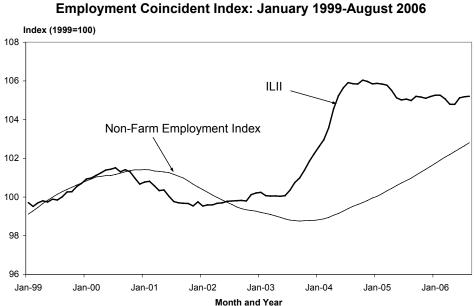
Iowa Leading Indicators Index August 2006

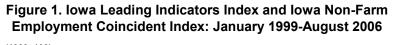
Iowa Department of Revenue Tax Research and Program Analysis Section

The Iowa Leading Indicators Index (ILII) experienced no change in August 2006. The Iowa non-farm employment coincident index increased by 0.2 percent in August, the 33rd consecutive monthly increase

The ILII's value in August remained at 105.2 (100=1999). The index increased a revised 0.1 percent in July and 0.3 percent in June after remaining flat in May and falling by 0.3 percent in April. During the six-month span through August, the ILII fell 0.1 percent (a -0.1 percent annual rate). The sixmonth diffusion index (value of 37.5) reflects three of eight components increasing and the other five decreasing over the last half year.

In August, five of the eight Iowa Leading Indicators components increased. The positive contributors were average weekly manufacturing hours, the Iowa stock market index, the agricultural futures price index, unemployment claims, and diesel fuel consumption. The negative contributors were building permits, the yield spread, and the new orders index.





Monthly Values	2006 March	April	May	June	July	August
ILII	105.1	104.8	104.8	105.1	105.2	105.2
Percentage Change	-0.2%	-0.3%	0.0%	0.3%	0.1%	0.0%
Diffusion Index ^a	37.5	31.3	43.8	75.0	62.5	62.5
Six-Month Values	Sept to	Oct to	Nov to	Dec to	Jan to	Feb to
	March	April	May	June	July	August
ILII	0.49/	0.4%	0.0%	0.40/	0.40/	0.4%
Percentage Change	-0.1%	-0.4%	-0.3%	-0.1%	-0.1%	-0.1%
Diffusion Index	25.0	25.0	37.5	50.0	37.5	37.5

Table 1. Iowa Leading Indicators Index: Six Month Overview

Source: Tax Research and Program Analysis Section, Iowa Department of Revenue, produced September 28, 2006. a. A diffusion index measures the proportion of components that are rising based on the actual changes (not the standardized contributions to the ILII). Components experiencing increases greater than 0.05 percent are assigned a value of 1.0, components that experience changes less than an absolute value of 0.05 percent are assigned a value of 0.5, components experiencing decreases greater than 0.05 percent are assigned a value

Table 2. Iowa Leading Indicators Components: Six Month Overview

		2006					
Component Series Monthly Values ^a		March	April	Мау	June	July	August
AFPI [♭]	1¢						
Hog Profits (cents per pound)	1	13.6	12.6	11.9	12.6	13.1	13.8
Corn (cents per bushel)		224.4	227.0	230.2	232.1	233.2	234.7
Soybeans (cents per bushel)		624.3	620.3	616.9	609.3	602.1	596.5
Cattle Profits (cents per pound)		3.2	2.4	1.7	1.5	1.8	2.2
lowa Stock Market Index (10=1984-86)	↑	50.17	50.53	50.94	51.25	51.63	52.14
Yield Spread (10-year less 3-month)	Ļ	0.09	0.27	0.27	0.19	0.01	-0.21
Building Permits	Ļ	1,357	1,296	1,279	1,274	1,236	1,196
Average Weekly Unemployment Claims ^d	1	3,171	3,199	3,214	3,210	3,201	3,162
Average Weekly Manufacturing Hours	↑	41.5	41.3	41.3	41.5	41.6	41.7
New Orders Index (percent)	Ļ	58.6	58.5	59.3	59.8	59.6	58.8
Diesel Fuel Consumption (mil gallons)	Ì.	54.59	54.54	54.67	55.02	55.25	55.32

Source: Tax Research and Program Analysis Section, Iowa Department of Revenue, produced September 28, 2006. a. For all component series except for the yield spread (the only national series) the values represent 12-month backward moving averages.

b. The Agricultural Futures Price Index is computed as the sum of the standardized symmetric percent changes in the four series, each weighted by the annual share of the commodity to Iowa cash farm income.

c. Arrows indicate the direction of the series' contribution to the ILII for the latest month.

d. Changes in unemployment claims are inverted when added to the ILII, thus a negative change in the series contributes positively to the index.

