The Use of a Customized Field Data Management System in Mosquito Control - Tim McGonegal

a) Background
   i) Prince William County
      (1) Population base is 402,000
      (2) Bedroom community for DC
   ii) Control mosquitoes and various forest pests
      (1) Full IPM
      (2) 12 full-time, 5 seasonal
      (3) Funded by tax levy ($1.7 million)
   iii) Why a new system
      (1) Old system
         (a) Paper based
         (b) Lots of missing data
         (c) Lots of data entry
         (d) Techs averaged 7 hours a week doing multiple data entry
      (2) New system process
         (a) Started with an off-the-shelf product
            (i) It was better
            (ii) Still not a good fit
         (b) Bid project out to The Timmons Group
         (c) Neither side knew much about the other side's job
         (d) Development
         (e) Beta testing
b) Benefits
   i) Staff can spend more time doing their jobs
   ii) Less error
   iii) Reporting easier
   iv) Can generate maps and reports for the public and for supervisors
c) The system
   i) Cost - $24,000 total
      (1) Software
      (2) Security
      (3) iPads
   ii) Pests
      (1) Mosquitoes
      (2) Cankerworm
      (3) Gypsy moth
   iii) The field part
      (1) Dashboard
         (a) Lists appointments
         (b) Has saved forms
         (c) Lists site visits
      (2) Map interface
         (a) Treatment areas are mapped

   (b) Site treatment info available
   (c) Site history available
  (3) Tools
   (a) Measure
   (b) Tracking
  (4) Data gathering form
   (a) Drop down menus
   (b) Time stamp
   (c) Required fields
   (d) Data go to the cloud as soon as you hit submit
   (e) Goes into a data fusion table
  (5) Search feature
  (6) Working on some updates for calculating amount of product needed
 iv) Lab part
  (1) Adult ID mosquito form
  (2) Mosquito larval ID form
  (3) Testing info
 v) Report generation
  (1) Executive report
   (a) By date range
   (b) By tech
  (2) Can generate a variety of reports using different parameters
 vi) Can dump data into excel files
 vii) Can use fusion tables
d) Updates
 i) Currently web-based
 ii) Will be converted to an app
 iii) Look will change, functionality will improve