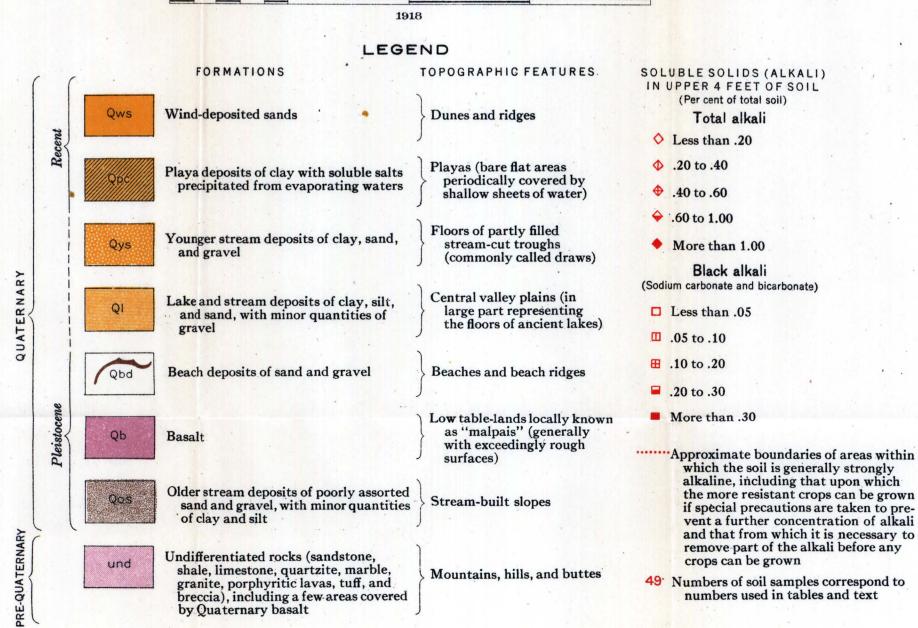


WATER-SUPPLY PAPER 422 PLATE!

U. S. GEOLOGICAL SURVEY



by Quaternary basalt