

New Re	ply Forward Move Follow Up Tools 🖓 🚑 🗟 🗙 🔶 😜
Date: Subject:	Thursday, September 14, 2006 01:51PM Re: More fill-in the blank DNA screening - field sampling for analysis and ha conversation rates for sterile releases
From:	<u>Bruce Tabashnik <brucet@ag.arizona.edu></brucet@ag.arizona.edu></u>
To:	Sharlene Matten/DC/USEPA/US@EPA
cc:	<u>LAntilla@AZCotton.org</u> , <u>Bob Staten <azbugdoc@cox.net></azbugdoc@cox.net></u> , <u>tdennehy@Ag.arizona.edu</u>

Sharlene,

To convert to ha multiply acres X 2.47 because there are 2.47 acres per ha. So 20 steriles/Bt acre = 49.4 steriles per Bt ha. 100 steriles per non-Bt acre = 247 steriles per non-Bt ha. It's best to keep "per day" separate from "per release." The latest information I have on releases is the following, based on a conversation with Bob Staten (8-25-06):

## Non-Bt cotton, 3 releases per week (1 release per 2.3 days)

Mean to date = 251 moths per acre per release (621 per ha per release) 251 moths per acre per release X 3 releases per week = 753 moths per acre per week 753 moths per acre per week divided by 7 days per week = 108 moths per acre per day

## Bt cotton, 3 releases per week (1 release per 3 days)

Mean to date = 53.1 moths per acre per release (131 per ha per release)

53.1 moths per acre per release X 3 releases per week = 159.3 moths per acre per week 159.3 moths per acre per week divided by 7 days per week = 22.8 moths per acre per day

If non-Bt = 7% of acreage, Bt = 93% of acreage,  $108 \ge 0.07 + 22.8 \ge 0.93 = 7.56 + 21.2$ 

actual mean release rate = 28.8 moths per acre (71.1 per ha) per day

Note: Production of 70 million moths per week /165,000 acres of cotton = 420 moths per acre per week = potential mean release rate = 60 moths per acre per day (estimated mean is half of this)

Should have more info for you later today on PCR sampling, I don't have "suspect site" info.

## **US EPA ARCHIVE DOCUMENT**