America's Barometer Spells Trouble

Dropping Mississippi River levels point to merchandising challenges ahead

Rv Diana Klemme

arciliaso de la Vega may have exaggerated. As historian of Hernando de Soto's explorations, in 1543 de la Vega described a great flood on the Mississippi River stretching "20 leagues on each side of the river," and lasting 80 days. Forty leagues is roughly 120 miles, and we can't know how de la Vega arrived at his number, but it was an

impressive flood by any measure. The Great

Flood of 1927 was estimated to "only" stretch

The Mississippi River is a 2,300-mile marvel of nature that drains 41% of the contiguous states in a basin covering more than 1.2 million square miles. When inundated from its tributaries, the river's flow rate at St. Louis has reached 800,000 to 1 million cubic feet per second (cfs), as in 1993, but during dry times has fallen as low as 25,000 to 30,000 cfs.

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The Mississippi is America's barometer — reflecting long-term conditions, as well as short-term events. And this season the river warned us we're in trouble. <u>Scientific American</u> noted in a November article: "Rising temperatures, persistent drought, and depleted aquifers on the southern Great Plains could set the stage for a disaster similar to the Dust Bowl of the 1930s..."

The extreme drought of 2012 slowed the Mighty Miss to 60,000 to 75,000 cfs at St. Louis by November, and dropped water levels to a record low at Memphis. This was even before the U.S. Army Corps of Engineers began its mandated winter reduction in the discharge rate out of the Gavins Point, SD, reservoir. Cutting the reservoir discharge from 37,500 cfs to 12,000 cfs further slowed the flow rate on the Missouri River and lowered the water level on the Mississippi below St. Louis.

By late-December, the water level south of St. Louis and north of where the Ohio River joins the Mississippi dropped low enough to expose dangerous rock "pinnacles" — and shut navigation altogether in that stretch. The Corps has begun to blast the pinnacles, but it's a complex

job and navigation will remain a day-to-day problem. America's barometer could turn into a "minefield" for harges

Soybean exports by late November 2012 had already hit a record high 600 million bushels, against record total sales of 1 billion bushels (for that early in the crop year) — sales that are largely expected to be shipped by late winter with a large percentage being shipped from the

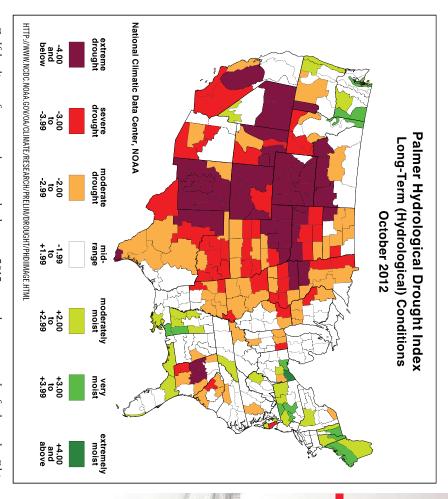
Merchandisers everywhere have a major interest in the water levels on the Mississippi. Too much water or too fast a flow and barges can't move properly and freight costs rise. Too little water and shippers have to reduce the load

End stocks = Usage (M bu) Production (M bu) Beginning stocks End stocks = Production (M bu) Acres Planted Beginning stocks 2013 Crop Scenarios Harvested Planted SOYBEANS Usage (M bu) Harvested 750 77500 97000 2,847 37.3 98.5% 140 663 10,913 125 76338 87300 90.0% 2,977 77500 140 794 12,144 87494 750 (3,000)98.5% 138.8 97000 39 90.2% 76338 3,168 750 41.5 76338 98.5% 77500 1,051 143.7 140 97000 (12,300)12,601 87688 90.4% 77500 88949 750 3,283 98.5% 1,737 140 13,787 97000 76338 155 91.7% 12,800) M bu M bu M bu M bu M bu 000 A 000 A 000 A 000 A bpa M bu bpa M

(assumes zero imports)

on barges to cut the draft level — how low the barges ride in the water — and often must cut the number of barges a single tow can handle. Inefficiency raises freight costs and that affects logistics and basis.

