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BOARD OF PESTICIDES CONTROL  
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SETH BRADSTREET  
COMMISSIONER  
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TO: Board Members  
FROM: Lebelle Hicks, PhD, DABT  
RE: Bt-corn Update  
March 9, 2009

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Attached are two tables summarizing the current status of Bt-corn product registration in Maine. Table 1 is a summary of the Bt-corn products pending registration and Table 2 is a summary of currently registered products. As you will recall, the Medical Advisory Committee (MAC) is still in the process of reviewing the risks of Bt sweet corn. The MAC met once and its next meeting will be on July 20.

The staff is seeking Board input into whether the following additional reviews of pending Bt-corn registrations are appropriate:

1. Review by the Technical Committee (TC) of MON 89034 which currently would only require a 5% refuge. Monsanto has indicated that this event will be commercialized and stacked with the herbicide resistance genetics and the 5% refuge.
2. Review by the TC of two Syngenta products with stacked traits, including the MIR 162 event which codes for the VIP3Aa20 protein in field corn.
3. Review by MAC the of two Syngenta products with stacked traits including the MIR 162 event that codes for the VIP3Aa20 protein in field corn. While the MAC declined to review the Cry proteins in field corn, the VIP3Aa20 is a different type of protein and the Board may wish to include it in the ongoing Bt sweet corn MAC review.



**Table 1. Bt-corn Products; Registration Pending**

Product	EPA#	Protein	Events/ Cross	Corn Type	Refuge	Received	Review Status	Registrant
MON 89034	524-575	Cry1A.105; 0.002 to 0.0056%	MON 89034	Field	5%	7/16/08	TC o refuge size	Monsanto
		Cry2Ab2; 0.0015 to 0.0055%		Sweet	Cut down		MAC	
MON 89034 X MON 88017	524-576	Cry1A.105; 0.002 to 0.0056%	MON 89034 x MON 88107	Field	20%	7/16/08	TC 12/8/08	Monsanto
		Cry2Ab2; 0.0015 to 0.0055%		Sweet	Cut down		TC 12/8/08 MAC	
		Cry3Bb1; 0.0037 to 0.0070%						
MIR 162 Maize	67979-14	Vip3Aa20; 0.00167 to 0.00751%	MIR 162	Seed prop	NA	12/3/08	TC; new protein	Syngenta
Agrisure 2100 Bt11 x MIR162	67979-12	Cry1Ab; 0.00140 to 0.00204%	Bt 11 x MIR 162	Field	20%	2/26/09	Bt 11 reviewed by TC; VIP protein has not	Syngenta
		Vip3Aa20; 0.0068 to 0.0087%						
Agrisure 3100 Bt11 x MIR162 x MIR604	67979-13	Cry1Ab; 0.00140 to 0.0017%	Bt 11 x MIR 604 x MIR 162	Field	20%	2/26/09	Bt 11 and MIR 604 reviewed by TC; VIP protein has not	Syngenta
		mCry3a 0.0013 to 0.0021 %						
		Vip3Aa20; 0.0057 to 0.0088%						
Attribute	65268-1	Cry1Ab; 0.0002 to 0.0006 %	Bt 11	Sweet	Cut down	10/6/08	Bt 11 reviewed by TC MAC	Syngenta

**Table 2. Bt-corn Products; Currently Registered**

Product	EPA #	Protein	Events/ Cross	Corn Type	Refuge	Review Status	Company
Herculex I	29964-3	Cry1F <0.001 to 0.235%	TC1507	Field	20%	TC done 7/17/07	Pioneer
Herculex I	68467-2	Cry1F <0.001 to 0.235%	TC1507	Field	20%	TC done 7/17/07	Dow
Herculex RW	29964-4	Cry34Ab1; 0.000867 to 0.0088%	DAS-59122-7	Field	20%	TC done 7/17/07	Pioneer
		Cry35Ab1; 0.000413-0.00181%					
Herculex RW	67467-5	Cry34Ab1; 0.000867 to 0.0088%	DAS-59122-7	Field	20%	TC done 7/17/07	Dow
		Cry35Ab1; 0.000413-0.00181%					

**Table 2. Bt-corn Products; Currently Registered**

<b>Product</b>	<b>EPA #</b>	<b>Protein</b>	<b>Events/ Cross</b>	<b>Corn Type</b>	<b>Refuge</b>	<b>Review Status</b>	<b>Company</b>
Herculex XTRA	29964-5	Cry1F; 0.000288 to 0.001740 %	TC1507 x DAS-59122-7	Field	20%	TC done 7/17/07	Pioneer
		Cry34Ab1; 0.006480 to 0.016840 %					
		Cry35Ab1; 0.001950 to 0.006760%					
Herculex XTRA	68467-6	Cry1F; 0.000288 to 0.001740 %	TC1507 x DAS-59122-7	Field	20%	TC done 7/17/07	Dow
		Cry34Ab1; 0.006480 to 0.016840 %					
		Cry35Ab1; 0.001950 to 0.006760%					
Agrisure RW	67979-5	mCry3a # 0.029 %	MIR 604	Field	20%	TC done 7/17/07	Syngenta
Agrisure CB/LL/RW	67979-8	Cry1Ab# 0.0029 %	Bt 11 x MIR 604	Field	20%	TC done 7/17/07	Syngenta
		mCry3a # 0.0069 %					
Agrisure CB/LL with Yieldgard	67979-1	Cry1Ab 0.0002 to 0.0006%	Bt 11	Field	20%	TC done 7/17/07	Syngenta
YieldGard Plus	524-545	Cry1Ab; 0.002 to 0.005 %	MON 863	Field	20%	TC done 7/17/07	Monsanto
		Cry3Bb1; 0.003 to 0.016 %					
Yieldguard Corn Borer	524-489	Cry1Ab; 0.002 to 0.005 %	MON 863	Field	20%	TC done 7/17/07	Monsanto
Yieldguard Rootworm	524-528	Cry3Bb1; 0.003 to 0.016 %	MON 863	Field	20%	TC done 7/17/07	Monsanto
Yieldguard VT Rootworm	524-551	Cry3Bb1 0.0075 to 0.013%	MON 88017	Field	20%	TC done 7/17/07	Monsanto
Yieldguard VT Triple	524-552	Cry3Bb1 0.0071 to 0.015%	MON 88017 x MON 863	Field	20%	TC done 7/17/07	Monsanto
		Cry1Ab; 0.0038 to 0.007 %					