



LANDFIRE Applications: Texas Army National Guard Integrated Training Area Management (ITAM) program

Information provided by:

Tim A. Christiansen
TCGC - LRAM/RTLA Coordinator
timothy.a.christiansen2.nfg@mail.mil

Overview: ITAM uses LANDFIRE data and maps on scales of habitat, ecosystem, watershed and landscape. Ten examples of how and why include:

- 1) Planning for possible issues from changes in both climate and weather patterns on vegetation and erosion condition and land management.
- 2) Analyzing changes in vegetation patterns and the effect on erosion management over the last eight years.
- 3) Using products in coordination with other remote sensing products to assist in land condition assessment and habitat health assessments.
- 4) Planning fire management issues such as where fire may occur and intensity of fires at various locations.
- 5) Using products and land use history (back to 1939) to assist in analyzing trends in vegetation condition and soil condition to try to plan sustainability of training sites. (This involves vegetation changes and habitat recovery from various land use.)
- 6) Helping in analysis of training site sustainability for both present and future (next 20 - 40 years) of training lands.
- 7) Applying results of above applications with land use such as heavy equipment and foot training on land condition sustainability in order to maintain Army training needs.
- 8) Combined with field monitoring, using products to detect changes in land and soil conditions.
- 9) Assessing land condition around training sites which may have an influence sustainability of land condition and vegetation composition within training sites.
- 10) Along with hydrological maps and soil maps, using LANDFIRE products to plan and implement management practices on our training sites.