

# VecViz VIX & Rates 5d Fwd Signal Report



2026-06-13

**NOT INVESTMENT ADVICE OR RECOMMENDATIONS. SEE VECVIZ'S TERMS AND CONDITIONS FOR DETAIL AND RELATED DISCLOSURES.**

We present current 5d directional signals for the VIX and select treasury yields, and their associated out-of-sample performance, below. The signals are based on Random Forest machine learning models of VecViz model inputs and outputs since 2/1/2022. An All-Tickers RF is fit on the 2022-01-31 → 2024-04-30 in-sample window and the top 16 features are selected from a 168-column universe (per-day mean, cross-ticker dispersion, and the 3-day MA / 10-day MA ratio of each base column compete on equal footing). The **All-Tickers walk-forward** refits a Random Forest every 6 months on the entire VecViz ticker universe (per-day means and cross-ticker dispersion); the **Winner-Sector walk-forward**, at each 6-month boundary, runs a sector tournament and trains its next-window model on the winner sector's tickers only. Both walk-forwards are locked to the 16 selected features (the per-target list is in the appendix). See the target detail sections for the exact numeric definitions of "Flat", etc. Note that "Flat" for yields is typically a +/- 5 to 10bp range.

**Jump to:** [VIX](#) · [USTY\\_2yr](#) · [USTY\\_10yr](#) · [Methodology Notes](#)

## Current 5d Forward Forecasts

Target	Latest Date	Level	All-Tickers	Winner Sector	Winner Pred.	Combined
VIX	2026-06-12	17.68	Higher	Metals Ind.	Lower	Flat
USTY_2yr	2026-06-12	4.09	Flat	Cons. Disc	Lower	Lower
USTY_10yr	2026-06-12	4.49	Flat	Healthcare	Flat	Flat

## Performance Since Start of Test Period on 4/30/2024

Target	All-Tick Acc	Winner Acc	Combined Acc	All-Tick DirAcc	Winner DirAcc	Combined DirAcc
VIX	44.00%	41.71%	42.48%	65.70%	60.83%	66.78%
USTY_2yr	32.57%	37.90%	40.19%	46.41%	70.56%	66.87%
USTY_10yr	35.05%	38.48%	41.52%	50.67%	69.63%	61.90%



# VIX

## Tercile Bands for VIX (fold trained through 2026-06-04)

Tercile	5-Day Forward Change ( $\Delta$ )
Lower (T0)	$-22.2100 < \Delta < -0.9700$
Flat (T1)	$-0.9700 < \Delta < +0.6600$
Higher (T2)	$+0.6600 < \Delta < +30.5600$

### Latest Signals

- Most recent ModelDate: 2026-06-12
- VIX level on that date: 17.6800
- All-Ticker prediction: Higher (T2)
- Current Winner Sector: Metals Ind.
- Winner-Sector prediction: Lower (T0)
- Combined (All x Winner) prediction: Flat (T1)

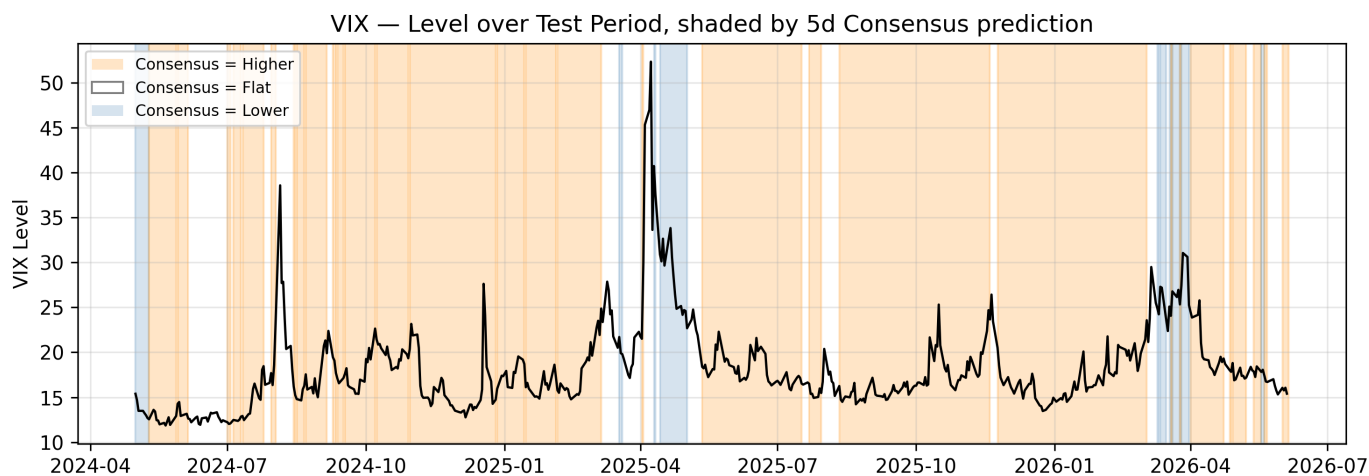


Figure 1: VIX — daily level over the test period; shading reflects each ModelDate's Combined consensus prediction (orange = Higher, no shade = Flat, blue = Lower).

