

The Iowa Leading Indicators Index (ILII) increased to 107.5 (100=1999) in June from 107.1 in May (0.3 percent). The monthly diffusion index increased to 75.0 in June from a revised 62.5 in May. The Iowa nonfarm employment coincident index recorded a 0.00 percent change in June. The Iowa nonfarm employment coincident index has experienced decreases in eight of the last ten months. However, long term trends in the ILII suggest that nonfarm employment will increase over the next three to six months.

During the six-month span through June 2025, the ILII increased 1.1 percent (an annualized rate of 2.1 percent). The six-month diffusion index increased to 81.3 in June up from 62.5 in May. The ILII was constructed to signal economic turning points with two key metrics that when seen together are considered a signal of a coming contraction: a six-month annualized change in the index below -2.0 percent and a six-month diffusion index below 50.0. Five of the eight component indicators increased more than 0.05 percent over the last half-year: the agricultural futures profits index (AFPI), average manufacturing hours, diesel fuel consumption, the Iowa Stock Market index, the national yield spread, initial unemployment insurance claims, and residential building permits. The new orders index was the only component to decrease by more than 0.05 percent over the last six months, while the national yield spread increased by less than 0.05 percent.

Six of the eight components increased month-over-month in June 2025: Residential building permits, diesel fuel consumption, the Iowa Stock Market Index, the AFPI, average weekly manufacturing hours, and average weekly unemployment claims (inverted). The national yield spread and the new orders index were the two components that detracted from the Index.

Figure 1. Iowa Leading Indicators Index and Iowa Nonfarm Employment Coincident Index: January 1999 - June 2025

