

Bovine TB Gamma Interferon Data Entry Instructions

Note: these instructions are specific to gamma interferon data entry and are for users with some knowledge of generic data base (GDB) data entry. Detailed manuals on basic data entry, log-in, navigation, etc. can be obtained from the GDB Help website. The website is located at <http://gdb.aphis.usda.gov>. Once there, select the following links: Documentation, then GDB, and then Generic Data Base Data Entry Tutorial to find all chapters of the data entry manual.

Background

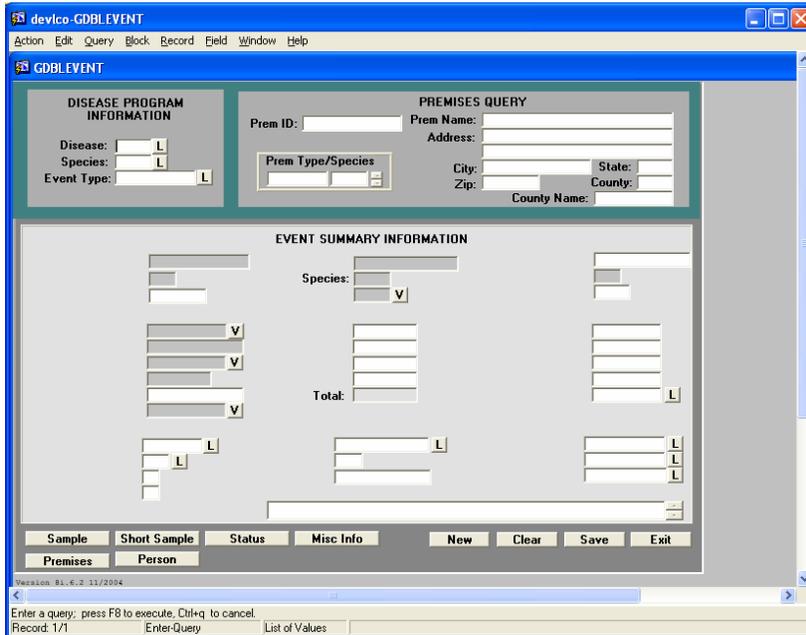
Bovine gamma interferon is a blood-based diagnostic test for detection of tuberculosis. Gamma Interferon is currently approved for use in cattle only, either as a replacement for the comparative cervical test, or in combination with other tuberculosis diagnostic tests. Approval of the test is at the state level, with the concurrence of the AVIC and the Chief animal health officer (State Veterinarian) of the state.

Entering Gamma Interferon Summary Data

The Event Summary form is used to enter gamma interferon summary data into the GDB. An event type of TBGI is used.

1. Log onto the GDB
2. From the IMMS menu screen select (left-click) Generic Data Base.
3. From the next menu select Forms
4. From the next menu select Event Summary

A blank event summary form will open on the screen as seen below. Note that there are no labels to the left of data fields on the event summary information block of the form.



STEP 1 – Select the label set for gamma interferon entry

- a. When you opened a blank event summary form, you should automatically be in Query mode.
- b. In the Disease Program Information Block, type in:

Disease = TB
 Species = BOV
 Event Type = TBGI



c. Press F8 to execute a Query for the label set and create screen labels. Your screen should look like the following:

The screenshot shows a software window titled "devlco-GDBLEVENT" with a menu bar (Action, Edit, Query, Block, Record, Field, Window, Help). The main area is divided into several sections:

- DISEASE PROGRAM INFORMATION:** Disease: TB L, Species: BDV L, Event Type: TBGI L.
- PREMISES QUERY:** Prem ID: , Prem Name: , Address: , Prem Type/Species: , City: , State: , Zip: , County Name: .
- EVENT SUMMARY INFORMATION:** Prem Id: , Es Nr: , Evnt Ent Date: , Prem State: , Species: , Entry State: , Prem Type: , Disease: V, Event County: , Event Type: V, Nr Neg: , Nr No Test: , Coll Date: , Nr Sus: , Nr In Lot: , Event Rsn: V, Nr Rea: , Serial Nr A: , Event Seq Nr: , Nr Oth: , Serial Nr B: , Lab Date: , Total: , Anim Site: L, Paycode: V, Person Id: L, Lab: L, TBCF Test Date: L, Person State: L, Lab State: L, TBCC Test Date: L, Pay Stop: , Event3 Date: , User Field 3: L, Fund: , Remarks: .