### Winner-Sector History (per 6-month walk-forward window)

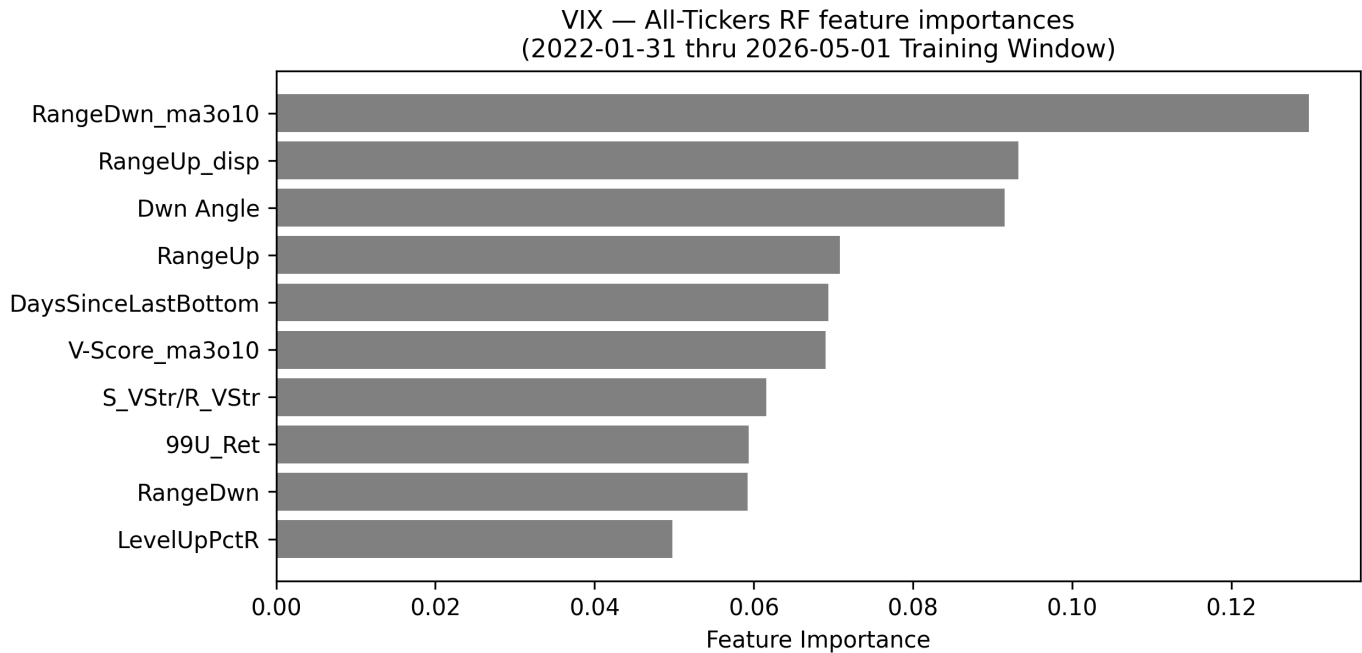
	Window Start	Window End	Winner Sector	Pool Size
0	2024-05-01	2024-10-31	Small Cap	83862
1	2024-11-01	2025-04-30	Mag7	102514
2	2025-05-01	2025-10-31	Banks	120131
3	2025-11-01	2026-04-30	Healthcare	138466
4	2026-05-01	2026-06-12	Metals Ind.	155993

## Winner-Sector Tickers — Metals Ind. (9 tickers)

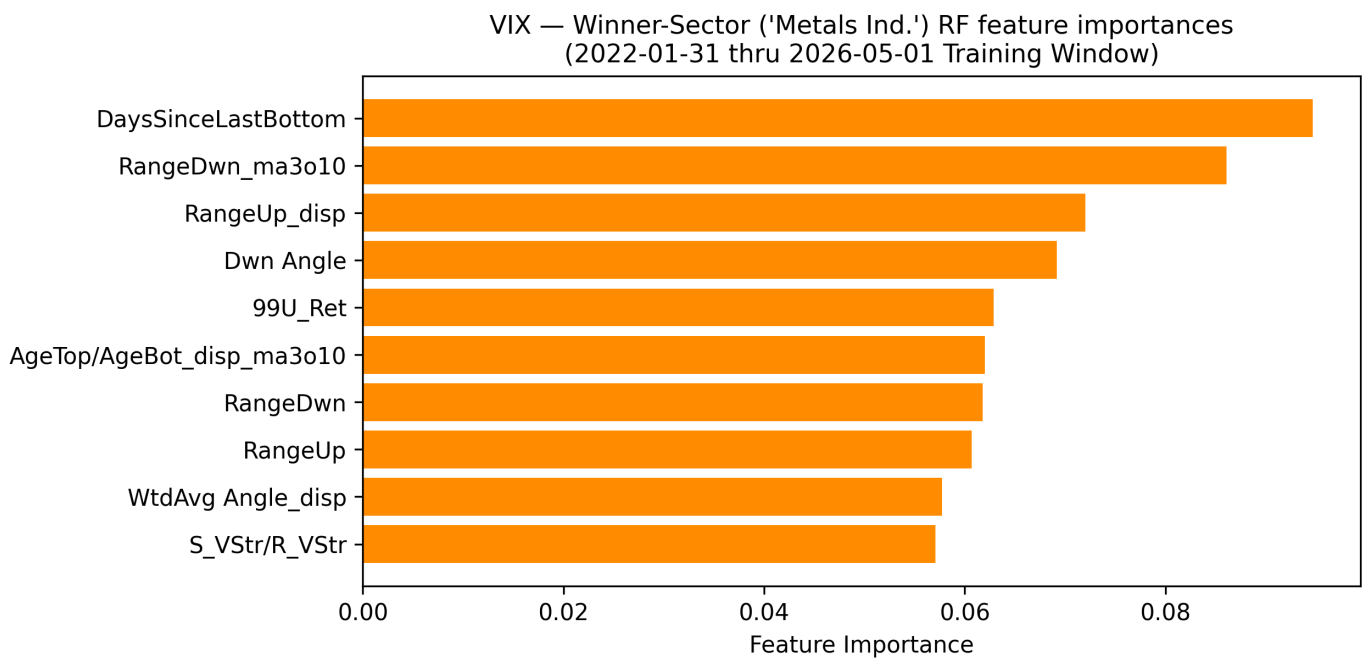
AA, BHP, CLF, CSTM, FCX, FSUGY, KALU, MOS, RIO

