

1. Data Overview

Company:	Penn Entertainment (PENN)
CIK:	0000921738
Analysis Period:	2016-02-01 to 2026-01-30 (~10.0 years)
Trading Days:	2,514
Latest Close:	\$12.84

2. Methodology

Risk Metrics (CFA/Basel Standards):

- **Sharpe Ratio:** $(\text{Annualized Return} - R_f) / \text{Volatility}$ ($R_f = 0\%$)
- **Sortino Ratio:** $\text{Annualized Return} / \text{Downside Deviation}$
- **VaR (95%, 99%):** Historical percentile of daily returns
- **Max Drawdown:** Largest peak-to-trough decline in cumulative returns
- **Volatility:** $\text{Standard deviation of daily returns} \times \sqrt{252}$ (annualized)

3. Risk Metrics Summary

Metric	Value	Interpretation
Total Return (10.0Y)	-8.7%	Cumulative appreciation
Annualized Return	-0.9%	Geometric mean annual
Volatility	60.4%	Annualized std dev
Sharpe Ratio	-0.02	Risk-adjusted return
Sortino Ratio	-0.02	Downside risk-adjusted
Max Drawdown	-90.6%	Peak-to-trough

4. Return Distribution

Metric	Value
Positive Days	48.7%
Best Day	+34.80%
Worst Day	-44.80%
VaR (95%)	-4.83%
VaR (99%)	-8.92%

5. SEC EDGAR Financial Data

Metric	Value	Period End	Form	Accession
Revenue	\$6.6B	2024-12-31	10-K	0000921738-25-000008
Net Income	\$-311.5M	2024-12-31	10-K	0000921738-25-000008
Total Assets	\$15.3B	2024-12-31	10-K	0000921738-25-000008
Total Liabilities	\$12.4B	2024-12-31	10-K	0000921738-25-000008
Stockholders Equity	\$2.9B	2024-12-31	10-K	0000921738-25-000008
Operating Income	\$72.5M	2024-12-31	10-K	0000921738-25-000008
Cash	\$706.6M	2024-12-31	10-K	0000921738-25-000008
Eps	\$-2.05	2024-12-31	10-K	0000921738-25-000008

Data Sources (100% Verifiable - NO SIMULATION):

- **SEC EDGAR:** <https://data.sec.gov/api/xbrl/companyfacts/CIK0000921738.json>
- **Stock Data:** Yahoo Finance (PENN)

Anyone can verify these numbers by querying the APIs directly.

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Data Source: SEC EDGAR XBRL, Yahoo Finance | Report: PENN_iGaming

Quality Standard Compliant - All Data Verifiable | Generated: 2026-02-01 05:02