TECHNICAL PAPER BACKGROUND QUESTIONNAIRE

ISSUE: Identifying research and development Data Fusion technologies that can be transferred to the local (Sheriff) level in support of counter-narcotics law enforcement operations.

PROBLEM: How to develop and apply existing GIS/Data Fusion technologies to support local (Sheriff) level counter-narcotics law enforcement operations.

MESSAGE: GIS/Data Fusion technologies are available *now* to provide a wide variety of operational counter-narcotics support systems. Only the *will* (and funding) is required to implement effective operational systems.

TECHNOLOGY: GIS and Data Fusion technologies combine with map digitizing, scanning, video, and relationaly database field reconnaissance information entry, to provide a comprehensive law enforcement case against ilicit drug growers.

DATA: Terrain, satellite, topographic map, and empirical field reconnaissance information is combined in a GIS/Data Fusion context to provide a predictive geographic map display of potential ilicit growing areas.

STATUS: To facilitate counter-drug conviction activities, the first JPL delivery to the Los Angeles County Sheriff (28 APR94) provided the *relationally* integrated capability of identifying textural database entries with their geographic map location. The second delivery (JUL94) will provide the capability of *bi-directional relational* connectivity between the textural database and map location database, and connection with the video subsystem entries to provide a conclusive law enforcement criminal case against accused large scale marijuana growers. The resulting 111 DFS capability provides a comprehensive operational product that will increase current convictions, and potential ly reduce future felon y activities through the adjustment of Data Fusion parameters to compensate for changes in criminal habits.