## Top Features — models used for prediction on 2026-06-12

### All-Tickers model



### Winner-Sector model — Metals Ind.



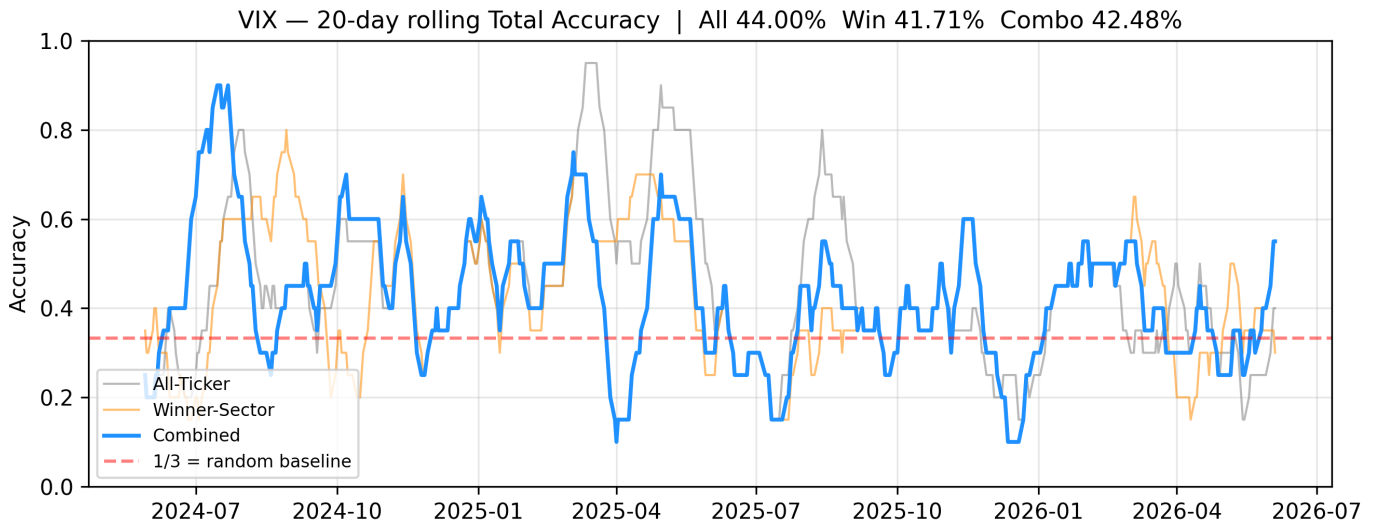


Figure 2: 20-day rolling 5d Forward Total Accuracy (exact Higher / Flat / Lower tercile match) for All-Ticker, Winner-Sector, and Combined classifiers.

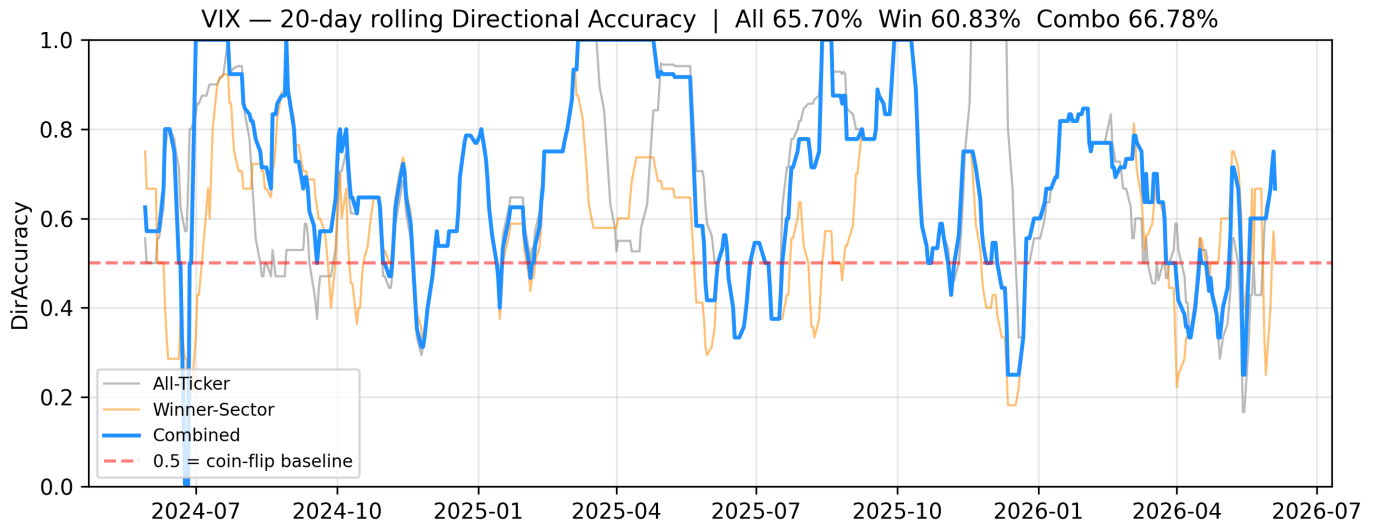


Figure 3: 20-day rolling 5d Forward Directional Accuracy (non-Flat predictions and outcomes) for All-Ticker, Winner-Sector, and Combined classifiers.

# USTY\_2yr

## Tercile Bands for USTY\_2yr (fold trained through 2026-06-04)

Tercile	5-Day Forward Change ( $\Delta$ )
Lower (T0)	$-1.1200 < \Delta < -0.0400$
Flat (T1)	$-0.0400 < \Delta < +0.0700$
Higher (T2)	$+0.0700 < \Delta < +0.7000$

### Latest Signals

- Most recent ModelDate: 2026-06-12
- USTY\_2yr level on that date: 4.0900
- All-Ticker prediction: Flat (T1)
- Current Winner Sector: Cons. Disc
- Winner-Sector prediction: Lower (T0)
- Combined (All x Winner) prediction: Lower (T0)

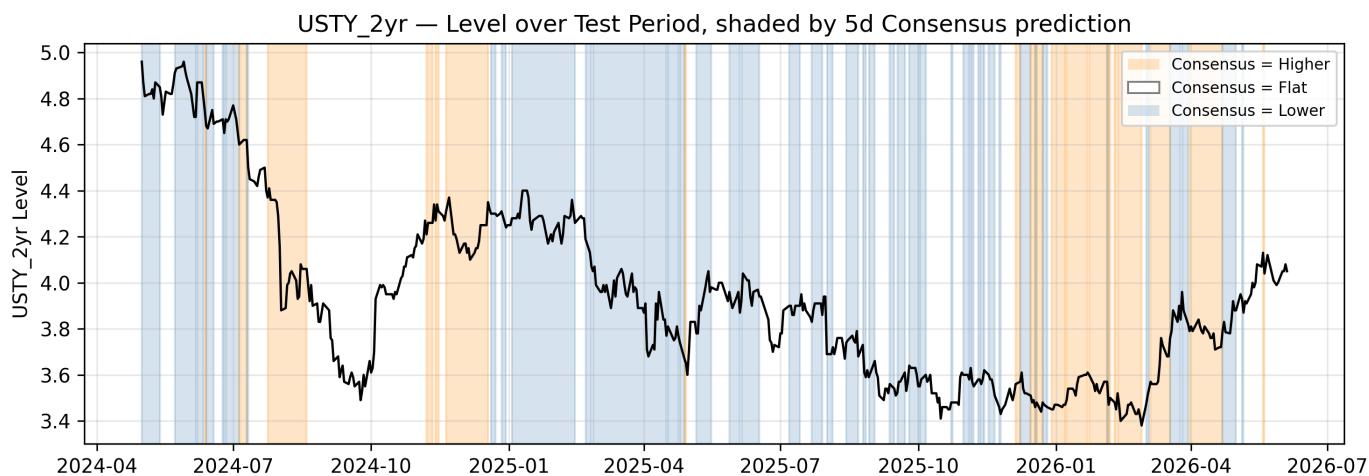


Figure 4: USTY\_2yr — daily level over the test period; shading reflects each ModelDate's Combined consensus prediction (orange = Higher, no shade = Flat, blue = Lower).

