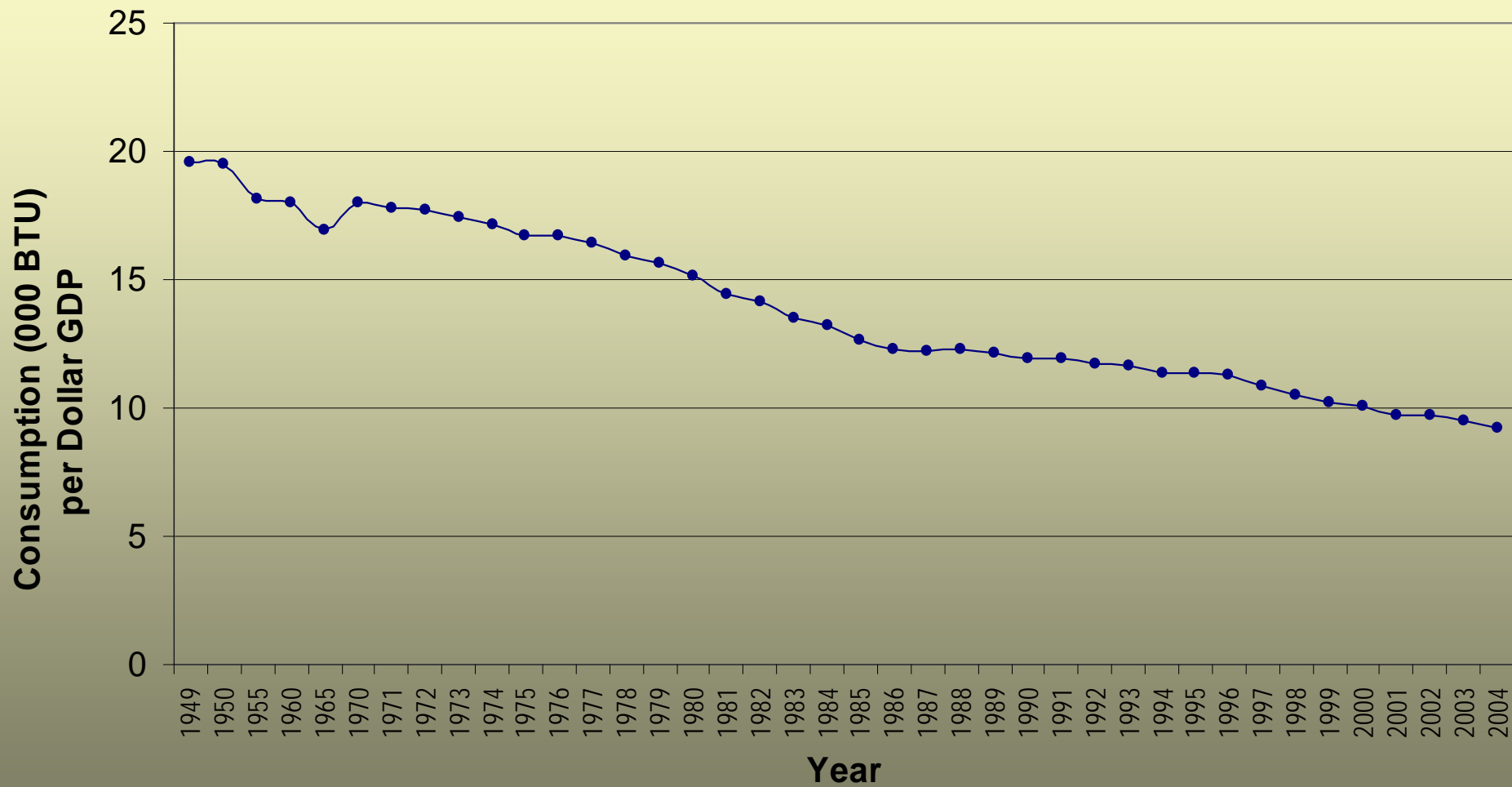


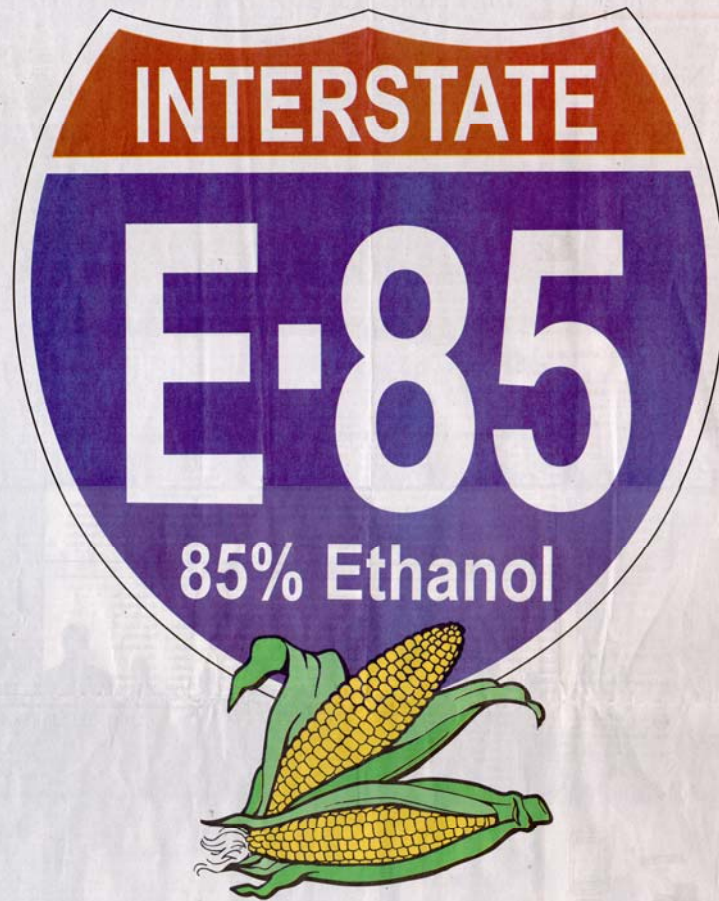
The Answer is Letter “E”
All of the Above

Robert Baumann
Center for Energy Studies
Louisiana State University
SLC Energy Committee
July 31, 2006

Energy Security



Source: EIA



**Announcing the Midwest Ethanol Corridor,
a brand new way to drive between Chicago and Kansas City,
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Report: Ethanol no cure-all

Sugar ethanol profits in doubt

**Ethanol supply
may exceed
demand soon**

Shell Mars Tension Leg Platform



Shell Mars Tension Leg Platform



Venice Port, Supply & Crew Bases



**Chevron Refinery
Pascagoula, MS**



Source: Chevron

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**Air Products Facility – Normal Day
New Orleans, Louisiana (Intracoastal Drive)**



