**CONTENTION ONE IS INHERENCY**

#### Water scarcity in the Colorado River Basin makes US-Mexico crisis inevitable

Nitze 2 (William A., Adjunct Fellow at the Center for Strategic and International Studies, “Meeting the Water Needs of the Border Region: A Growing Challenge for the United States and Mexico,” CSIS Americas Program, Policy Papers on the Americas, Vol. XIII, Study 1, April)

A more systematic … protecting critical ecosystems.

#### The current legal framework inhibits market transfers and encourages waste

Nitze 2 (William A., Adjunct Fellow at the Center for Strategic and International Studies, “Meeting the Water Needs of the Border Region: A Growing Challenge for the United States and Mexico,” CSIS Americas Program, Policy Papers on the Americas, Vol. XIII, Study 1, April)

A necessary condition … have been far better off.

#### We just amended our water treaty with Mexico – that non-uniques their disads but doesn’t solve scarcity

Stratfor 13 (“U.S., Mexico: The Decline of the Colorado River,” May 13, <http://www.stratfor.com/analysis/us-mexico-decline-colorado-river>)

An amendment to a … increases over the coming decades.

**CONTENTION TWO IS WATER WARS**

#### Water scarcity creates binational tensions that escalate to conflict

Van Schoik et al 4 (D. Rick, Director of the North American Center for Transborder Studies (NACTS) and the Arizona Director of the Southwest Consortium for Environmental Research and Policy (SCERP); Erik Lee; and Thomas McGuckin, “Border Water: Sovereignty, Scarcity, and Security in the U.S.-Mexican Binational Region,” Southwest Center for Environmental Research & Policy, <http://bva.colech.edu.mx/xmlui/bitstream/handle/123456789/HASHbe0618957d52c75d1dd699/ag071.pdf?sequence=3>)

Water is a first-tier … better on the U.S. side.

#### The plan’s modeled globally

Van Schoik et al 4 (D. Rick, Director of the North American Center for Transborder Studies (NACTS) and the Arizona Director of the Southwest Consortium for Environmental Research and Policy (SCERP); Erik Lee; and Thomas McGuckin, “Border Water: Sovereignty, Scarcity, and Security in the U.S.-Mexican Binational Region,” Southwest Center for Environmental Research & Policy, <http://bva.colech.edu.mx/xmlui/bitstream/handle/123456789/HASHbe0618957d52c75d1dd699/ag071.pdf?sequence=3>)

Security and water … for innovation and reinvention.

#### The potential for water wars is high internationally – only bilateral cooperation solves

Wolf 6 (Aaron T., Professor of Geography at Oregon State University, Ph.D. in environmental policy analysis, “Conflict and Coooperation Over Transboundary Waters,” Human Development Report, <http://hdr.undp.org/en/reports/global/hdr2006/papers/wolf_aaron.pdf>)

Water management is… source of tensions themselves.

#### Climate change and rising demand makes water wars inevitable now

Klare 13 (Michael T., Professor of Peace and World Security Studies at Hampshire College, author of Resource Wars, Blood and Oil, and Rising Powers, Shrinking Planet: The New Geopolitics of Energy, “Will water supplies provoke World War III?,” Salon, April 22, <http://www.salon.com/2013/04/22/could_water_supplies_provoke_world_war_iii_partner/>)

Brace yourself. You may not … into a resource-shock world.

#### Those conflicts go nuclear

Scheffran 9 (Jurgen, Professor at the Institute of Geography of University of Hamburg, “The Gathering Storm: Is Climate Change a Security Threat?,” Security Index, No. 2, Vol. 15, <http://gees.org/files/documentation/doc_Documen-03518.pdf>)

In a 2003 paper, Peter Schwartz and Doug Randall … society on a global scale.3

**CONTENTION THREE IS ALGAE BIOFUELS**

**Scenario One is Food**

#### Biofuel production is inevitable now. However, it’s all terrestrial biofuel, which causes food shortages

Pimentel et al 9 (David Pimentel, Alison Marklein, Megan A. Toth, Marissa N. Karpoff, Gillian S. Paul, Robert McCormack, Joanna Kyriazis, Tim Krueger, “Food Versus Biofuels: Environmental and Economic Costs,” Human Ecology, January 29, <http://www.com.uri.edu/gch104/pdf/pimentel_hum_ecol_foodvsbiofuels_2009.pdf>)

A rapidly growing world population … reduced as much as 15%.