### Winner-Sector History (per 6-month walk-forward window)

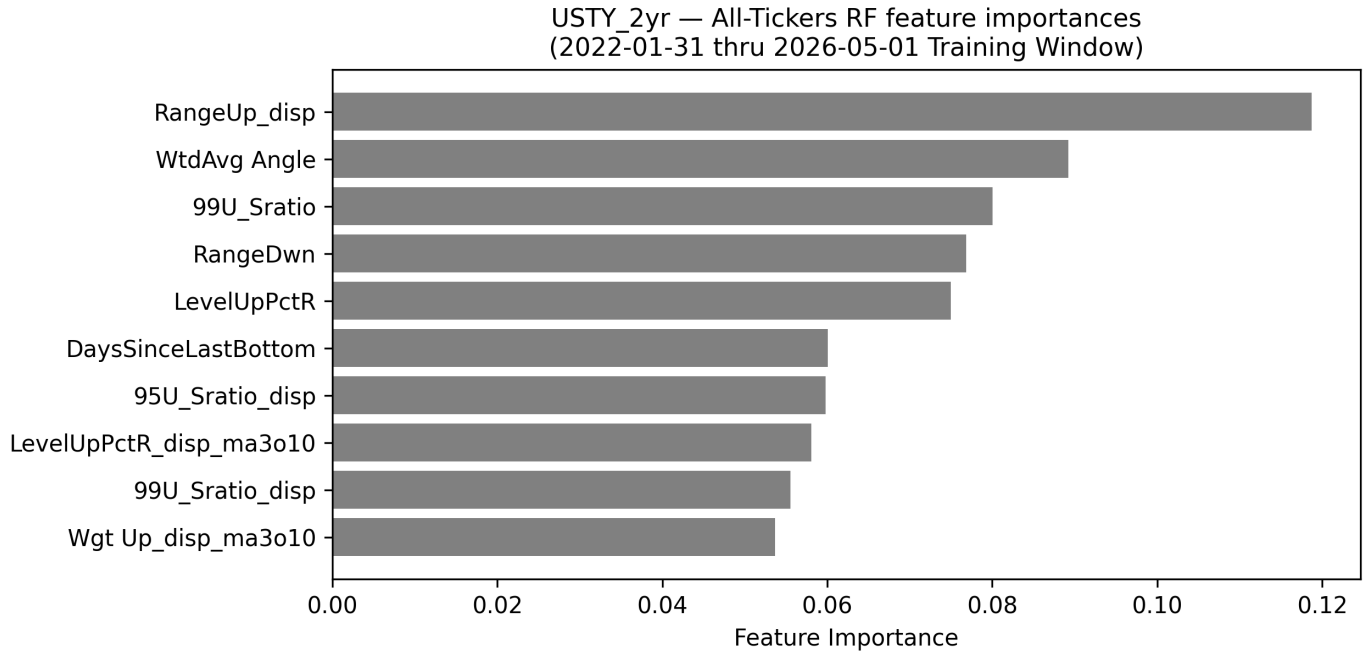
	Window Start	Window End	Winner Sector	Pool Size
0	2024-05-01	2024-10-31	Cons. Staples	83862
1	2024-11-01	2025-04-30	Cons. Disc	102514
2	2025-05-01	2025-10-31	Crypto/Meme	120131
3	2025-11-01	2026-04-30	Homebuilders	138466
4	2026-05-01	2026-06-12	Cons. Disc	155993

**Winner-Sector Tickers — Cons. Disc (18 tickers)**

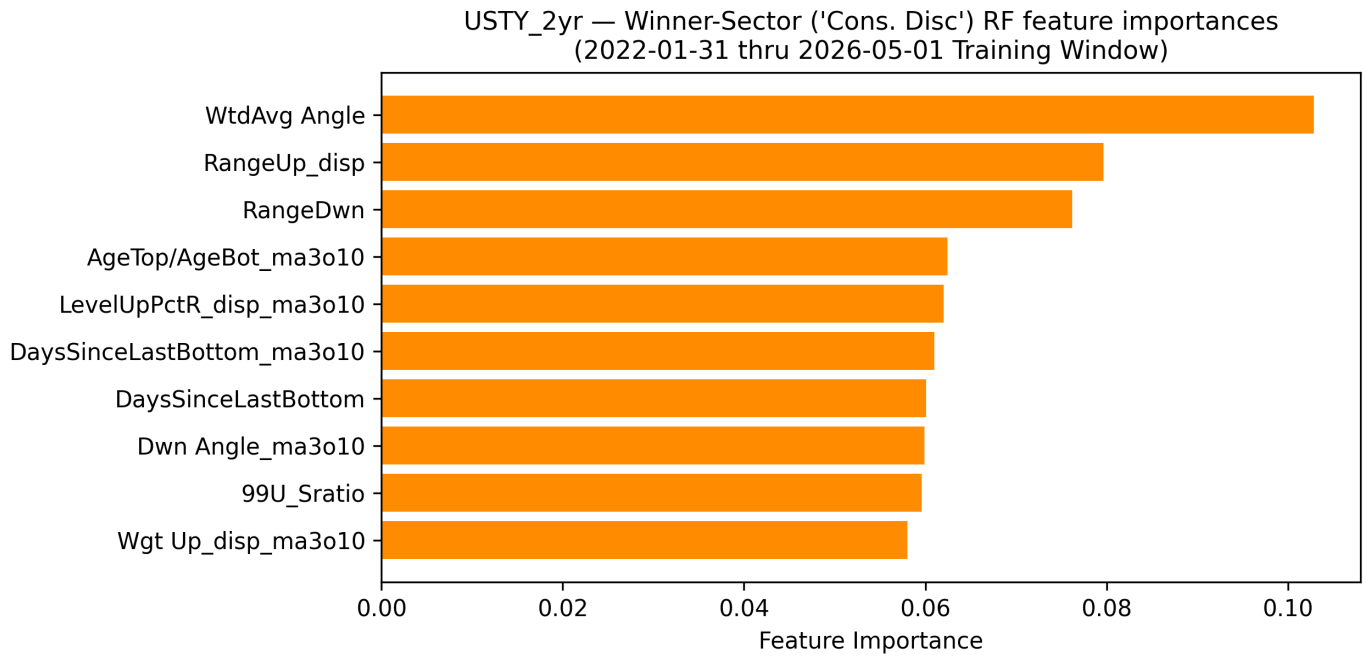
AAP, AZO, BBY, CMG, CZR, DHI, EXPE, F, HD, HLT, LEN, LVS, ORLY, PHM, SBUX, UAA, VFC, WYNN

