SPECIAL AND TRUST FUNDS

Market-Based Securities

Discounts, premiums, and earned interest are explained below.

Discount. Assume a bill is purchased with a par value of \$1,000,000 at a sale price of \$947,017.78.



Record the principal as a disbursement with a subclass 88. Record the discount as a receipt using a subclass 75.

Discount = Principal - $\frac{(Principal * Price)}{100}$

Discount = 1,000,000 - (1,000,000 * 94.701778)100

	STATEMENT OF TRANSACTIONS	
	Section I	
Appropriation Fund or Receipt Account (1)	Receipts and Revolving Fund Repayments (2)	Net Disbursements
(88)20X##45 (75)20X##45	52,982.22 Section II	1,000,000.00
1. Add Payment Transactions Accomplished:		
This Month		947,017.78

If this security is held to maturity, the earnings would be \$52,982.22.



Record the principal as a receipt with a subclass 98. Reverse the discount on purchase by recording a negative receipt with a subclass 75. Record the earned discount as a receipt using the receipt (point) account for earnings.

STATEMENT OF TRANSACTIONS			
	Section I		
Appropriation Fund or Receipt	Receipts and Revolving Fund	Net Disbursements	
Account (1)	Repayments (2)	(3)	
(98)20X##45 (75)20X##45 20X##45.2	1,000,000.00 52,982.22 CR 52,982.22		
	Section II		
1. Add Payment Transactions Accomplished:			
This Month		-1,000,000.00	

Assume this security is sold on September 30, 2004, at a price of 99.166000. This would result in net earnings of \$44,642.22.



Record the principal as a receipt with a subclass 98. Reverse the discount on purchase by recording a negative receipt with a subclass 75. Record the earned discount as a receipt using the receipt (point) account for earnings.

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STATEMENT OF TRANSACTIONS
                                    Section I
                                                               Net Disbursements
     Appropriation
                                    Receipts and
Fund or Receipt Account
                                    Revolving Fund
                                      Repayments
          (1)
                                         (2)
                                                                       (3)
                                           1,000,000.00
(98)20X##45
(75)20X##45
                                              52,982.22 CR
                                               44,642.22
20X##45.2
                                    Section II
1. Add Payment Transactions Accomplished:
     This Month
                                                                  -991,660.00
```

Premium. Assume a bond is purchased with a par value of \$2,500,000 at a price of \$2,531,250.00.



Record the principal as a disbursement with a subclass 88. Record the premium as a negative receipt using the receipt (point) account for earnings.

Premium =
$$(\frac{\text{Price} - 100) * \text{Principal}}{100}$$

Premium = $(\frac{101.25 - 100) * 2,500,000}{100}$

	STATEMENT OF TRANSACTIONS	
	Section I	
Appropriation Fund or Receipt Account	Receipts and Revolving Fund Repayments	Net Disbursements
(1)	(2)	(3)
(88)20x##45 20x##45.2	31,250.00 CR Section II	2,500,000.00
1. Add Payment Transactions Accomplished:		
This Month		2,531,250.00

Assume this bond is held to maturity.



Record the principal as a receipt with a subclass 98. Record the earned interest as a positive receipt using the receipt (point) account for earnings.

```
Earned = Principal * Rate
Interest 2
```

Earned =
$$\frac{2,500,000 * .07875}{2}$$

STATEMENT OF TRANSACTIONS		
Section I		
Appropriation	Receipts and	Net Disbursements
Fund or Receipt Account	Revolving Fund Repayments	
(1)	(2)	(3)
(98)20X##45	2,500,000.00	
20X##45.2	98,437.50	
Section II		
1. Add Payment Transactions Accomplished:		
This Month		-2,598,437.50

Assume this bond is sold on April 24, 2006, at a price of 102.0625.



Record the principal as a receipt with a subclass 98. Record the premium and earned interest as a receipt using the receipt (point) account for earnings.

```
STATEMENT OF TRANSACTIONS
                                  Section I
    Appropriation
                                   Receipts and
                                                            Net Disbursements
   Fund or Receipt
                                  Revolving Fund
       Account
                                    Repayments
         (1)
                                        (2)
                                                                    (3)
                                           2,500,000.00
(98)20X##45
20X##45.2
                                              88,544.54
                                  Section II
1. Add Payment Transactions Accomplished:
     This Month
                                                             -2,588,544.54
```

Assume this bond is sold on April 24, 2006, at a price of 98.500.



Record the principal as a receipt with a subclass 98. Record the discount as a negative receipt and earned interest as a positive receipt using the receipt (point) account for earnings.

