The Behavior of Individual Investors

Recall: One of the CAPM Assumptions is:

All investors hold efficient portfolios.

A consequence is:

The Market Portfolio is efficient & All Investors hold it.

- * Familianty Bias: Investing in the companies one is familiar with, e.g., their employer
- * Relative wealth Concerns: Caving about the performance of your portfolio compared to the portfolios of your peers
- * Overconfidence Bias: Uninformed (or less skilled)
 individuals tend to overestimate their
 knowledge => they end up trading more
 often than skilled investors => they spend
 more in transaction costs

These are (not) likely to create a systematic trading biase, i.e., they will (not) cause the individual stock prices to deviate from their "fundamental" value.

Systematic Trading Biases.

Recall: An example from when we first introduced dynamic portfolios in M3390:

Invest in observe Assess the profit one share the stock price S(T/2) and rebalance your portfolio.

*Disposition Effect: Hanging onto losers and selling winners.

*Herd Behavior: The tendency to imitate each other's actions on a global scale on connected to the "relative wealth concerns"

They can create deviations from the "fundamental" values of investments.

* Investor attention, mood & experience. *

e.g., financial news: breeds familiarity

· returns on the NYSE were higher on sunny days

· sports news: a WorldCup loss which prompted lower returns on the subsequent day (bad storts news supposedly influenced the investors' mood)

· people who grew up in a "good"economy, i.e., in a prosperous phase of the economy, tend to invest more in the risky assets

(investors' experience influencing investment patterns)

The Efficiency of the Market Portfolio

(a: Can sophisticated (institutional) investors consistently profit @ the expense of individual investors?

Conditions: 1st The individual investor's behavior must be sufficient to push stock prices so that non-zero alpha

2nd Limited competition to exploit opportunities arising in (1st).

- * There is empirical/statistical evidence that the above happens. *
- · Takeover Bids: Jump in the market pice of the smaller company, but (not) all the way to the taleover price ("bid" price).

· (Famous) Analyst's Recommendations:

Jump in the market prices as a reaction to the recommended purchase, because of the vie in the demand; this is then corrected if there is no 'actual" hows.

· Fund Managers' Fees: Add value only for the best ? Median performance is as bad/good as that of individual investors.

· Study of individual investors from Taiwan:

- Individual Inventors lose on average 3.8% (about 1/3 on "bad bets", the remaining 3/3 on transaction costs)
- → Institutional Investors earn 1.5% per year. on average.

Trading Strategies

* Criteria Size: Market Capitalization

Book to Market Ratio

Do create a positive (alpha).

* Size Effects: "Small" stocks have a higher risk, but also a higher return (even when one accounts for a higher (b).
expected of small SML

→ Market Capitalization

Ordering

by MV:

-> Book · to · Market Ration

-D Book Value of Equity: BV The difference between the firms

Define: Book to Market Ratio = BV

TEND TO HAVE

With high BV

MV -> value stocks -> 0x>0

With low By

MV -> growth stocks -> 0x<0

Again: Fama & French

there is no statistical significance:

* Momentum Strategy:

Build a portfolio of stocks which longs the stocks w/ the highest past returns & Shorts the stocks w/ the lowest past returns.

Efficient Market Hypothesis

- "securities w/ equivalent risk should have the same expected return"
- . Weak form efficiency: It should not be possible to make consistent gains by trading using the information in past prices.
- · Semi strong form efficiency: It should not be possible to make consistent gains by trading using the publicly available information.

the e.g., financial news (earnings, dividends);

takeover offers (=> jump 1 is supposed to be there, it's the size of the jump which might contradict the EMH).

"recommendations from analysts

(=> Jump 1, but a correction

If no "real" news).

· Strong form efficiency: It should not be possible to make consistent gains using even private information.

to e.g., insider;
and afficult to obtain and analyze
and act on.

(4.)

19) Determine which of the following statements is most similar to the semi-strong version of the efficient markets hypothesis.

WEAK

(A) It should not be possible to consistently profit by selling winners and hanging on to losers.

WEAK

It should not be possible to consistently profit by trading on information in past prices.

SEMI.

It should not be possible to consistently profit by trading on any public information, such as that found on the Internet or in the financial press.



It should not be possible to consistently profit by trading on private information, such as that obtained from a thorough analysis of the company and its industry.

(E) It should not be possible to consistently profit by trading on inside information.

0 11	TT1 C 11 '	C 1	.11	prices and/or returns:
24)	The following	tour observations	were made about	prices and/or returns:
41	THE TOHO WILL	Iour opportations	Troit illude doods	prices and a recurrent

- I. The annualized market return on perfectly sunny days in New York City is much higher than on perfectly cloudy days. CORRECT, but not we
- II. A company's stock price dropped sharply on the day it issued a warning that upcoming earnings would likely be lower than previously expected.
- III. A company's stock price increased sharply on the day it was announced that they were a strong candidate to soon be taken over by a stronger company.

 Semi-strong form:
 - IV. Trader S consistently earned positive abnormal returns when using a momentum strategy that relied upon investing in stocks that had outperformed the S&P 500 index the previous year.

Actually, against the weak form EMH.

Determine which two of the four trends described above are consistent with the efficient markets hypothesis (EMH):

- (A) I and II
- (B) I and III
- (C) II and III
 - (D) II and IV
 - (E) III and IV



- 21) Determine which version of the efficient markets hypotheses is contradicted by a momentum strategy whereby investors can use past stock returns to form a portfolio with positive alpha.
- (A) Weak form only
- (B) Weak form and semi-strong form only
- (C) Weak form, semi-strong form, and strong form
- (D) Strong form only
- (E) It does not contradict any of the three forms of the efficient markets hypothesis.