**Top Features — models used for prediction on 2026-06-12**

**All-Tickers model**



**Winner-Sector model — Cons. Disc**



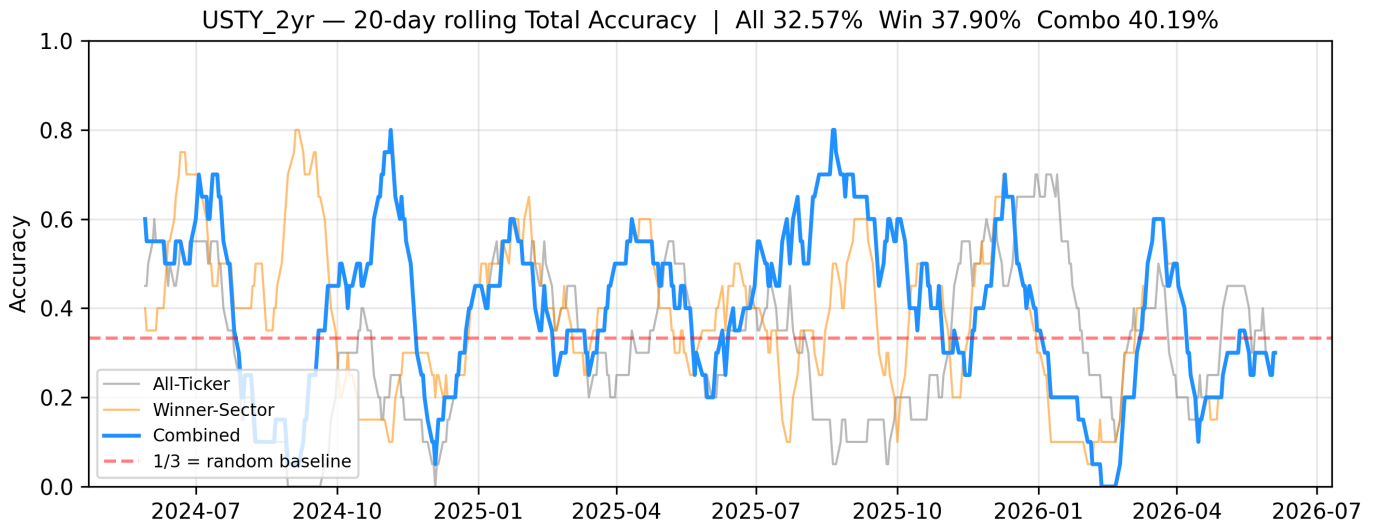


Figure 5: 20-day rolling 5d Forward Total Accuracy (exact Higher / Flat / Lower tercile match) for All-Ticker, Winner-Sector, and Combined classifiers.

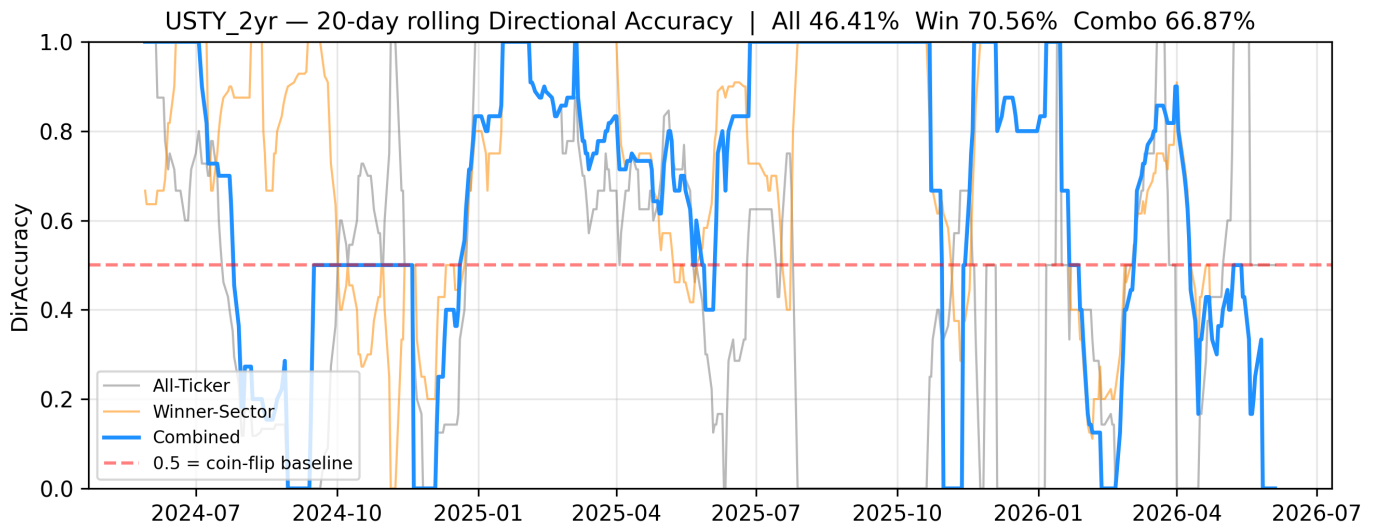


Figure 6: 20-day rolling 5d Forward Directional Accuracy (non-Flat predictions and outcomes) for All-Ticker, Winner-Sector, and Combined classifiers.