#### However, algae biofuels won’t trade off with food production

Campbell 8 (Matthew N., “Biodiesel: Algae as a Renewable Source for Liquid Fuel,” Guelph Engineering Journal, Guelph University, <http://www.soe.uoguelph.ca/webfiles/gej/articles/GEJ_001-002-007_Campbell_Biodiesel_from_Algae.pdf>)

Space is the fourth requirement. … an astounding average of 98 g m-2 d-1 (Schneider, 2006; Pulz, 2007).

#### The plan solves water scarcity in the American Southwest, which is the key barrier to commercialization of algae biofuel

Subhadra 10 (Bobban G., Scientist at MIOX Corporation, Biomedical Research Scientist at University of New Mexico, “Water management policies for the algal biofuel sector in the southwestern United States,” Applied Energy, Department of Internal Medicine, University of New Mexico, November)

Algal biomass production … critical natural resources.

#### Only the Southwest can commercialize algae biofuels

Becker 12 (Jackson Jae, “Microalgae Biofuel Production in the Desert Southwest,” University of Wisconsin, <https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=1&ved=0CC4QFjAA&url=http%3A%2F%2Fwww.uwec.edu%2Fjolhm%2Fdesertsouthwest%2FPosters%2FAlgae%2520Biofuel%2520Production%2520in%2520the%2520United%2520States%2520Southwest.pdf&ei=eMfwUcuhG7PlyAHVxYGgDg&usg=AFQjCNFyNnN1B1jIRHTrtNB-AqKw9QZREg&bvm=bv.49784469,d.aWc>)

With the technology of photobioreactors … areas in the Southwest.

#### US limits on food production places the global food system at risk, shattering confidence and leading to conflict

Brown 11 (Lester R., Founder of the Worldwatch Institute, founder and president of the Earth Policy Institute, “The New Geopolitics of Food,” Foreign Policy, May/June)

But that is not happening. Instead… have started to unravel.

#### Conflicts over food will escalate to nuclear war

Klare 6 (Professor of Peace and World Security Studies at Hampshire College and author of Resource Wars and Blood and Oil, 2006 (Michael, “The Coming Resource Wars,” March 7, <http://www.tompaine.com/articles/2006/03/07/the_coming_resource_wars.php>)

Reid’s speech, delivered at the … involvement in these forms of conflict.

### Scenario Two is Air Power

#### Algae biofuels solve Air Force oil dependence

Danigole 9 (Mark S., Lt Col USAF, Biofuels: An Alternative to US Air Force Petroleum Fuel Dependency, <http://books.google.com/books?hl=en&lr=&id=DXdlUDQwROIC&oi=fnd&pg=PA22&dq=algae+biofuel+AND+air+force&ots=DGtnn_x5XL&sig=tbf92KJldHVViGHWOckkfWLU7K0#v=onepage&q=algae%20biofuel%20AND%20air%20force&f=false>)

There are limitations to terrestrial-based … alternative for USAF fuel needs.

#### Air power is key to Asian stability

Garretson 12 (Lieutenant Colonel in the US Air Force, 2012 (Peter, “Air Power Key to U.S. Asia Goals,” The Diplomat, May 19, <http://thediplomat.com/2012/05/19/air-power-key-to-u-s-asia-goals/>)

An institutional Air Force irregular … a percent of the USAF budget.

