

February 12, 2013

Bonnie Wurst, ASA, EA, MAAA



Funding Objectives

- Intergenerational equity with respect to plan costs.
- Stable pattern of contribution rates.
- Ratio of Assets to Liabilities targeted at 100%.





What Is Needed To Meet Objectives?

- Reasonable forecasts of resources and obligations (i.e., good assumptions).
- Smoothing devices.
 - ► Level % of payroll funding method
 - Market-related asset valuation method
- A sound funding program.
- A sound investment program.





Basic Retirement Funding Equation

$$C + I = B + E$$

- Where:
 - ► C is Contribution Income
 - ►I is Investment Return
 - ▶B is Benefits Paid
 - ►E is Expenses

"Money In = Money Out"





Basic Retirement Funding Equation

$$C + I = B + E$$

- B depends on
 - ► Plan Provisions
 - ► Experience
- C depends on
 - ► Short Term: Actuarial Assumptions

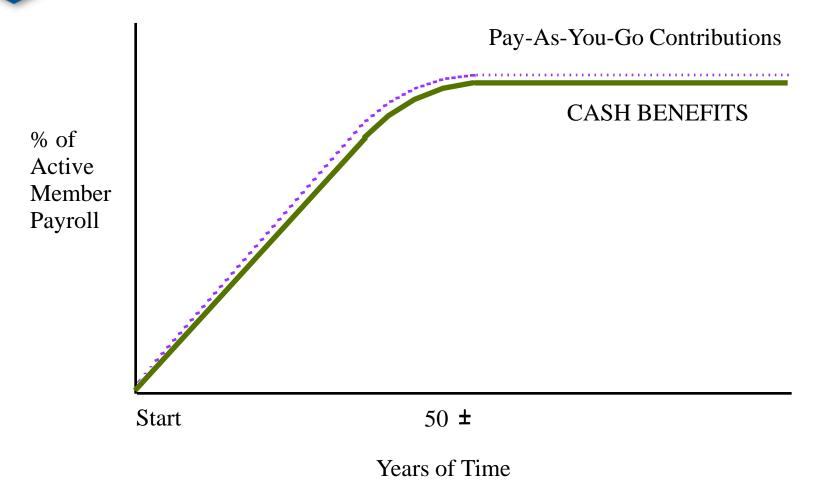
Actuarial Cost Method

► Long Term: I, B, E





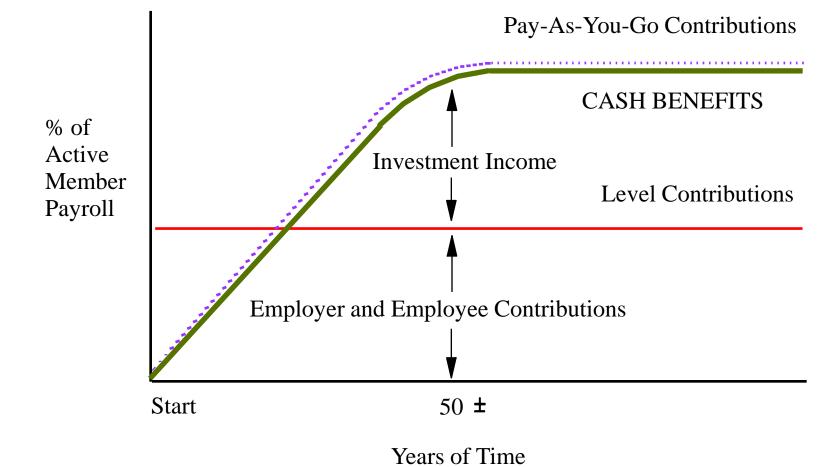
The Long Term Solution to the Equation







The Long Term Solution to the Equation







Which Plan Would You Want To Retire From?

Funding Ratio

| | 8 | |
|------|--------|--------|
| | Plan 1 | Plan 2 |
| 2003 | 30% | 90% |
| 2004 | 33% | 87% |
| 2005 | 36% | 84% |
| 2006 | 39% | 81% |
| 2007 | 42% | 78% |
| 2008 | 45% | 75% |
| 2009 | 48% | 72% |
| 2010 | 51% | 69% |
| 2011 | 54% | 66% |
| 2012 | 57% | 63% |
| 2013 | 60% | 60% |





Which Plan Would You Want To Retire From?

| | Plan 1 | Plan 2 |
|---------------------------------------|-------------|------------|
| Funding Ratio | 90% | 60% |
| Required Contribution Rate | 10% of pay | 10% of pay |
| Statutory Contribution Rate | 8% of pay | 11% of pay |
| Contribution Sufficiency/(Deficiency) | (2%) of pay | 1% of pay |





Disclaimers

- Circular 230 Notice: Pursuant to regulations issued by the IRS, to the extent this presentation concerns tax matters, it is not intended or written to be used, and cannot be used, for the purpose of (i) avoiding tax-related penalties under the Internal Revenue Code or (ii) marketing or recommending to another party any tax-related matter addressed within. Each taxpayer should seek advice based on the individual's circumstances from an independent tax advisor.
- This presentation shall not be construed to provide tax advice, legal advice or investment advice.
- Readers are cautioned to examine original source materials and to consult with subject matter experts before making decisions related to the subject matter of this presentation.
- This presentation expresses the views of the author and does not necessarily express the views of Gabriel, Roeder, Smith & Company.