ILII Components

- <u>Average weekly manufacturing hours:</u> Weekly average of hours worked in the manufacturing sector in Iowa. Changes are calculated based on a 12-month moving average. During August 2006 this component contributed 0.06 percent to the ILII value as the average weekly hours worked increased.
- <u>Iowa stock market index</u>: Capitalization-weighted index of 29 Iowa-based or Iowaconcentrated publicly traded companies. Changes are calculated based on a 12-month moving average. During August 2006 this component contributed 0.06 percent to the ILII value as 12 of 29 companies gained value during the month.
- <u>Agricultural futures price index</u>: Composite measure of cattle, hogs, corn and soybeans futures prices weighted by the respective share of annual Iowa production value. Changes are calculated based on a 12-month moving average of the futures price series, where cattle and hogs series also incorporate estimates of break-even costs. During August 2006 this component contributed 0.04 percent to the ILII value as corn prices, hog profits, and cattle profits were up with only soybean prices experiencing a drop. In August the USDA released Iowa cash farm income data for 2005 and revised data for 2004 and 2003. These data were incorporated in the August numbers and in the historical revisions.
- <u>Average weekly unemployment claims</u>: Weekly average of initial claims for unemployment insurance in Iowa. Changes are calculated based on a 12-month moving average and are inverted when added to the ILII. During August 2006 this component contributed 0.04 percent to the ILII value as the number of initial claims fell.
- <u>Diesel fuel consumption</u>: Number of taxable gallons of diesel fuel sold in Iowa. Changes are calculated based on a 12-month moving average. During August 2006 this component contributed 0.02 percent to the ILII value as the number of gallons sold rose slightly.
- <u>New orders index</u>: Diffusion index measuring the share of purchasing managers in Iowa reporting increases in orders received for manufacturing output. Changes are calculated based on a 12-month moving average. During August 2006 this component contributed -0.04 percent to the ILII value as the new orders index fell.
- <u>Yield spread</u>: Difference between the yield on 10-year Treasury bonds and 3-month Treasury notes. During August 2006 this component contributed -0.05 percent to the ILII value as the 10-year rate fell while the 3-month rate rose; in August the spread was negative for the first time since January 2001.
- <u>Building permits</u>: Number of total permits issued in Iowa for the construction of residential housing units. Changes are calculated based on a 12-month moving average. During August 2006 this component contributed -0.10 percent to the ILII value as the number of permits dropped.

_eading Indicator Components	Standardization Factor				
Agricultural Futures Price Index	0.130				
Iowa Stock Market Index	0.056				
Yield Spread	0.236				
Building Permits	0.030				
Unemployment Claims	0.032				
Average Weekly Hours	0.302				
New Orders Index	0.053				
Diesel Fuel Consumption	0.161				

Table 3. ILII Components and Standardization Factors

Source: Tax Research and Program Analysis Section, Iowa Department of Revenue, produced July 24, 2006 The standardization factors are the inverse of the standard deviation of the month-to-month changes in each component over the January 1999 to June 2006 period. These factors equalize the volatility of the contribution from each component and are normalized to 1. The month-to-month changes are based on 12-month moving averages for all components except the yield spread, which is the only national series. The yield spread and new orders index changes are simple arithmetic changes; month-to-month changes for the rest of the components are computed as symmetric percentage changes. The factors are updated annually during the summer.

Comments

The Iowa Leading Indicators Index is designed to forecast the likely future direction of economic activity in the State of Iowa. The techniques used to build the ILII follow those used by The Conference Board to construct the national leading indicators index. A movement in the ILII for only one month does not produce a clear signal, rather it is necessary to consider the direction of the index over several consecutive months. The Conference Board considers a contraction signal in the national leading indicators index reliable when two conditions are met: 1. the index declines by at least two percent over a six month period (using an annual rate); and,

2. a majority of the individual components also decline over those six months.

The Iowa Non-Farm Employment Coincident Index measures the change in non-farm employment of all workers in the State of Iowa. Changes are based on a 12-month moving average of employment and are computed as symmetric percentage changes. The index is designed to represent the current state of economic activity in Iowa.

The Employment Index and the ILII are constructed to have a value of 100 in the year 1999.