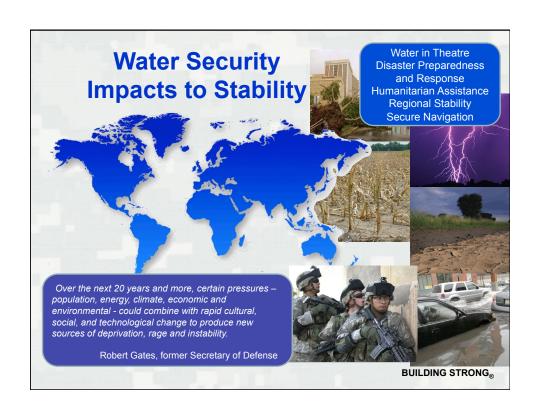


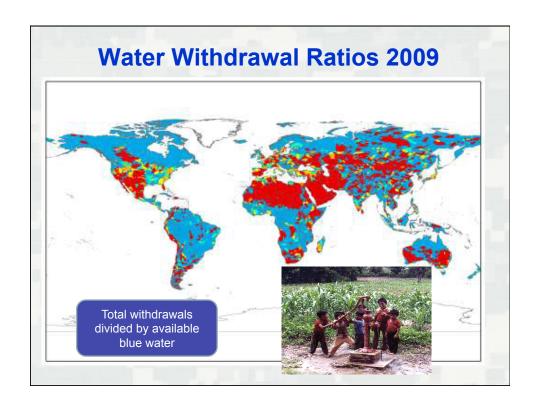
Water Security Concerns

- Is their adequate water available now and in the future?
- Is access to water or cost of water an issue that limits feasible use for populations?
- Is the water quality sufficient for intended uses?
- How is human activity impacting water quality?
- Are we conserving and reusing water to greatest extent practicable?



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"Thousands of Families in Zaranj are faced with Water Scarcity." Source: Sabir, A. S. 2008, RAWA (Revolutionary Association of the Women of Afghanistan) newsletter, 21 June.

Water Challenges in Zaranj City, Nimruz Province

Surface and groundwater brackish with microbial contamination

Sewage treatment Lacking

Substandard quality for water taste and smell

Population vulnerable to water-born disease

Source: Iranian Ministry of Energy, "Iran Power & Water" Special Edition, May 2010, pgs. 120-121.

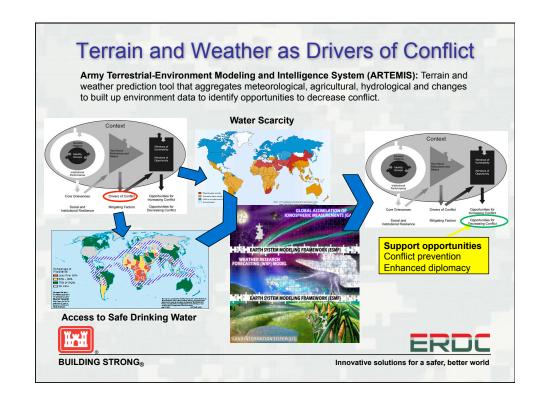
Public Health Challenges directly related to poor water quality: skin conditions, mouth infections, diarrhea.

60% patients in one local clinic made ill by drinking local water.

Source: Ghashtalai, H. 2003. "Thirsty Town Taps into Iran: Drought-stricken border region looks around for vital water supplies." In ReliefWeb, 13 November, AAR #81.

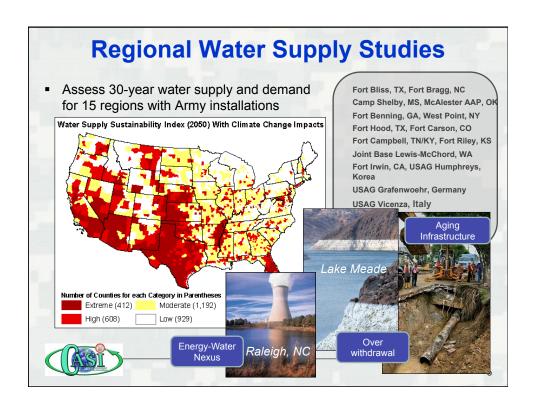


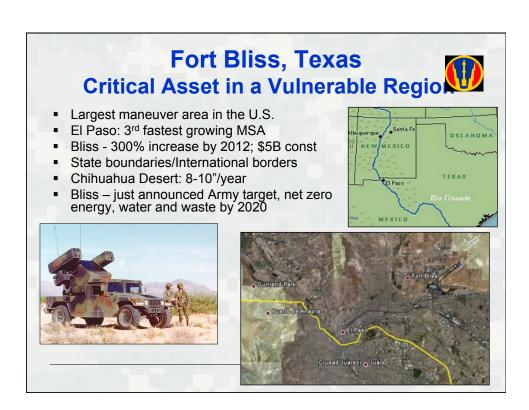
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2040 Water Supply Scenarios 2000 2040 1.Climate Change FORT BLISS REGION CLIMATE BASELINE CHANGE 2. Juarez Pumping River Flow at El Paso 386 288 (MGD) 3. Induced Legally Available Water to Recharge 49 49 EPWU (MGD) 4. Desalination Technologically Available 0 16 Brackish Water (MGD) 5. Worst Case Net Fresh Water Change -25 -87 to Area Aquifers (MGD) Fresh Water Stored in 1,263,557 471,703 Area Aquifers (MG) BUILDING STRONG®

