

**MELCAST Record Sheet Field # \_\_\_\_\_**

Spray DATE May	EFI Value	Irrigat'n pts	Counter	Fungicide & amt	June	EFI Value	Irrigat'n pts	Counter	Fungicide & amt	July	EFI Value	Irrigat'n pts	Counter	Fungicide & amt	August	EFI Value	Irrigat'n pts	Counter	Fungicide & amt
1					1					1					1				
2					2					2					2				
3					3					3					3				
4					4					4					4				
5					5					5					5				
6					6					6					6				
7					7					7					7				
8					8					8					8				
9					9					9					9				
10					10					10					10				
11					11					11					11				
12					12					12					12				
13					13					13					13				
14					14					14					14				
15					15					15					15				
16					16					16					16				
17					17					17					17				
18					18					18					18				
19					19					19					19				
20					20					20					20				
21					21					21					21				
22					22					22					22				
23					23					23					23				
24					24					24					24				
25					25					25					25				
26					26					26					26				
27					27					27					27				
28					28					28					28				
29					29					29					29				
30					30					30					30				
31										31									

**EFI**=Environmental Favorability Index-Use the phone no. or website in the next column to get values.

**Irrigation pts**=add 2 pts each overhead irrigation.

**Counter**= Spray at thresholds below or each 14 days. Reset EFI values after each spray.

**Thresholds: Muskmelon=20 EFI Watermelon=35 EFI**

**Toll Free Number:**

**1-800-939-1604 Mon-Fri or on the web daily at melcast.info**

For further information, please contact:

email: [egel@purdue.edu](mailto:egel@purdue.edu) - Phone: (812) 886-0198

## MELCAST Information

**MELCAST is a weather-based spray advisory program for the control of foliar diseases of muskmelon and watermelon.**

The primary foliar diseases of muskmelon and watermelon can be managed with information provided by **MELCAST**. These diseases are: Alternaria leaf blight, gummy stem blight and anthracnose.

Many growers find it convenient to call the toll-free phone number to find out the daily EFI values. Other growers prefer to go online to look up the EFI values. While EFI values are posted Monday through Friday on the toll-free phone number, EFI values are posted daily on the Website.

The toll-free phone number for **MELCAST** during the growing season is (800) 939-1604.

The URL for Internet access to **MELCAST** is [melcast.info](http://melcast.info)

For more information about muskmelon and watermelon disease management, see the *Midwest Vegetable Production Guide for Commercial Growers* (ID-56) online at [mwvegguide.org](http://mwvegguide.org)

For more information about **MELCAST**, see "Foliar Disease Control Using MELCAST" BP-67. <http://www.ces.purdue.edu/extmedia/BP/BP-67.pdf>

The **MELCAST** program was developed by Dr. Richard Latin, Department of Botany and Plant Pathology, Purdue University.

Contact Dan Egel with any questions or concerns at 812-886-0198 or email: [egel@purdue.edu](mailto:egel@purdue.edu).

Address: Southwest Purdue Ag Program, 4369 N. Purdue Rd., Vincennes, IN 47591.

Spray DATE	EFI Value	Irrigati'n pts	Counter	Example Watermelon Fungicide & amt
May 1				
2				
3				
4				
5				
6	7		0	VineTouch, Bravo WS, 2 pts.
7				
8				
9	12		5	
10				
11	19		12	
12				
13	25		18	
14	29		22	
15	34		27	
16	38		31	
17	40		33	Dithane, M-45, 2 lbs.
18				
19				
20	44		4	
21				
22	46		6	
23				
24				
25	48		8	
26				
27				
28	53		13	
29				
30	55	2	15	
31	55		15	Bravo WS, 2 pts.

**Using MELCAST is easy.** Instead of applying fungicides every seven days, use the simple steps below. (Also see the example on this page.)

**Apply initial fungicide spray** at or before vine touch within a row.

**Check the EFI value** for the day the fungicide was applied.

**Calculate the threshold** for the next spray by adding 20 (muskmelon) or 35 (watermelon) to the EFI value in step 2.

**Apply the next fungicide** application 14 days after the first, or sooner if the EFI threshold has been reached.

**Check the EFI values** on the day you make your next fungicide application and re-calculate the threshold for the next application.

Use **MELCAST** as a guide to schedule your fungicide applications, but also use common sense. If severe disease pressure exists because of inadequate crop rotation, disease introduced on transplants, etc., return to a 7-day fungicide schedule.