Source: Air Products

© LSU Center for Energy Studies

**Air Products Facility –
During Hurricane Katrina
New Orleans, Louisiana**



Power Outages Generating Stations – Entergy Patterson



Source: Entergy

Henry Hub, September 25, 2005



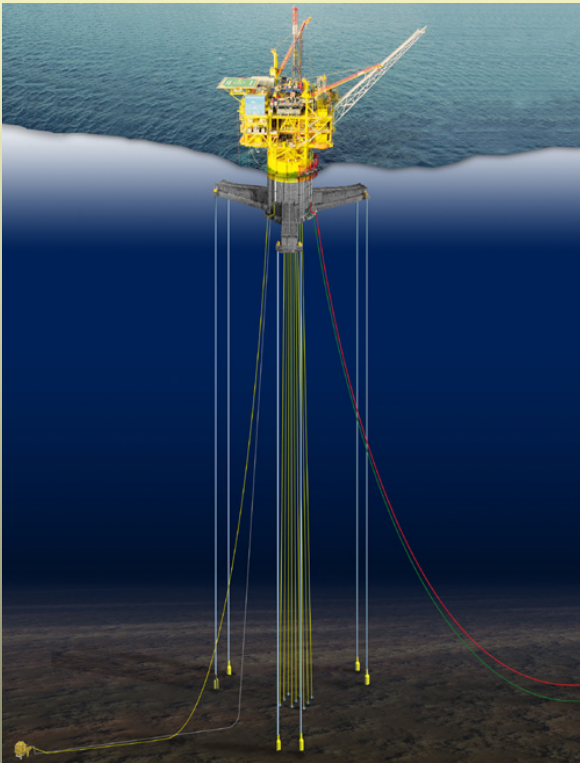
Source: LIOGA

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Energy Transmission

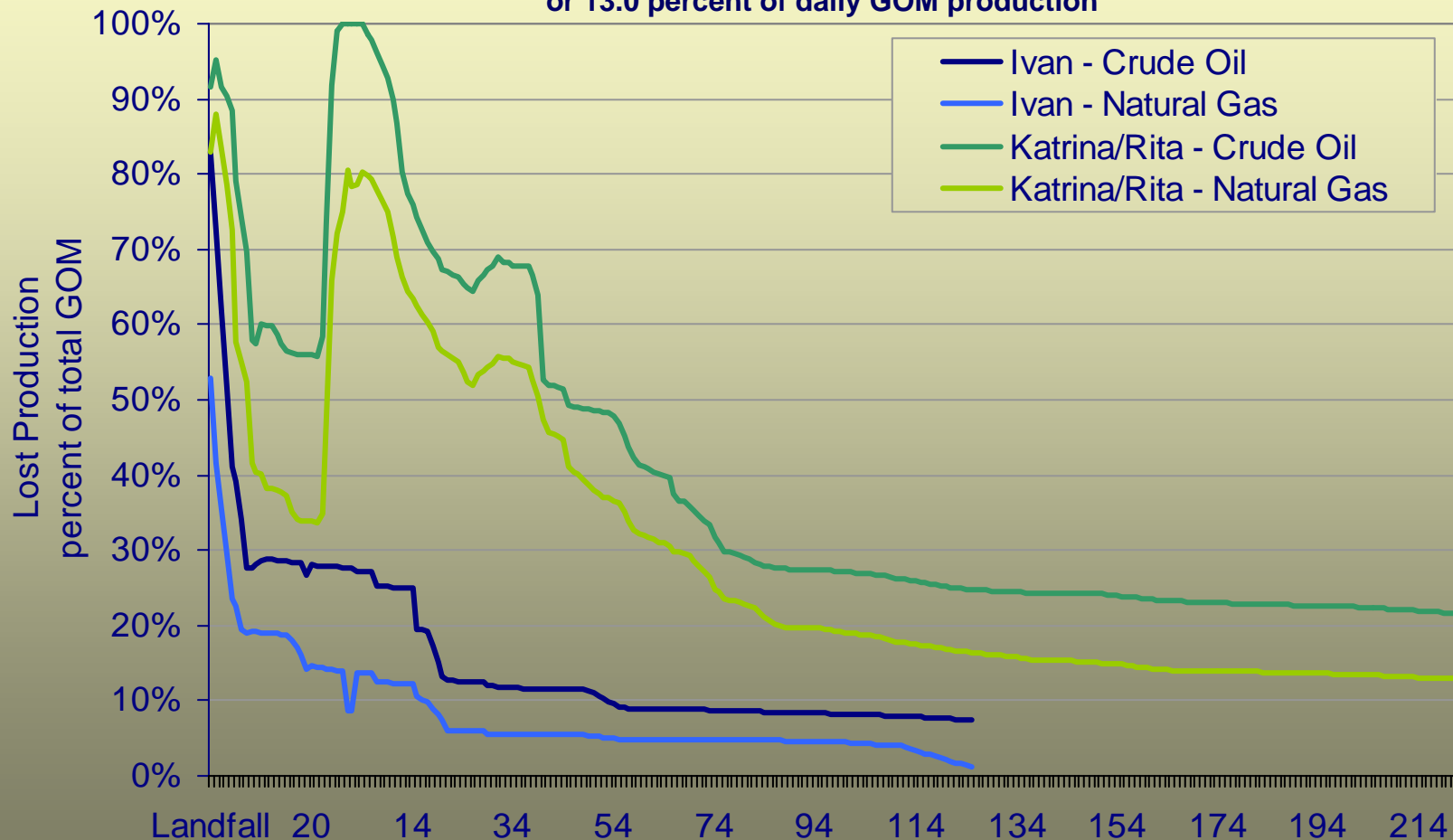


Chevron Typhoon TLP



Estimated Return of Existing Crude Oil and Natural Gas Production

As of May 3, 2006 shut in crude oil production was 324,445 barrels per day, or 21.6 percent of daily GOM production. Shut-in gas production was 1.295 bcf per day, or 13.0 percent of daily GOM production



Note: Shut-in statistics for Ivan were no longer reported after 150 days. The last shut-in statistics for Katrina and Rita were published on May 3, 2006 (the 221st day after Katrina made landfall).

Source: Minerals Management Service

Total Immediate Refinery Impact from 2005 Hurricanes

Hurricane Katrina

LA/MS/AL Gulf Coast Refiners
(reduced runs and shutdowns)
2,528 mbb/d/day
15% of US operating capacity

Port Arthur/Lake Charles
(reduced runs and supply loss)
775 mbb/d/day
5% of US operating capacity

Midwest