At the bottom, there are buttons for "Sample", "Short Sample", "Status", "Misc Info", "New", "Clear", "Save", "Exit", "Premises", and "Person". The status bar at the very bottom shows "Enter a query: press F8 to execute, Ctrl+q to cancel." and "Record: 1/1".

STEP 2 - Query for the Premises on which gamma testing data will be entered.

- a. Your cursor will be automatically moved to the Prem ID field in the Premises Query Block
- b. You will automatically be in Query mode
- c. Type in a Prem ID, Prem name, Address, City, etc. You should type in as much information as you need to retrieve the premises you want to enter the event summary for.
- d. Press F8 to execute the premises query. Depending upon how specific your query was, you may retrieve more than one premises. Scroll through premises using the down arrow and up arrow until you find the correct premises. (if the premises doesn't already exist in the data base, you will have to create a premises record first).
- e. Check the Prem Type/Species Block. If necessary, scroll through choices to select the correct Prem type/Species combination
- f. If your cursor is in the Prem type/Species block, use CTL- PAGE DOWN keystroke combination to move to the Event Summary Information Block.
- g. Your cursor should now be in Collection Date (Coll Date) field. You should also be in data entry mode and ready to enter data. Notice that many of the fields are automatically filled out based on information from previous queries.

The screenshot displays the 'devlco-GDBLEVENT' application window. The interface is divided into several sections:

- PREMISES QUERY:** Contains fields for Prem ID (SDB), Prem Name (Benotson Steve), Address (2150 Centre Ave Bldg B), City (Fort Collins), State (CO), Zip (80526), County (069), and County Name (Larimer).
- PREM TYPE/SPECIES:** A dropdown menu showing 'FRM' and 'BOV'.
- DISEASE PROGRAM INFORMATION:** Includes Disease (TB), Species (BOV), and Event Type (TBGI).
- EVENT SUMMARY INFORMATION:** A large section with multiple fields: Prem Id (SDB), Es Nr (20052567806), Evtnt Ent Date (13-SEP-2005), Prem State (CO), Species (BOV), Entry State (GA), Prem Type (FRM), Disease (TB), Event County (069), Event Type (TBGI), Coll Date, Event Rsn, Event Seq Nr, Lab Date, Paycode, Nr Neg, Nr Sus, Nr Rea, Nr Dth, Total, Nr No Test, Nr In Lot, Serial Nr A, Serial Nr B, Anim Site, Person Id, Lab, TBCF Test Date, Person State, Lab State (GA), TBCC Test Date, Pay Stop, Event3 Date, User Field 3, and Fund.
- Remarks:** A text area at the bottom of the Event Summary section.
- Navigation Buttons:** Sample, Short Sample, Status, Misc Info, New, Clear, Save, Exit, Premises, Person.
- Footer:** Version 81.6.2 11/2004 and Record: 1/1.

Step 3 – Enter Event Summary Gamma Interferon Data

1. Coll Date: Enter the date the blood samples were collected. (DD-MON-YYYY)
2. Event Rsn: Select the appropriate reason this test was performed (ARE, DX, etc.)
3. Event Seq Nr: Leave as 0 if this was an initial test; If this is a retest of animals gamma tested previously, enter 1.
4. Lab Date: enter the date the lab performed the test. (DD-MON-YYYY)
5. Paycode: Select the appropriate code for who collect the blood sample: 1 for Federal employee, 3 for State employee, etc.
6. NR Neg, NR Sus, NR Rea: Enter the total number of animals that were classified by the DTE as negative, suspects or reactors to the test.
7. Person ID and Person State: Enter the person ID and state of the individual that collected gamma interferon blood. [if needed, see GDB data entry tutorial on adding person records to the common data system (CDS)].
8. Add Lab and Lab State if available.
9. Spaces are available to add a TBCF (caudal fold) and/or TBCC (comparative cervical) test dates, if appropriate.
10. Press F10 to save the event summary record.

