Cumulative Inflation-Adjusted Performance
70\% S\&P 500, 30\% Lehman Aggregate and 5\% Spend


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## Time Period - 42 Years



Source: Ibbotson, Bloomberg, Commonfund Institute
The equity portion of the hypothetical portfolio is based on monthly returns of the S\&P 500 Index ( $12 / 65-2 / 08$ ), and the fixed income portion is based on monthly returns of the Lehman Brothers Aggregate Index ( $01 / 73-2 / 08$ ) and the Ibbotson Associates Long Term Corporate Bond Index ( $12 / 65-12 / 72$ ). HEPI data from $07 / 06$ to $2 / 08$ is estimated using the Commonfund Institute method based on regression analysis. Returns for this hypothetical portfolio assume that it is rebalanced to $70 / 30$ annually on $1 / 1 / \mathrm{yy}$ and $5 \%$ is distributed annually on $1 / 1 / \mathrm{sy}$.

# Board of Regents Finance Committee Long-Term Earnings Requirement and Spending Analysis <br> March 15, 2009 

## Historic Earnings Rates:

Ten-Year Actual Earnings Rate June 30, 2008
Ten-Year Actual Earnings Rate December 31, 2008
Five-Year Actual Earnings Rate June 30, 2008
Five-Year Actual Earnings Rate December 31, 2008

Earnings Requirement Analysis:
Current Distribution Requirements:
Spending Rate FY2008
Endowment Fee
Investment Costs
Total Distribution Requirement
HEPI Inflation Rate (1)
Total Earnings Requirement (2)

Expected Earnings Rate of Target Asset Allocation (1)
Estimated Earnings Shortfall

Spending Analysis:
Spending Rate FY2008
Less Estimated Earnings Shortfall
Calculated Spending Rate
Recommended Spending Rate FY2010

| Pooled | Land Grant |
| :---: | :---: |
| Endowment | Endowment |
| Funds | $\underline{\text { Funds }}$ |


| $6.70 \%$ |  | $6.70 \%$ |
| ---: | ---: | ---: |
|  |  | $3.65 \%$ |
| $10.39 \%$ | $10.39 \%$ |  |
|  |  | $3.02 \%$ |


| 4.50\% | 5.00\% |
| :---: | :---: |
| 1.00\% | 0.50\% |
| 0.18\% | 0.18\% |
| 5.68\% | 5.68\% |
| 4.30\% | 4.30\% |
| 9.98\% | 9.98\% |
| 9.50\% | 9.50\% |
| 0.48\% | 0.48\% |


| 4.50\% | 5.00\% |
| :---: | :---: |
| -0.48\% | -0.48\% |
| 4.02\% | 4.52\% |
| 4.00\% | 4.50\% |

(1) Source: Commonfund Asset Planning Model Assumptions
(2) Estimated earnings required to maintain current spending rate

## Land Grant Endowment Trust Funds <br> Proposed Land Grant Endowment Fee <br> FY2010

Valuation of Investment Committee Services:

## Actual 5-Year Return for the Fund

Asset Allocation:

|  | Policy <br> Allocation | Basic <br> Allocation <br> Modest | Basic <br> Allocation <br> Aggressive |
| :--- | ---: | ---: | ---: |
|  |  | $60 \%$ | $45 \%$ |


| 5-Year | Return | Return <br> Basic | Return <br> Basic |
| :---: | ---: | ---: | ---: |
| Return | Policy | Allocation | Allocation |
| $12 / 31 / 07$ | Allocation | Modest | Aggressive |
| $-1.95 \%$ | $-1.17 \%$ | $-0.88 \%$ | $-0.88 \%$ |
| $1.66 \%$ | $0.00 \%$ | $0.20 \%$ | $0.27 \%$ |
| $8.02 \%$ | $0.00 \%$ | $0.24 \%$ | $0.32 \%$ |
| $4.65 \%$ | $1.63 \%$ | $1.63 \%$ | $1.40 \%$ |
| $3.25 \%$ | $0.16 \%$ | $0.16 \%$ | $0.16 \%$ |
|  | $0.62 \%$ | $1.35 \%$ | $1.27 \%$ |

Mean Return - Callan Universe $\mathbf{\$ 1 0 0}$ Mil. - 1 Bil.
Probable Value Added by the Investment Committee

|  |  |  |  |
| :--- | :--- | :--- | :--- |
|  |  |  |  |
|  |  |  |  |
| $2.40 \%$ | $1.65 \%$ |  |  |

Endowment Fee Components:
Direct costs of providing services
Intangible Value of Investment Committee Services
Proposed Land Grant Endowment Fee