(reduced runs – supplied by Capline Pipeline)
1,628 mbb/d/day
10% of US operating capacity

Remaining US Operating Capacity
12,075 mbb/d/day
70% of US operating capacity

Total Refinery Impact
4,931 mbb/d/day
30% of US operating capacity

Hurricane Rita

Port Arthur/Lake Charles
(shutdowns and damaged facilities)
1,715 mbb/d/day
10% of US operating capacity

Houston/Texas City
(shutdowns and damaged facilities)
2,292 mbb/d
13.5% of US operating capacity

Corpus Christi
(shutdown and reduced runs)
706 mbb/d/day
4% of US operating capacity

Remaining US Operating Capacity
11,954 mbb/d/day
70% of US operating capacity

Midwest
(reduced runs from supply loss)
338 mbb/d/day
2% of US operating capacity

Total Refinery Impact
5,052 mbb/d/day
30% of US operating capacity

Status of Refineries Significantly Damaged by 2005 Hurricanes

| Company | Location | Capacity (Bbl/d) | Status (as of June 2006) |
|----------------|------------------|---------------------|--|
| Murphy Oil | Meraux, LA | 125,000 | operating at 100,000 Bbl/d, should be back at full rates by end of month |
| ConocoPhillips | Belle Chasse, LA | 247,000 | returned to normal operation in mid-April |
| BP | Texas City, TX | 437,000 | running at half capacity |