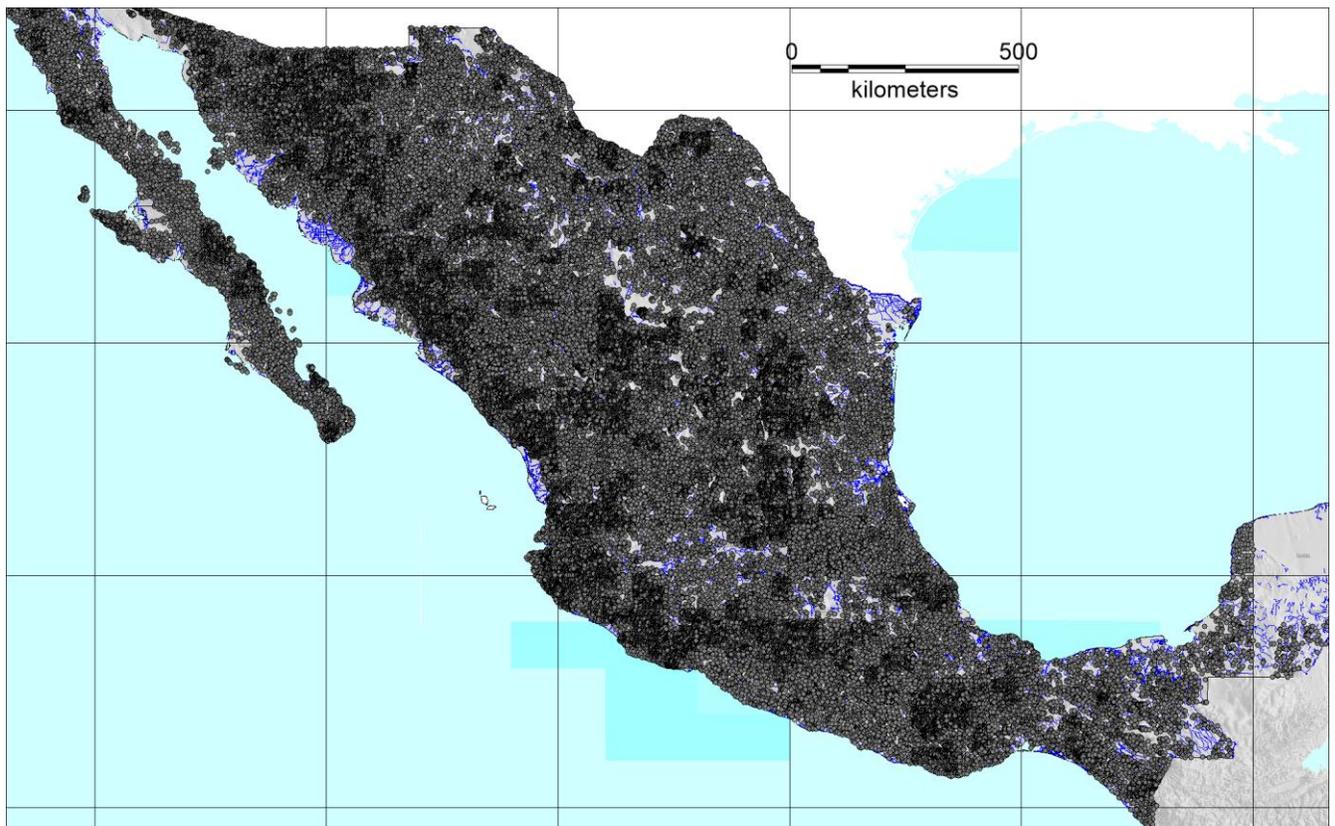


# Mexico multielement geochemical GIS data set

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Multielement geochemical data for a total of 151,192 stream sediment samples covering all of Mexico has been compiled and is available as vector files (in Mapinfo or ArcGIS format). Sample locations are displayed on the map, below. The data set includes analytical results for Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sc, Se, Sn, Sr, Te, Tl, U, W, and Zn plus some results for Ga, Ti and F. All of the data is available to the public; no confidential mining or exploration company data is included.



#### Data set description:

Gambusino Prospector de Mexico ([www.gambusinoprospector.com](http://www.gambusinoprospector.com)), has compiled multielement stream sediment data using, as a starting point, stream sediment data for 134 individual 1:250,000 scale maps, 4 individual 1:100,000 scale maps and 885 individual 1:50,000 scale maps. The original maps and data, as raster images and pdf files, are available for sale from the Sociedad Geologica de Mexico (SGM): <https://www.gob.mx/sgm>.

In addition to analytical data, the data set includes a high-resolution (10-meter) shaded relief base map, major drainages, and infrastructure (e.g. roads, cities, towns). The data set also provides plots showing the location and magnitude of stream sediment geochemical anomalies. The figures on the final page of this handout are sample plots of Au and Cu anomalies in stream sediment samples. These plots demonstrate how the data set can be used to select specific areas for follow-up field work.

The SGM also offers stream sediment geochemical data in MSEXcel and in ArcGIS shp file format. A price list for the SGM data is available at: <https://www.gob.mx/sgm/acciones-y-programas/lista-de-precios-vigentes> and can be purchased, by individual quadrangle, after first registering at: <http://www.sgm.gob.mx/ventas-sgm/EntraCotizacion.jsp>

#### Sampling and Analytical Procedure:

Samples of active stream sediment, collected according to procedures established by the U.S. Geological Survey and the Canadian Geological Survey, were located using a handheld GPS unit and screened on site to minus 80 mesh after removing organic material.

Geochemical analyses for Au, Ag, Al, As, Ba, Be, Bi, Ca, Cd, Co, Cr, Cu, Fe, K, Mg, Mn, Mo, Na, Ni, P, Pb, Sb, Sc, Se, Sn, Sr, Te, Tl, U, W, and Zn (plus some results for Ga, Ti and F) were performed at the SGM lab (formerly the Consejo de Recursos Minerales) by inductively coupled plasma - emission spectrometry (ICP-ES). Gold was first subjected to a fire assay preparation procedure; volatile elements including Sb, As, Te, Se, Sn and Bi were stabilized by hydride prior to ICP-ES analysis. Detection limits were 1 ppb for Au, Se, Te and 0.1 ppm for most other elements.

Pricing for the GIS data set, in either ArcGIS or MapInfo format,

151,192 stream sediment samples (31 elements):	US \$50,000
data from a selected area, per sample:	US \$ 0.50

Prospective clients are invited to “test drive” the data sets via a screen sharing session before making a purchase.

