

# PPI Predictor - Forecast Report

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## 1. Historical Summary

Data period (months)	238
Avg MoM change	0.2103%
Std MoM change	1.2445%
Positive months	60.8%
Latest PPI level	261.36
Latest YoY change	3.22%

## 2. Regression Point Estimates

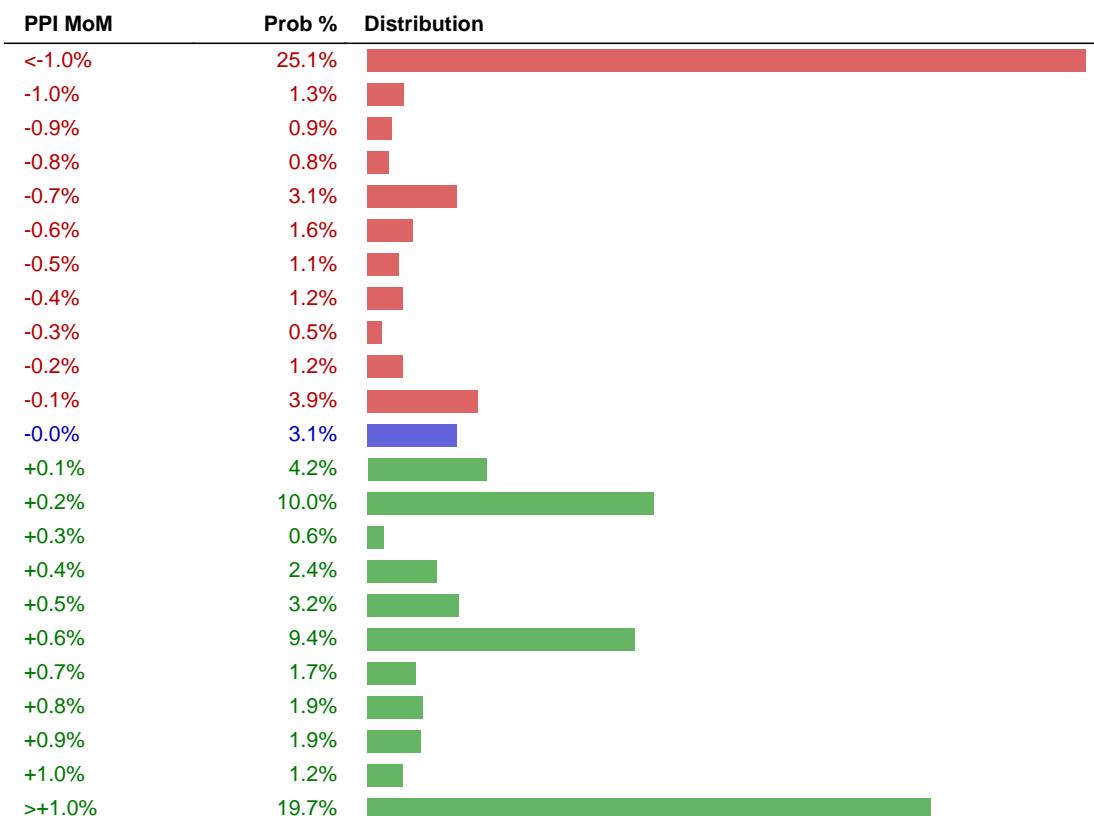
Market Expected MoM: +0.30%

Gradient Boosting	-0.1401%
Random Forest	-0.0417%
Ridge	-2.1981%
Ensemble	-0.3938%
90% Confidence Range	[-2.0292%, +1.2415%]

Model predicts LOWER than expected (-0.694pp below consensus).

## 3. Probability Distribution (Classification)

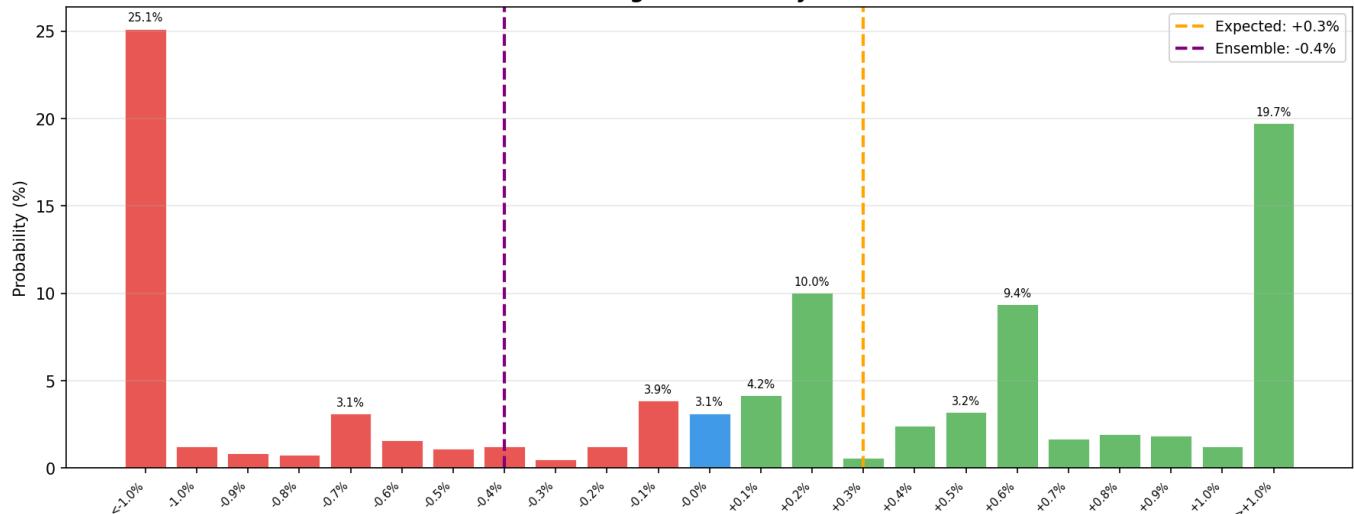
Probability that PPI MoM change falls in each 0.1% bin:



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## PPI MoM Change - Probability Distribution



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## 4. Model Performance Metrics

### Regression Models:

Gradient Boosting - MAE: 0.6512 | RMSE: 0.7784 | R2: -0.0841

Random Forest - MAE: 0.6540 | RMSE: 0.8073 | R2: -0.1658

Ridge - MAE: 1.9442 | RMSE: 2.2628 | R2: -8.1605

### Classification Models:

Gb Classifier - Accuracy: 0.0833 | Log Loss: 5.7951

Rf Classifier - Accuracy: 0.1111 | Log Loss: 3.1204