```
Days from last Discount = Principal - \frac{\text{(Principal * Price)}}{100} Earned = \frac{\text{Principal * Rate * interest period}}{\text{# of days in interest period * 2}}

Discount = 2,500,000 - \frac{\text{(98.5 * 2,500,000)}}{100} Earned = \frac{2,500,000 * .07875 * 68}{181 * 2}
```

```
STATEMENT OF TRANSACTIONS
                                  Section I
    Appropriation
                                  Receipts and
                                                            Net Disbursements
   Fund or Receipt
                                  Revolving Fund
       Account
                                   Repayments
         (1)
                                        (2)
                                                                    (3)
(98)20X##45
                                         2,500,000.00
20X##45.2
                                               517.96 CR
                                  Section II
1. Add Payment Transactions Accomplished:
                                                              -2,499,482.04
     This Month
```

Earned Interest. Assume the bond is purchased with a par value of \$2,500,000 at a price of 101.25 on October 11, 2004.



Record the principal as a disbursement with a subclass 88. Record the premium and earned interest as a negative receipt using the receipt (point) account for earnings.

Earned = $\frac{\text{Principal * Rate * interest Period}}{\text{# of days in interest period * 2}}$

Earned = $\frac{2,500,000 * .07875 * 57}{184 * 2}$

	STATEMENT OF TRANSACTIONS		
Section I			
Appropriation Fund or Receipt Account	Receipts and Revolving Fund Repayments	Net Disbursements	
(1)	(2)	(3)	
(88)20x##45 20x##45.2	61,744.23 CR Section II	2,500,000.00	
Section II			
1. Add Payment Transactions Accomplished:			
This Month		2,561,744.23	

When the semiannual interest is paid on February 15, 2005, the amount is recorded as a receipt.



Record the interest as a receipt using the receipt (point) account for earnings.

STATEMENT OF TRANSACTIONS				
	Section I			
Appropriation Fund or Receipt Account	Receipts and Revolving Fund Repayments	Net Disbursements		
(1)	(2)	(3)		
20X##45.2	98,437.50			
	Section II			
1. Add Payment Transactions Accomplished:				
This Month		-98,437.50		

Special Issue Securities

Investment. Assume a special issue certificate of indebtedness is purchased on August 19, 2004.



Record the principal as a disbursement with a subclass 88.

	STATEMENT OF TRANSACTIONS	
	Section I	
Appropriation Fund or Receipt Account	Receipts and Revolving Fund	Net Disbursements
(1)	Repayments (2)	(3)
(88)20x##45		8,000,000.00
	Section II	
1. Add Payment Transactions Accomplished:		
This Month		8,000,000.00

Redemption. When special issue securities mature or are redeemed early, the investor receives the principal plus earned interest.



Record the principal as a receipt with a subclass 98. Record the earned interest as a receipt using the receipt (point) account for earnings.

Earned =
$$\frac{\text{Principal * Rate * Outstanding}}{\text{Days in interest period * 2}}$$
Earned =
$$\frac{8,000,000 * .04625 * 103}{184 * 2}$$

STATEMENT OF TRANSACTIONS			
	Section I		
Appropriation Fund or Receipt Account (1)	Receipts and Revolving Fund Repayments (2)	Net Disbursements	
(98)20X##45 20X##45.2	8,000,000.00 103,559.78 Section II		
1. Add Payment Transactions Accomplished:			
This Month		-8,103,559.78	

Semiannual Interest. Assume this security is held to maturity. Semiannual interest is paid on December 31 and on June 30 on the number of days the security is outstanding. Therefore, the amount of interest paid on December 31 and June 30 is 134,728.26 and 185,000.00, respectively.



Record the interest as a receipt using the receipt (point) account for earnings.

Days

STATEMENT OF TRANSACTIONS		
	Section I	
Appropriation Fund or Receipt	Receipts and Revolving Fund	Net Disbursements
Account (1)	Repayments (2)	(3)
20X##45.2	134,728.26 Section II	
1. Add Payment Transactions Accomplished:		
This Month		-134,728.26

1-Day Certificates

Investment. Assume a 1-day certificate is purchased on August 19, 2004.



Record the principal as a disbursement with a subclass 88.

STATEMENT OF TRANSACTIONS		
Section I		
Appropriation Fund or Receipt Account	Receipts and Revolving Fund Repayments	Net Disbursements
(1)	(2)	(3)
(88)20X##45		5,600,000.00
	Section II	
1. Add Payment Transactions Accomplished:		
This Month 5,600,000.00		

Maturity. When 1-day securities mature, the investor receives the principal plus earned interest.



Record the principal as a receipt with a subclass 98. Record earned interest as a receipt using the receipt (point) account for earnings.

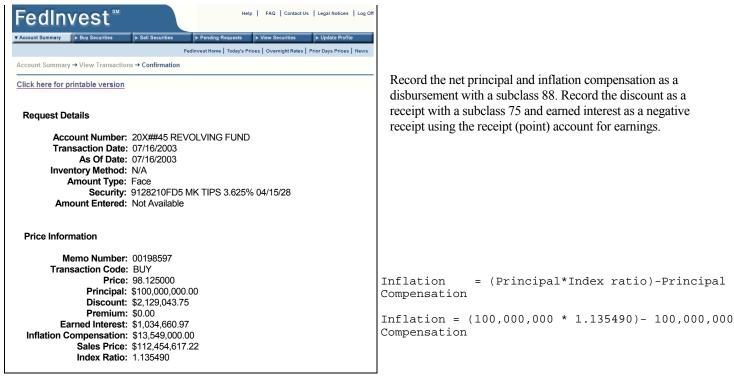
Earned = $\frac{Principal * Rate}{360}$

Earned = $\frac{5,600,000 * .0127}{360}$

	STATEMENT OF TRANSACTIONS	
	Section I	
Appropriation Fund or Receipt	Receipts and Revolving Fund	Net Disbursements
Account (1)	Repayments (2)	(3)
(98)20X##45 20X##45.2	5,600,000.00 197.56	
	Section II	
1. Add Payment Transactions Accomplished:		
This Month		-5,600,197.56

Inflation Protected Security

Investment. Assume a Treasury Inflation Protected Security (TIPS) note is purchased with a par value of \$100,000,000 at a price of 98.125000 on July 16, 2003.



Record the net principal and inflation compensation as a disbursement with a subclass 88. Record the discount as a receipt with a subclass 75 and earned interest as a negative receipt using the receipt (point) account for earnings.

= (Principal*Index ratio)-Principal