#### Asian stability is key to trade and prevents war

Clinton 11 (US Secretary of State, Hillary, “America’s Pacific Century,” Foreign Policy, November, <http://www.foreignpolicy.com/articles/2011/10/11/americas_pacific_century?page=full>)

As the war in Iraq winds down … advocate for universal human rights.

#### Air power deters adversaries

Dunlap 6 (Major General Charles J., deputy judge advocate general of the Air Force, “America’s asymmetric advantage,” Armed Forces Journal, <http://www.armedforcesjournal.com/2006/09/2009013/>)

So where does that leave us? If … of the U.S. is at risk.

#### Thus the plan: The United States federal government should engage the federal government of Mexico to establish a binational water bank in the Colorado River Basin.

**CONTENTION FOUR IS SOLVENCY**

#### A binational water bank solves scarcity and fosters cooperation

Van Schoik et al 4 (D. Rick, Director of the North American Center for Transborder Studies (NACTS) and the Arizona Director of the Southwest Consortium for Environmental Research and Policy (SCERP); Erik Lee; and Thomas McGuckin, “Border Water: Sovereignty, Scarcity, and Security in the U.S.-Mexican Binational Region,” Southwest Center for Environmental Research & Policy, <http://bva.colech.edu.mx/xmlui/bitstream/handle/123456789/HASHbe0618957d52c75d1dd699/ag071.pdf?sequence=3>)

A simple comparison of recent … and sustainable water for all.

#### Mexico will say “yes” – a small test bank means neither party has much to lose and paves the way for a broader market

Makridis 12 (Christos, Ph.D. student in the Management Science and Engineering program at Stanford University and a Non-Resident Fellow on State and Local Sustainable Security at the North American Center for Transborder Studies, “Do Water Markets Work? Transboundary Cooperation Along the Colorado River,” August 16, <https://people.stanford.edu/cmakridi/sites/default/files/Makridis%20-%20Transboundary%20Water%20Cooperation_2.pdf>)

First, defining property rights … comprehensiveness, and enforceability (Lee and Jouravlev, 1998).

#### Only markets solve pricing and allocation – there are no alternatives

Lee and Jouravlev 98 (Terence R. and Andrei S., Environment and Development Division of ECLAC, “Prices, Property and Markets in Water Allocation,” United Nations Economic Commission for Latin America and the Caribbean,” <http://www.cepal.cl/publicaciones/xml/4/4704/lcl1097i.pdf>)

After many years of discussions at international forums … needs for the nonmarket goods" (Lynne, 1988).

#### Markets defuse conflict

Lee and Jouravlev 98 (Terence R. and Andrei S., Environment and Development Division of ECLAC, “Prices, Property and Markets in Water Allocation,” United Nations Economic Commission for Latin America and the Caribbean,” <http://www.cepal.cl/publicaciones/xml/4/4704/lcl1097i.pdf>)

Many studies consider only … market opportunity within ecological limits" (Young, 1997).

#### Water markets improve access for the poor – this is proven internationally

Rosegrant et al 94 (Mark W., International Food Policy Research Institute, and Hans P. Binswanger, The World Bank, “Markets in Tradable Water Rights: Potential for Efficiency Gains in Developing Country Water Resource Allocation,” World Development, Vol. 22, No. 11, <http://portal.iri.columbia.edu/~caseyb/Water%20Market%20Papers/Markets_rosegrant.pdf>)

In addition to intersectoral equity, there … water, not discourage it.

#### Markets create incentives for innovation

Makridis 12 (Christos, Ph.D. student in the Management Science and Engineering program at Stanford University and a Non-Resident Fellow on State and Local Sustainable Security at the North American Center for Transborder Studies, “Do Water Markets Work? Transboundary Cooperation Along the Colorado River,” August 16, <https://people.stanford.edu/cmakridi/sites/default/files/Makridis%20-%20Transboundary%20Water%20Cooperation_2.pdf>)

Economic Growth: Gains in … lost due to increased water prices.