MERCHANDISERS' CORNER



costs change. One consolation: The problems in can impact basis far and wide as logistics and The short-term implications of river disruptions or falls quickly when river conditions change. is traded as a percentage of a base rate and rises week (10 to 50 million bushels). Barge freight bound barge counts can run 200 to 1,000/ run 35 to 60 million bushel/week, and south-Gulf loadings of corn, soybeans and wheat

> 2012 were the worst north of where the Ohio Memphis. the river could hit record lows as far south as River joins the Mississippi at Cairo, although

Here's what could occur:

- Barge lines can move south to the Ohio River or Lower Mississippi.
- Loadings would shift to those regions, which in turn supports basis levels there

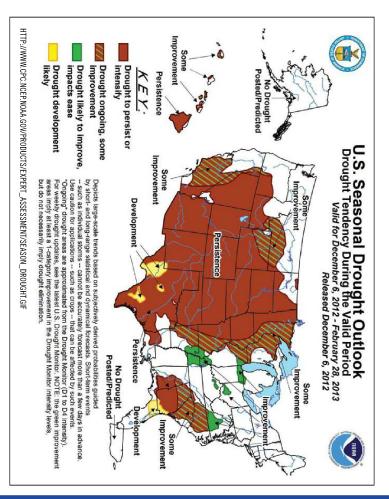








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- and weigh on upriver basis Load restrictions push barge freight higher
- Surrounding domestic markets can rise or weaken as loadings slow

Illinois River locations would see basis

- Exporters turn to unit or shuttle trains to source a larger percentage of the corn and fall as river basis changes.
- PNW, supporting PNW basis values. More Asian sales could be diverted to the support subterminal basis at origin soybeans for the Gulf, which in turn can
- raising questions about 2013. outlook showing it to persist through winter, most severe in decades, with NOAA's seasonal spring and summer. The Plains drought is the that could be followed by an equally challenging and the Plains, this will be a long, rough winter dry weather pattern of the western Corn Belt lems. But unless there's a dramatic shift in the depending on the scope and severity of the probto rise on the increased demand for trains. Secondary rail freight values should begin merchandising

ripples will continue

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The 2013 hard red wheat crop is already threatened. "Good/excellent" ratings were at record lows through November, with most of the Plains wheat rated 40% or more "poor/very poor." Fall ratings don't determine final wheat yields but they can raise red flags. Pasture ratings are even worse: Nebraska was last rated at 97% P/VP, with Kansas and Oklahoma at 79% and 69%. KC wheat futures are almost \$2 over July 13 corn, which sharply lowers the prospects for feeding wheat in the Plains in 2013.

Predicting the 2013 corn and soybean crops is pointless at this stage. But we can lay out a range of possibilities and consider a few ramifications. Let's assume a repeat of 2012 acres and go from there.

billion on soybeans) would be catastrophic and ing eastward with further cuts to yields from this exports. A fifth scenario could be considered: less wheat feeding, higher ethanol production and the scenarios assume usage will also increase, on from the drought. As production prospects rise, B and Scenario D assumes a reasonable recovery raises the yields slightly in the Plains vs. Scenario but good yields in most other states. Scenario C low yields in the Plains and western Corn Belt, spread problems similar to 2012. Scenario B uses remain at 97 million and that soybeans acres are year. A crop of less than 10 billion bushels (2.8 lower acres accompanied by the drought expandabout 77.5 million. Scenario A assumes wide-The tables (pg. 9) assume planted corn acres

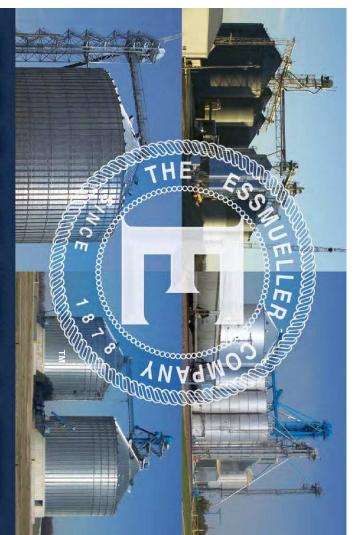
require even more extraordinary cuts to usage combined with imports to cushion the shortfalls. Bear in mind, these are scenarios — not predictions — and reality could turn out different.

Disappearance will be influenced by production in South America as well as in the United States. And how fast will usage recover even if U.S. crops *are* bigger? U.S. soybean disappearance was 3.2 to 3.3 billion bushels until this year, with corn at 12 to 13 billion bushels.

Ending stocks of corn could be able to recover somewhat by 2014; much would depend on how fast usage recovers. But with the continuing growth of soybean crushing in China, demand for U.S. soybeans could increase as fast as production recovers and keep U.S. stocks tight.

America's barometer may be warning us that we're heading into another Dust Bowl. But a shift to a persistent rainy period this winter would ease the river problems and improve 2013 crop prospects.

Until widespread rains materialize in the Plains and western Corn Belt, however, it's wise to consider the potential for another year of reduced production, high prices, margin calls, tight stocks, minimal carries in futures and river disruptions, with the resulting merchandising challenges. Make sure your credit line for hedging keeps pace with rising prices, keep margins wide on forward bids, and watch contracts and counterparty credit exposure on open purchase or sales. And watch the barometer!



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