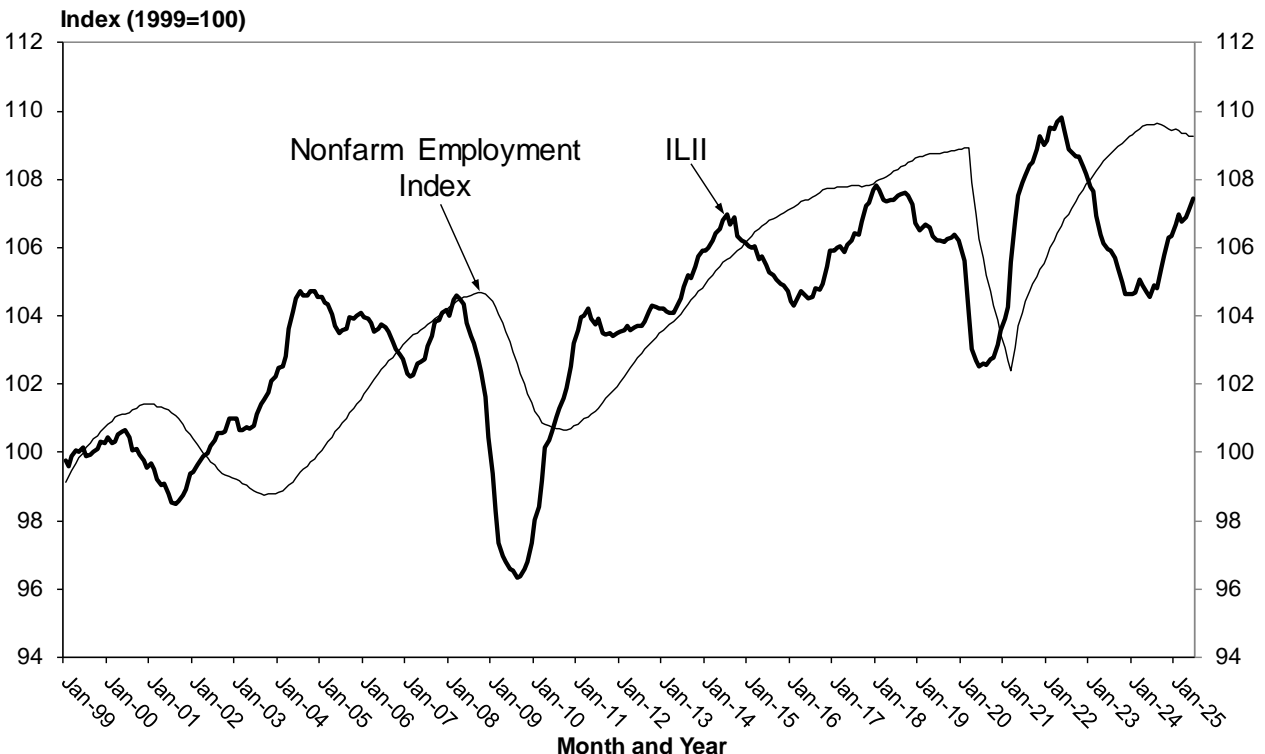


Table 1. Iowa Leading Indicators Index: Six Month Overview

Monthly Values	2025					
	Jan	Feb	Mar	Apr	May	June
ILII	106.7	107.0	106.8	106.9	107.1	107.5
Percentage Change ^a	0.3%	0.3%	-0.2%	0.1%	0.2%	0.3%
Diffusion Index ^b	62.5	62.5	50.0	56.3	62.5	75.0
Six-Month Values	Aug to Jan	Sep to Feb	Oct to Mar	Nov to Apr	Dec to May	Jan to Jun
	Jan	Feb	Mar	Apr	May	Jun
ILII						
Percentage Change	1.7%	2.1%	1.3%	1.0%	0.7%	1.1%
Annualized Percentage Change	3.4%	4.1%	2.6%	2.0%	1.5%	2.1%
Diffusion Index	62.5	62.5	62.5	62.5	62.5	81.3

Source: Tax Research Bureau, Iowa Department of Revenue, produced August 5, 2025.

a. Percentage changes in the ILII do not always equal changes in the level of the ILII due to rounding.

b. 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, and components experiencing decreases greater than 0.05 percent are assigned a value of 0.0.

Table 2. Iowa Leading Indicators Index Components: Six Month Overview

Component Series Monthly Values ^a		2025					
		Jan	Feb	Mar	Apr	May	Jun
AFPI ^b	↑ ^c						
Corn Profits (cents per bushel)		-27.6	-25.8	-26.1	-26.0	-26.3	-28.0
Soybean Profits (cents per bushel)		-107.7	-104.6	-106.8	-108.0	-110.5	-119.0
Hog Profits (cents per pound)		29.6	30.2	31.0	29.1	33.2	35.3
Cattle Profits (cents per pound)		10.5	9.5	8.6	7.0	8.2	7.6
Iowa Stock Market Index (10=1984-86)	↑	156.77	163.24	155.22	146.36	159.83	164.09
Yield Spread (10-year less 3-month)	↓	0.29	0.12	-0.06	-0.04	0.06	-0.04
Residential Building Permits	↑	1,019	1,039	1,069	1,092	1,101	1,153
Average Weekly Unemployment Claims ^d	↑	2,553	2,591	2,600	2,582	2,592	2,579
Average Weekly Manufacturing Hours	↑	40.97	40.99	41.07	41.18	41.15	41.18
New Orders Index (percent)	↓	48.5	48.4	49.0	48.4	48.6	48.4
Diesel Fuel Consumption (mil gallons)	↑	65.18	65.99	65.08	65.54	65.23	65.71

Source: Tax Research Bureau, Iowa Department of Revenue, produced August 5, 2025.

a. For all component series except for the yield spread and the Iowa stock market index, the values represent 12-month backward moving averages.

b. The agricultural futures profits index is computed as the sum of the standardized symmetric percent changes in the four series, each weighted by the commodity's annual share of Iowa cash farm income (updated September 12, 2024).

