

Stormwater Runoff Quality and Related Studies Conducted by G. Fred Lee

30 years of university teaching and research with extensive research on toxic-available forms of chemical constituents in non-point source runoff

- 1960's
 - Impact of urban stormwater runoff on Madison, WI and other WI lakes; US-Canadian Great Lakes and in Rochester, NY
 - Evaluate nitrogen and phosphorus loads from urban areas and their water quality impacts
 - Develop approaches for assessing available forms of chemical constituents in runoff waters
 - Evaluate chemical constituent loads from atmospheric sources and the potential impacts on water quality
 - Impact of wetlands on water quality
 - Impact of development of recreational lakes on water quality

- 1970's
 - Dallas, TX -- Lake Ray Hubbard watershed runoff impacts
 - Western Europe and North America OECD eutrophication studies of about 200 lakes, reservoirs and several estuaries
 - Developed nutrient export coefficients from various types of land use
 - North Adriatic Coast of Italy -- evaluate causes of excessive fertilization of nearshore waters

- 1980's
 - City and County of Denver, CO -- urban lakes and rivers
 - Fort Collins, CO -- Spring Creek and several urban lakes
 - City of Lubbock, TX -- chain of lakes, sanitary quality and chemical quality
 - State of Florida -- Impact of wetlands on the Kissimmee River system downstream water quality
 - NY Harbor, NJ Shore sanitary quality, urban lakes - watershed runoff on water quality
 - USSR, Argentina, Dominican Republic, Jordan, Israel, Japan, South Africa -- reservoirs

- 1990's
 - Lake Tahoe, CA -- evaluate the impact of development on water quality
 - City of Hammond, IN -- impact of CSO's on sediment quality
 - San Francisco Bay -- evaluate water quality significance of copper
 - Santa Monica Bay -- evaluate impact of urban stormwater runoff-associated heavy metals on Bay water quality
 - San Diego Bay -- evaluate impact of copper ore spill on water quality
 - Rocketdyne - Canoga Park, CA -- review NPDES permit for stormwater runoff
 - Participant in CA Storm Water Quality Task Force
 - Developed BMP's to manage stormwater runoff from new highway in Orange County, CA.

Numerous professional papers and reports were developed on these studies. A list is available upon request. Additional information on these activities is also available upon request.