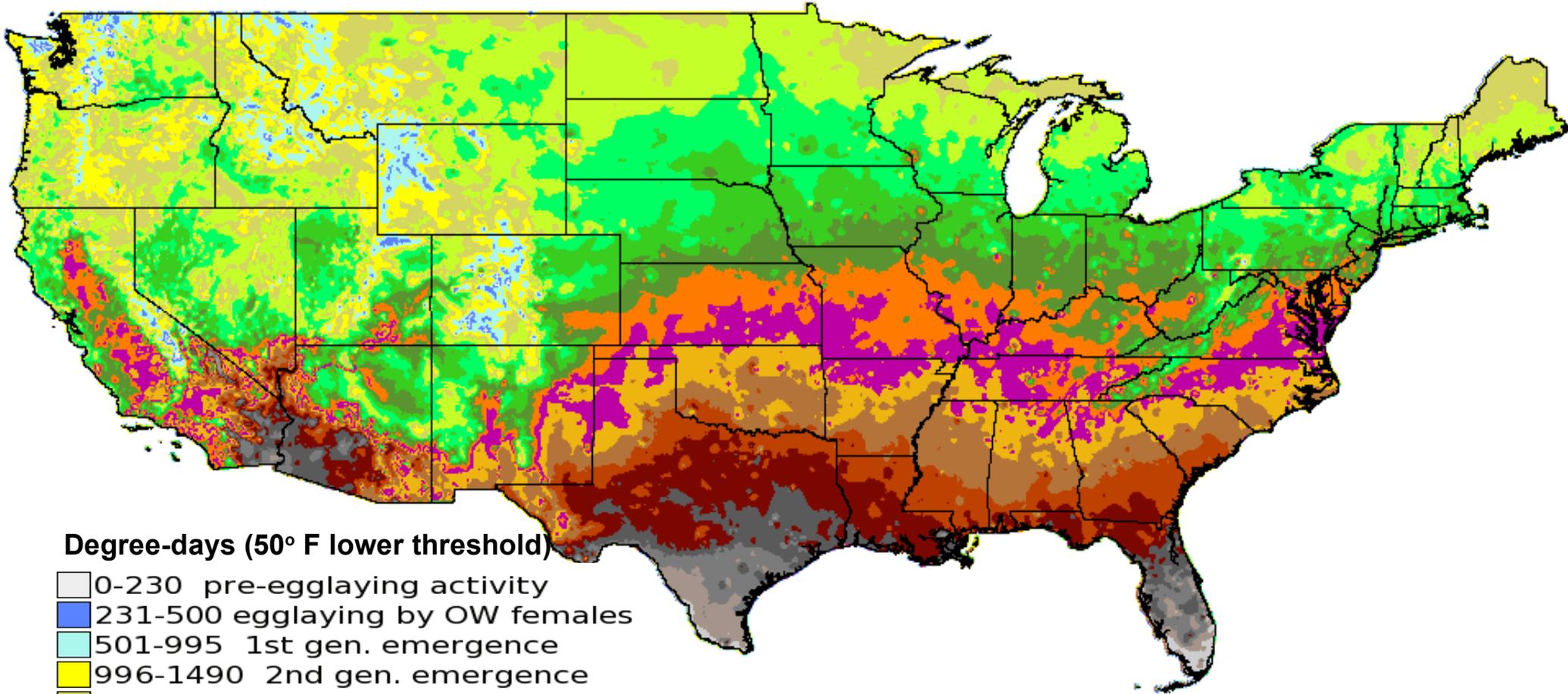


Degree-days (50° F lower threshold)

0-230	pre-egg-laying activity
231-500	egg-laying by OW females
501-995	1st gen. emergence
996-1490	2nd gen. emergence
1491-1985	3rd gen. emergence
1986-2480	4th gen. emergence
2481-2975	5th gen. emergence
2976-3470	6th gen. emergence
3471-3965	7th gen. emergence
3966-4460	8th gen. emergence
4461-4955	9th gen. emergence
4956-5450	10th gen. emergence
5451-5945	11th gen. emergence
5946-6440	12th gen. emergence
6441-6935	13th gen. emergence
6936-7430	14th gen. emergence
7431-7925	15th gen. emergence
7926-8420	16th gen. emergence

Degree-day model developed at OSU
IPPC uspest.org/wea in collaboration
with Western Specialty Crops PIPE

Spotted Wing Drosophila Estimated Phenology Jan 1 - Dec 1 2011



Degree-days (50° F lower threshold)

0-230	pre-egg-laying activity
231-500	egg-laying by OW females
501-995	1st gen. emergence
996-1490	2nd gen. emergence
1491-1985	3rd gen. emergence
1986-2480	4th gen. emergence
2481-2975	5th gen. emergence
2976-3470	6th gen. emergence
3471-3965	7th gen. emergence
3966-4460	8th gen. emergence
4461-4955	9th gen. emergence
4956-5450	10th gen. emergence
5451-5945	11th gen. emergence
5946-6440	12th gen. emergence
6441-6935	13th gen. emergence
6936-7430	14th gen. emergence
7431-7925	15th gen. emergence
7926-8420	16th gen. emergence

Degree-day model developed at OSU
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