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

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

ILII Components

- **Residential building permits:** Number of total permits issued in Iowa for the construction of residential housing units. Changes are calculated based on a 12-month moving average. In June, permits were 1,688, up from 1,061 in June 2024. This component contributed 0.15 to the June 2025 ILII with the 12-month moving average increasing to 1,153 in June from 1,101 in May. June 2025 permits were 59.1 percent above June 2024, and 41.6 percent below the monthly historical average (1998-2024).
- **Diesel fuel consumption:** Number of taxable gallons of diesel fuel sold in Iowa. Changes are calculated based on a 12-month moving average. Diesel fuel consumption increased 8.7 percent between June 2024 and June 2025. The 12-month moving average increased to 65.71 million gallons in June from 65.23 million in May, contributing 0.12 to the ILII value.
- **Iowa stock market index:** Capitalization-weighted index of 27 Iowa-based or Iowa-concentrated publicly-traded companies. During June, 16 of the 27 companies gained value, and four of the nine financial-sector companies increased in value. With over half of the stocks experiencing gains, the index increased to 164.09 in June from 159.83 in May, contributing 0.04 to the ILII.
- **Agricultural futures profits index:** Composite measure of corn and soybean expected profits, measured as the 12-month moving average of the futures price less estimated breakeven costs, and cattle and hog expected profits, measured as the average of the crush margin for the next 12 months, weighted by the respective share of Iowa annual cash receipts averaged over the prior ten calendar years. During June 2025, this component contributed 0.04 to the ILII; expected profits increased in hog commodities, however live cattle as well as both crop commodities experienced expected profit decreases. Compared to last year, new crop corn prices were 4.6 percent lower while soybean prices were 8.9 percent lower. The June crush margin for cattle decreased 6.9 percent from May while the crush margin for hogs increased 6.4 percent from May.
- **Average weekly manufacturing hours:** Weekly average of hours worked in the manufacturing sector in Iowa. Changes are calculated based on a 12-month moving average. For June, this component contributed 0.02 to the ILII with the 12-month moving average increasing to 41.18 in June from 41.15 in May. In June, average hours were 41.1, less than a quarter hour below the historical monthly average (1996-2024).
- **Average weekly unemployment claims:** 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. This component contributed 0.01 to the ILII value, with the 12-month moving average of claims declining from 2,592 to 2,579. Unemployment claims were 6.3 percent below June 2024 claims, and 26.7 percent below average historical claims for June (1988-2024).
- **New orders index:** 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. In June, the new orders index increased to 51.9 from 50.2 in May. However, the 12-month moving average of the new orders index decreased to 48.4 from 48.6 in May, and detracted 0.02 from the ILII.
- **Yield spread:** Difference between the yield on 10-year Treasury bonds and 3-month Treasury bills. During June, the yield spread detracted from the ILII, and returned to inversion territory (below 0.00 percent), down from 0.06 percent in May to -0.04 in June. The long-term rate decreased by 4 basis points in June while the short-term rate increased by 6 basis points. For the month, the yield spread detracted 0.03 from the ILII value.

Table 3. ILII Components and Standardization Factors for FY 2024

Iowa Leading Indicator Index Components	Standardization Factor
Agricultural Futures Profits Index	0.035
Iowa Stock Market Index	0.016
Yield Spread	0.349
Residential Building Permits	0.032
Average Weekly Unemployment Claims	0.014
Average Weekly Manufacturing Hours	0.325
New Orders Index	0.064
Diesel Fuel Consumption	0.166

Source: Tax Research Bureau, Iowa Department of Revenue, produced September 12, 2024

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 2024 period. These factors equalize the volatility of the contribution from each component and are normalized to one. The month-to-month changes are based on 12-month backward moving averages for all components except the agricultural futures profits index, the Iowa stock market index, and yield spread. 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 August.

Comments

The Iowa Leading Indicators Index (ILII) is designed to forecast the 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 Economics Index (LEI) prior to the 2001 revisions. A one-month movement in such an index does not produce a clear signal, rather it is necessary to consider the direction of the index over several consecutive months. A contraction signal in the ILII is considered reliable when two conditions are met: 1. The index declines by at least two percent over a six-month period (using an annualized rate); and, 2. A majority of the individual components decline over those six months (the six-month diffusion index less than 50.0).

The Iowa nonfarm employment coincident index measures the change in non-seasonally adjusted, total nonfarm employment 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 a representation of overall economic activity in Iowa.

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