

## Chapter 10 **Management** of GW.

### 10.1 Concepts of **Basin** management

Planning in terms of on **entire GW basin** mgt.

objective : develop and operate the basin 

aspects : geologic , hydrologic

economic , legal , political , financial

proper mgt. Table 10.1.1

- Equation of Hydrologic Equilibrium
  - a) natural condition
  - b) urban and suburban developmentall surface and subsurface waters

### 10.2 Groundwater Basin Investigations

Fig 10.2.1 sequence of activities preceding the start of a ground water management investigation

mgt. studies

- 1) Preliminary Examination
  - 2) Reconnaissance
  - 3) Feasibility \_\_\_ Fig 10.2.2
  - 4) Definite Project
- Data Collection and Fieldwork
    - Topographic Data
    - Geologic Data
    - Hydrologic Data
      - Surface Inflow / Outflow
      - Precipitation
      - Consumptive
      - Changes in Surface Storage
      - Changes in Soil Moisture
      - Changes in Groundwater Storage

- **Subsurface Inflow / Outflow**