Example of Completed Event Summary

The screenshot displays the 'devlco-GDBLEVENT' application window. The interface is divided into several sections:

- DISEASE PROGRAM INFORMATION:** Disease: TB, Species: BOV, Event Type: TBGI.
- PREMISES QUERY:** Prem ID: SDB, Prem Name: Benetson Steve, Address: 2150 Centre Ave Bldg B, City: Fort Collins, State: CO, Zip: 80526, County: 069.
- EVENT SUMMARY INFORMATION:** Prem ID: SDB, Prem State: CO, Prem Type: FRM, Es Nr: 20052217784, Species: BOV, Disease: TB, Evt Ent Date: 09-AUG-2005, Entry State: GA, Event County: 069. It also includes fields for Event Type (TBGI), Coll Date (07-JUL-2005), Event Rsn (DX), Event Seq Nr (0), Lab Date (09-JUL-2005), Paycode (1), Person ID (3333), Lab (TVMD), Lab State (TX), TBCF Test Date (01-JUL-2005), TBCC Test Date, and a Remarks field.

At the bottom, there are buttons for 'Sample', 'Short Sample', 'Status', 'Misc Info', 'New', 'Clear', 'Save', and 'Exit'. The status bar at the bottom left indicates 'Record: 1/1'.

Entering Individual Gamma Interferon SAMPLE and TEST RESULTS

A Sample Record is used to enter individual animal information (ID, Sex, Age, Breed, etc.) and a Test Interpretation made by the DTE (designated tuberculosis epidemiologist).

A Test Result Record is used to enter individual Test Names and Test Results.

STEP 1 – Open a new sample record screen.

1. From the completed event summary screen, left click on the Sample button (or press the CTL-PAGE DOWN key combination). This will take you to a blank sample/test result screen

The screenshot shows the 'devico-GDBLEVENT' software window. The interface is divided into several sections:

- DISEASE INFORMATION:** Disease: TB, Species: BOV, Event Type: TBGI.
- SUMMARY INFORMATION:** Es Nr: 20052217784, Prem Id: SDB, Prem State: CO, Entry State: GA, Disease: TB, Species: BOV.
- SAMPLE INFORMATION:** Seq Nr: 1, Ind Range: [blank], Ind Id: [blank], Pay Group: [blank], Nr In Lot: [blank], Case Nr: [blank], Unit: [blank]. Below this are fields for Eartag, Bngl/bktg, Mex_id, Id4, Id5, Id6, Source, Test Interp (N), Nr Neg, Nr Sus, Nr Pos, Age, Breed, Sex, Origin, Origin State, Prem Name, Disposition, User Field 1, 2, and 3.
- OWNER INFORMATION:** Owner Prem ID: Q, Owner Name, Owner City, Owner State, County Name.
- Remarks:** [blank text area]
- Test Name:** [table with 5 columns]
- Test Result:** [table with 5 columns]

At the bottom, there are buttons for Summary, New, Clear, Save, and Exit. The status bar at the very bottom shows 'Record: 7/7'.

STEP 2 – Enter data into the sample record.

1. Seq_Nr: defaults to 1 (you may change this if desired to enter in a number corresponding to the actual blood sample tube if desired)
2. Ind Range: For an individual animal sample you may leave blank or enter the letter I (note: the database handles a blank field as I = individual record)
3. ID fields – Enter the animal's eartag, backtag, or any other ID's in one of the six available ID fields
4. Age, Breed, and Sex – enter any additional information you have about the animal being tested in these fields

5. Test Interp – enter the test interpretation by the DTE in this field, either N, S, or R. (Leave the Nr. Neg:, Nr Sus:, or Nr. Pos fields below the test interp field blank since this is an individual animal record)

Note: Laboratories DO NOT all report out gamma interferon results in the same manner. Go to the instructions for entering test results based upon the type of results received from your gamma interferon laboratory. Use either:

- Scenario 1 – Lab Reports out numerical values for ALL tests, OR
- Scenario 2 – Lab DOES NOT report out numerical values on all tests

SCENARIO 1

Note: The lab may report out numerous values for the test which may include: bovine response, avian response, positive control, negative (NIL) control. They may also report out calculated values of Bovine – Avian and/or Bovine – (NIL) control. Minimum data that should be entered is the Bovine – Avian result.