# USTY\_10yr

## Tercile Bands for USTY\_10yr (fold trained through 2026-06-04)

Tercile	5-Day Forward Change ( $\Delta$ )
Lower (T0)	$-0.4700 < \Delta < -0.0400$
Flat (T1)	$-0.0400 < \Delta < +0.0700$
Higher (T2)	$+0.0700 < \Delta < +0.5100$

### Latest Signals

- Most recent ModelDate: 2026-06-12
- USTY\_10yr level on that date: 4.4900
- All-Ticker prediction: Flat (T1)
- Current Winner Sector: Healthcare
- Winner-Sector prediction: Flat (T1)
- Combined (All x Winner) prediction: Flat (T1)

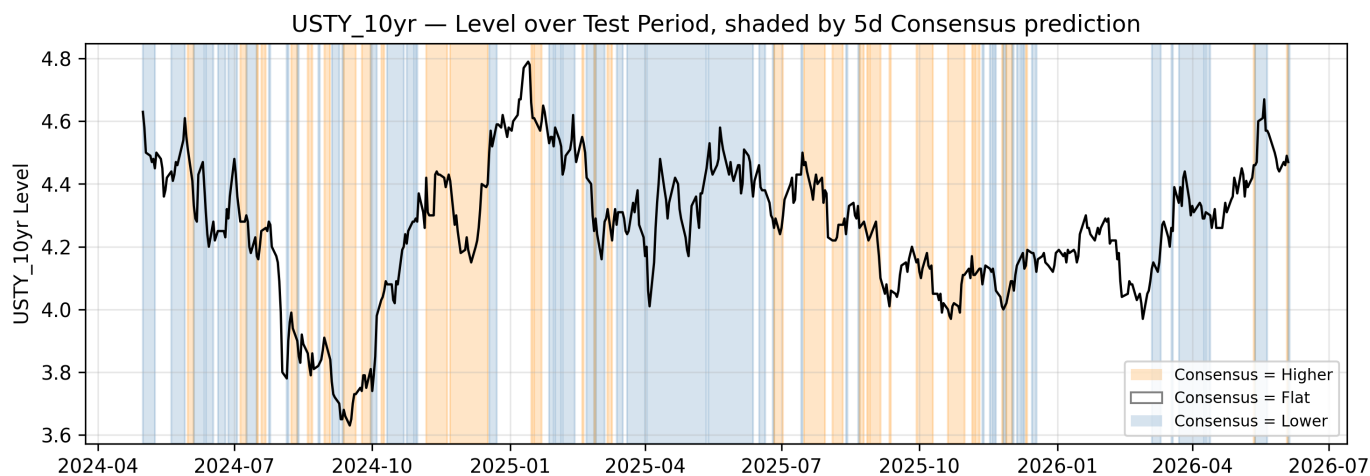


Figure 7: USTY\_10yr — daily level over the test period; shading reflects each ModelDate’s Combined consensus prediction (orange = Higher, no shade = Flat, blue = Lower).

### Winner-Sector History (per 6-month walk-forward window)

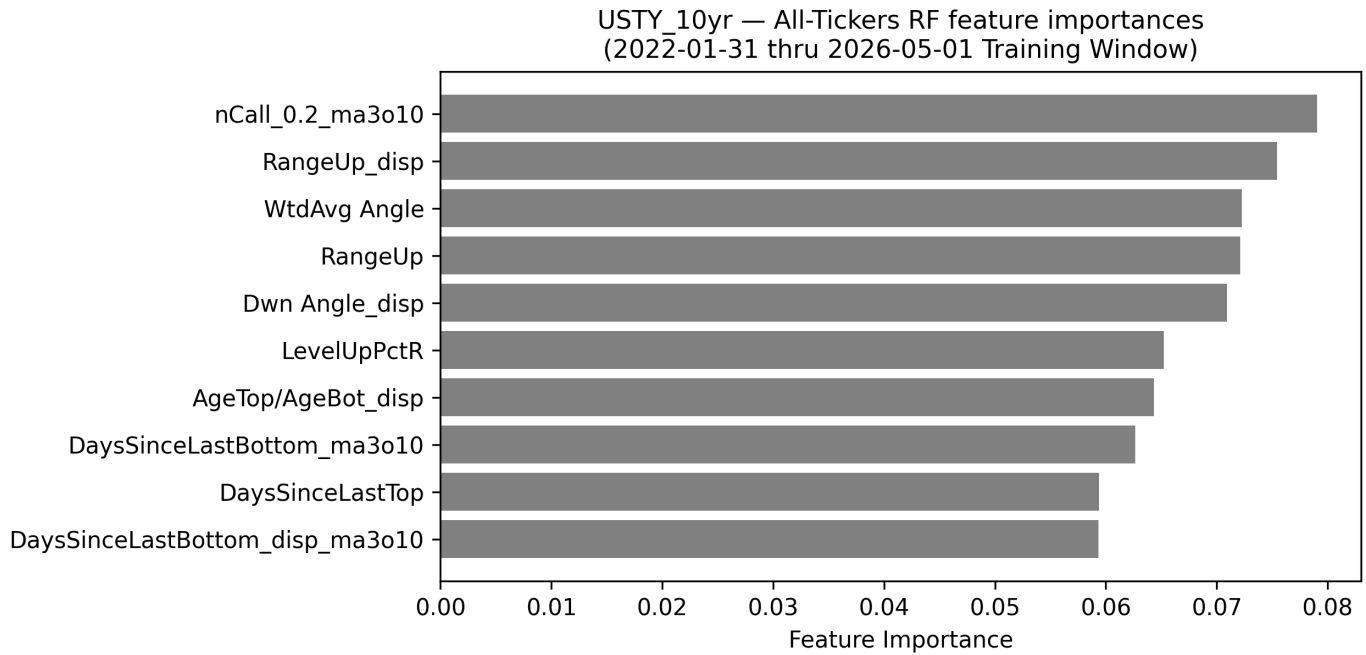
	Window Start	Window End	Winner Sector	Pool Size
0	2024-05-01	2024-10-31	Cons. Disc	83862
1	2024-11-01	2025-04-30	Cons. Disc	102514
2	2025-05-01	2025-10-31	Healthcare	120131
3	2025-11-01	2026-04-30	Homebuilders	138466
4	2026-05-01	2026-06-12	Healthcare	155993

## Winner-Sector Tickers — Healthcare (25 tickers)

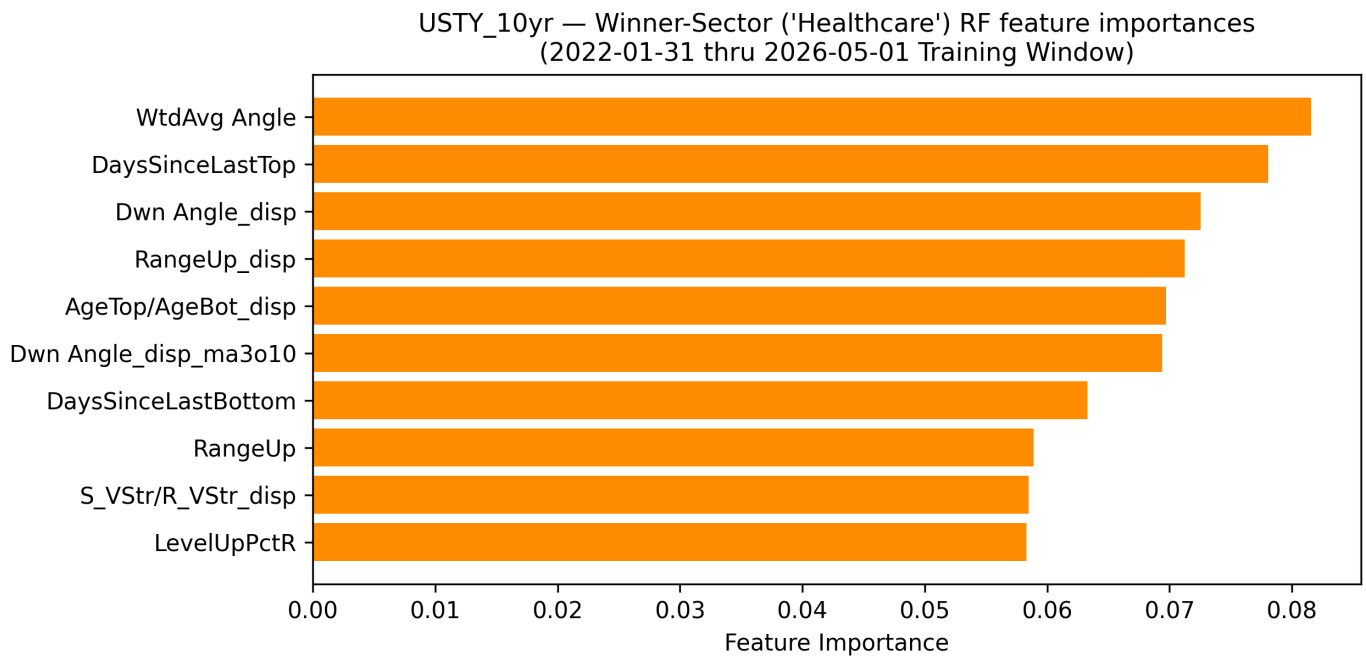
ABBV, AMGN, AZN, BHC, BIIB, BMY, CAH, CNC, CVS, CYH, ELAN, GILD, GSK, HCA, ISRG, JAZZ, LLY, MRK, NVS, PRGO, SNY, TEVA, THC, UNH, ZTS

## Top Features — models used for prediction on 2026-06-12

### All-Tickers model



### Winner-Sector model — Healthcare



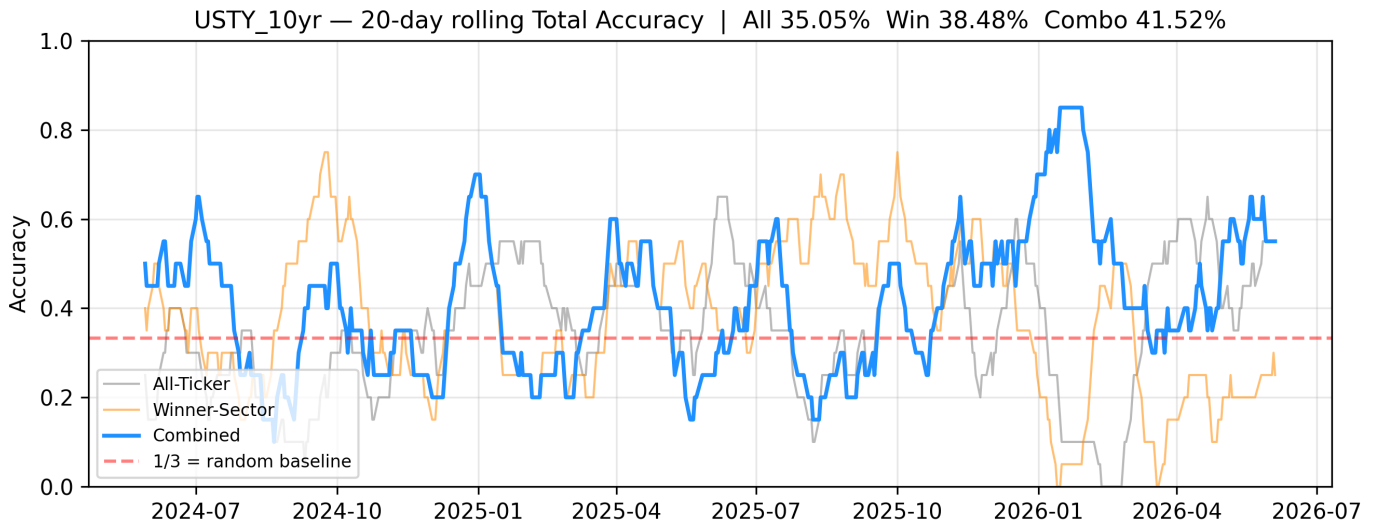


Figure 8: 20-day rolling 5d Forward Total Accuracy (exact Higher / Flat / Lower tercile match) for All-Ticker, Winner-Sector, and Combined classifiers.