STEP 3 – Enter Bovine Gamma Interferon Test Results

1. Press CTL-PAGE DOWN to move to the Test Result block
2. Enter the test name **B-A** (Bovine minus Avian response) in the Test Name field.
3. Press ENTER to move to the Test Result Field.
4. Enter the numerical value of the test result. This value will be reported as a number either greater than zero (eg .147) or less than zero (eg -.056).

STEP 4 – (IF REPORTED) Enter Bovine minus Control

Note: If available, the Bovine – Control (NIL) value should be entered as well. Use the Test Name B-C if these results are available.

1. To add another test result, press the DOWN ARROW key to move to the next test name field. Enter **B-C** in the test name field.
2. Press the ENTER key to move to the Test Result field and enter numerical value of the test result.
3. Press F10 to save the sample and test result records.

SCENARIO 1

Example: Sample record with Test results for Bovine minus Avian and Bovine minus Control.

Note: Test Interp (in sample record) could be N, S, or R depending on the number value in the test result field (DTE determines test interpretation)

The screenshot displays the 'devlco-GDBLEVENT' software window. The interface is divided into several sections:

- DISEASE INFORMATION:** Disease: TB, Species: BOV, Event Type: TBGI.
- SUMMARY INFORMATION:** Es Nr: 20052217784, Prem Id: SDB, Prem State: CO, Entry State: GA, Disease: TB, Species: BOV.
- SAMPLE INFORMATION:** Seq Nr: 5, Ind Range: [], Ind Id: [], Pay Group: [], Case Nr: [], Unit: [], Eartag: 86AGT7789, Source: [] L, Test Interp: S [] L, Age: A, Bngl/bktg: [], Source: [] L, Nr Neg: [], Breed: HE [] L, Mex_id: [], Nr Sus: [], Sex: ST [] L, Id4: [], Tag Query, Nr Pos: [], Origin: [] Q, Id5: [], Origin State: [], Prem Name: [], Id6: [], Disposition: [].
- OWNER INFORMATION:** Owner Prem ID: [] Q, Owner Name: [], Owner City: [], Owner State: [], Owner County: [], County Name: [].
- Remarks:** []
- Test Results:** Test Name: B-A [] L, B-C [] L, Test Result: .156 [] L, .041 [] L.

At the bottom, there are buttons for 'Summary', 'New', 'Clear', 'Save', and 'Exit'. The status bar at the bottom left indicates 'Record: 5/6'.

STEP 5 – Enter Additional Sample Records as necessary

1. Move to the sample block (CTL- PAGE UP).
2. With your cursor in a field in the sample record, press the DOWN ARROW key. This takes you to a new record.
3. Repeat the process of entering sample and test result data and press F10 to save the new record. Repeat until all tests have been entered for all samples under this event summary for this premises.

SCENARIO 2

Some labs (such as the Texas lab) only report out numerical values for certain tests. Therefore, you will not be able to record numerical values for all tests. In this case, you should record results as follows:

When receive results from lab as:	Enter Test Name as:	Enter Test Result as:
B/P, BP, or Pos = .153	B-A	.153
A/P, AP = .243	B-A	-.243
GI = N or Neg	Test record not necessary	Test record not necessary

STEP 3 – Enter Bovine Gamma Interferon Test Results

1. Press CTL-PAGE DOWN to move to the Test Result block
2. Enter the test name **B-A** (Bovine minus Avian response) in the Test Name field.
3. Press ENTER to move to the Test Result Field.
4. Enter the numerical value of the test result as per the above chart. This value may be reported as a number either greater than zero (eg .147) or less than zero (eg -.056). Examples are shown at the end of this document.
5. Press F10 to save the sample and test result records

STEP 4 – Enter Additional Sample Records as necessary

1. Move to the sample block (CTL- PAGE UP).
2. With your cursor in a field in the sample record, press the DOWN ARROW key. This takes you to a new record.
3. Repeat the process of entering sample and test result data and press F10 to save the new record. Repeat until all tests have been entered for all samples under this event summary for this premises.