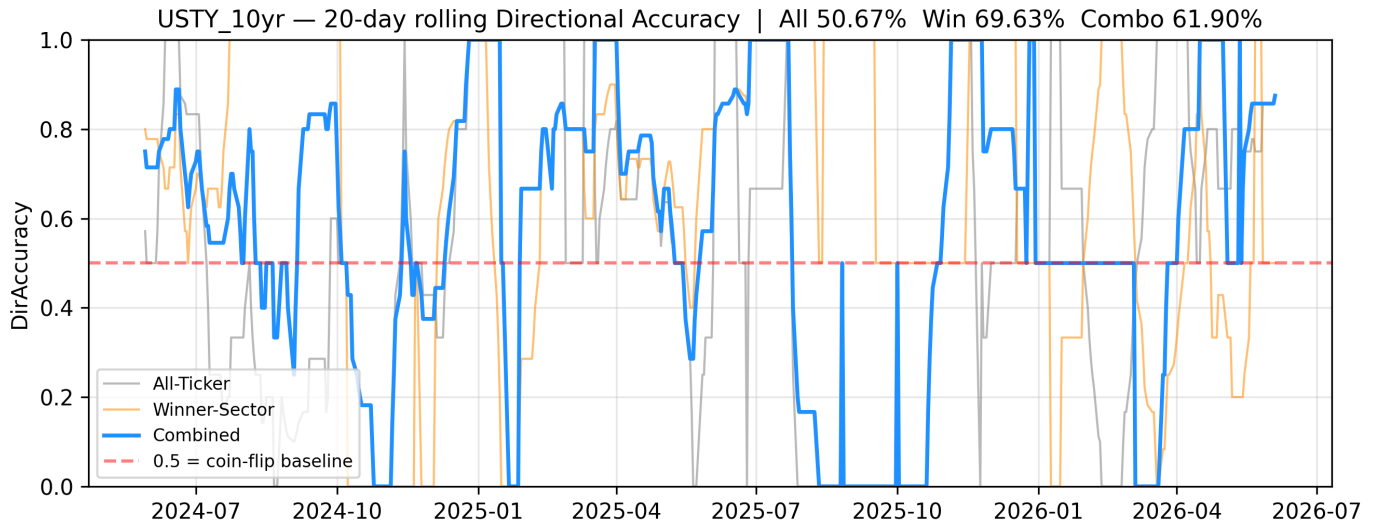


Figure 9: 20-day rolling 5d Forward Directional Accuracy (non-Flat predictions and outcomes) for All-Ticker, Winner-Sector, and Combined classifiers.

## Methodology Notes

- **Target:** 5-day forward change in each macro variable, bucketed into terciles (T0 lowest / T1 middle / T2 highest). Quintile boundaries are refit per fold on the training slice only — no test-period leakage.
- **All-Ticker model:** Random Forest Classifier on per-date mean and per-date cross-ticker standard deviation (`_disp`) of every Vecviz feature.
- **Winner-Sector model:** same RF Classifier but trained on the sector that wins a fresh 80/20-split tournament at each 6-month walk-forward boundary, so the winner can change over time.
- **Combined classifier:** deterministic 3×3 lookup combining the All-Ticker prediction (rows) and the Winner-Sector prediction (cols):

	Win = T0	Win = T1	Win = T2
All = T0	T0	T0	T1
All = T1	T0	T1	T2
All = T2	T1	T2	T2

- **Accuracy:** exact tercile match; random baseline = 33.3%.
- **DirAccuracy** (“Directional Accuracy”): standard accuracy computed AFTER excluding rows whose prediction OR actual = T1 (middle). 20-day rolling windows default to 0.5 when no non-middle predictions are present.
- **Latest-date predictions:** emitted past the last day where a realized 5-day target is computable, by re-running the final-fold model on the most recent ModelDate’s features.
- **Feature selection (top-16, with 3dma/10dma momentum):** an All-Tickers Random Forest (`n_estimators=500`, `max_depth=10`, `min_samples_leaf=5`, `max_features='sqrt'`, `random_state=42`) is fit on the full 2022-01-31 → 2024-04-30 in-sample window across a 168-column universe (per-day mean, per-day cross-ticker dispersion, and the 3-day MA / 10-day MA ratio of each base column — `_ma3o10`); the 16 columns with the highest `feature_importances_` are selected and used by every downstream model.

## Selected Features — Per Target

### Top 16 features — VIX

Rank	Feature	Importance	Type
1	V-Score_ma3o10	0.0164	mean
2	RangeUp_disp	0.0139	disp
3	RangeDwn	0.0133	mean
4	RangeDwn_ma3o10	0.0131	mean
5	RangeUp	0.0122	mean
6	99U_Ret	0.0121	mean
7	Dwn Angle	0.0114	mean
8	LevelUpPctR	0.0107	mean
9	DaysSinceLastBottom	0.0103	mean
10	Sigma_99U_Ret	0.0101	mean
11	LevelUpPctR_disp	0.01	disp
12	Sigma_95U_Ret	0.0099	mean
13	AgeTop/AgeBot_disp_ma3o10	0.0099	mean
14	WtdAvg Angle_disp	0.0096	disp
15	S_VStr/R_VStr	0.0096	mean
16	Sigma_99D_Ret	0.0093	mean

### Top 16 features — USTY\_2yr

Rank	Feature	Importance	Type
1	DaysSinceLastBottom	0.0175	mean
2	AgeTop/AgeBot_ma3o10	0.0157	mean
3	LevelUpPctR_disp_ma3o10	0.0153	mean
4	RangeUp_disp	0.0142	disp
5	99U_Sratio_disp	0.0139	disp
6	LevelUpPctR	0.0108	mean
7	DaysSinceLastBottom_ma3o10	0.0105	mean
8	RangeDwn	0.0101	mean
9	RangeDwn_disp_ma3o10	0.0093	mean
10	Wgt Up_disp_ma3o10	0.009	mean
11	99U_Sratio	0.0089	mean
12	Dwn Angle_ma3o10	0.0089	mean
13	WtdAvg Angle	0.0087	mean
14	S_VStr/R_VStr_disp_ma3o10	0.0087	mean
15	99U_Sratio_ma3o10	0.0086	mean
16	95U_Sratio_disp	0.0085	disp

### Top 16 features — USTY\_10yr

Rank	Feature	Importance	Type
1	DaysSinceLastBottom_ma3o10	0.0147	mean
2	RangeUp	0.0139	mean
3	LevelUpPctR	0.0132	mean
4	S_VStr/R_VStr	0.0126	mean
5	DaysSinceLastBottom_disp_ma3o10	0.0125	mean
6	Dwn Angle_disp	0.0108	disp
7	DaysSinceLastTop	0.0102	mean
8	DaysSinceLastBottom	0.0101	mean
9	RangeUp_disp	0.0098	disp

---

Rank	Feature	Importance	Type
10	95U_Sratio	0.0095	mean
11	nCall_0.2_ma3o10	0.0094	mean
12	AgeTop/AgeBot_disp	0.0093	disp
13	S_VStr/R_VStr_disp	0.0093	disp
14	WtdAvg Angle	0.0091	mean
15	99D_Sratio_disp	0.0091	disp
16	Dwn Angle_disp_ma3o10	0.0091	mean

---