SCENARIO 2

Example 1: Sample record with Test results reported by lab as B/P, BP, or Pos = .153

Note: Test Interp (in sample record) could be S, or R depending on the number value in the test result field and whether this is an initial test or retest (DTE determines test interpretation)

The screenshot displays the 'devlco-GDBLEVENT' application window. The interface is divided into several sections for data entry:

- DISEASE INFORMATION:** Disease: TB, Species: BOV, Event Type: TBGI.
- SUMMARY INFORMATION:** Es_Nr: 20052217784, Prem_ID: SDB, Prem_State: CO, Entry_State: GA, Disease: TB, Species: BOV.
- SAMPLE INFORMATION:** Seq_Nr: 1, Ind_Range, Ind_ID, Pay_Group, Case_Nr, Nr_In_Lot, Unit, ID1-6, Source, Tag Query, Test_Interp: S, Age: A, Breed: HE, Nr_Neg, Nr_Sus, Nr_Pos, Sex: ST, Origin, Origin_State, Prem Name, Disposition, User_Field_1-3.
- OWNER INFORMATION:** Owner_Prem_ID, Owner_Name, Owner_City, Owner_State, Owner_County, County Name.
- Remarks:** Scenario 2 Example 1 - Lab reports B/P = .153
- Test Results:** Test Name: B-A, Test Result: .153.

At the bottom, there are buttons for 'Summary', 'New', 'Clear', 'Save', and 'Exit'. The status bar at the very bottom shows 'Record: 1/?'.

SCENARIO 2

Example 2: Sample record with Test results reported by lab as A/P, AP, = .243

Note: Test Interp (in sample record) is N since this is a negative test (Avian response is greater than bovine response; i.e. B-A is a negative number).

The screenshot displays the 'devlco-GDBLEVENT' application window. The interface is divided into several sections for data entry:

- DISEASE INFORMATION:** Disease: TB, Species: BOV, Event Type: TBGI.
- SUMMARY INFORMATION:** Es_Nr: 20052217784, Prem_ID: SDB, Prem_State: CO, Entry_State: GA, Disease: TB, Species: BOV.
- SAMPLE INFORMATION:** Seq_Nr: 2, Ind_Range, Ind_ID, Pay_Group, Nr_In_Lot, Case_Nr, Unit, ID1-6, Source, Tag Query, Test_Interp: N, Age: A, Breed: HE, Nr_Neg, Nr_Sus, Nr_Pos, Sex: ST, Origin, Origin_State, Prem Name, Disposition, User_Field_1-3.
- OWNER INFORMATION:** Jwner_Prem_ID, Owner_Name, Owner_City, Owner_State, Owner_County, County Name.
- Remarks:** Scenario 2 Example 2 - Lab reports A/P = .243
- Test Results:** Test Name: B-A, Test Result: -.243.

At the bottom, there are buttons for 'Summary', 'New', 'Clear', 'Save', and 'Exit'. The status bar at the very bottom shows 'Record: 2/?'.

SCENARIO 2

Example 3: Sample/Test Result record when Test results reported by lab as GI = N or Neg
(entering Test Name and Test Result not necessary since the sample record contains a test interpretation)

Note: Test Interp (in sample record) is N since the test is negative.

The screenshot shows a software window titled "devlco-GDBLEVENT" with a menu bar (Action, Edit, Query, Block, Record, Field, Window, Help) and a toolbar. The main area is divided into several sections:

- DISEASE INFORMATION:** Disease: TB, Species: BOV, Event Type: TBGI.
- SUMMARY INFORMATION:** Es_Nr: 20052217784, Prem_ID: SDB, Prem_State: CO, Entry_State: GA, Disease: TB, Species: BOV.
- SAMPLE INFORMATION:** Seq_Nr: 3, Ind_Range, Ind_ID, Pay_Group, Case_Nr, Nr_In_Lot, Unit, ID1: 86AGT7787, ID2, ID3, ID4, ID5, ID6, Source, Tag Query, Test_Interp: N, Nr_Neg, Nr_Sus, Nr_Pos, Age: A, Breed: HE, Sex: ST, Origin, Origin_State, Prem Name, Disposition, User_Field_1, User_Field_2, User_Field_3.
- OWNER INFORMATION:** Jwner_Prem_ID, Owner Name, Owner_City, Owner_State, Owner_County, County Name.
- Remarks:** Scenario 2 Example 3 - Lab reports GI = NEG (no numerical values)
- Test Name:** [Grid]
- Test Result:** [Grid]

Buttons at the bottom include Summary, New, Clear, Save, and Exit. The status bar shows "Record: 1/1" and "List of Values".