```
Days
Earned
         = Principal * Rate * Outstanding * Index Ratio
               Days in interest period * 2
Interest
        = 1,000,000 * .03625 * 92 * 1.135490
Earned
                   183 * 2
Interest
```

	STATEMENT OF TRANSACTIONS	
	Section I	
Appropriation Fund or Receipt	Receipts and Revolving Fund	Net Disbursements
Account (1)	Repayments (2)	(3)
(88)20X##45	2 120 042 75	113,549,000.00
(75)20X##45 20X##45.2	2,129,043.75 1,034,660.97 CR	
Section II		
1. Add Payment Transactions Accomplished:		
This Month		112,454,617.22

Assume this note is held to maturity and the index ratio is 1.554840.



Compensation

Record the net principal and inflation compensation as a receipt with a subclass 98. In addition, reclassify the original discount at investment as earnings by recording a negative receipt using subclass 75 and a positive receipt using the receipt (point) account for earnings. Record earned interest as a positive receipt using the receipt (point) account for earnings.

Interest

```
STATEMENT OF TRANSACTIONS
                                     Section I
     Appropriation
                                     Receipts and
                                                                Net Disbursements
    Fund or Receipt
                                    Revolving Fund
                                      Repayments
        Account
          (1)
                                          (2)
                                                                       (3)
(98)20X##45
                                         155,494,000.00
(75)20X##45
                                           2,129,043.75 CR
20X##45.2
                                           4,947,372.50
                                    Section II
1. Add Payment Transactions Accomplished:
     This Month
                                                                -158,312,328.75
```

Assume this note is redeemed on August 4, 2005, at a price of 101.750 and the index ratio is 1.198520.



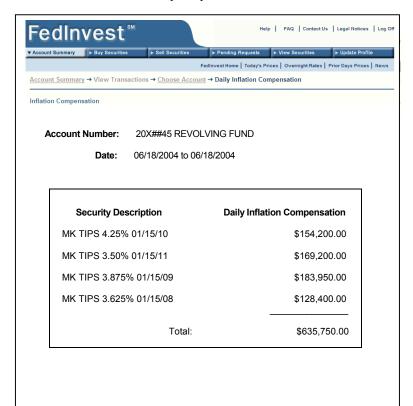
Record the net principal and inflation compensation as a receipt with a subclass 98. Record the premium and earned interest as a receipt using the receipt (point) account for earnings. In addition, reclassify the original discount at investment as earnings by recording a negative receipt to subclass 75 and a positive receipt using the receipt (point) account for earnings.

```
Premium = (\frac{\text{Price} - 100)}{100} * Principal * Index Ratio 100

Premium = (\frac{101.750 - 100)}{100} * \frac{100,000,000}{100} * \frac{1.198520}{100}
```

```
STATEMENT OF TRANSACTIONS
                                    Section I
     Appropriation
                                     Receipts and
                                                                Net Disbursements
    Fund or Receipt
                                    Revolving Fund
        Account
                                      Repayments
                                          (2)
                                                                       (3)
(98)20X##45
                                         119,852,000.00
(75)20X##45
                                           2,129,043.75 CR
20X##45.2
                                           5,567,830.13
                                    Section II
1. Add Payment Transactions Accomplished:
     This Month
                                                               -123,290,786.38
```

Daily Inflation Compensation. It is critical that Treasury accurately reflects the outstanding public debt at all times. Therefore, on a daily basis, Treasury must record the inflated value of all TIPS securities. This is done by adjusting the carrying value of the investment on a daily basis by the current day index ratio in relation to the prior day index ratio. **Note:** The inflation compensation can be negative as well as positive, therefore decreasing the carrying value of the security. Again, this is accomplished with two transactions. Treasury pays the investing fund the inflation compensation earned and immediately reinvests the inflation to inflate the principal.



Record the daily inflation compensation interest payment as a receipt using the receipt (point) account for earnings. In addition, record the reinvestment as a disbursement with a subclass 88.

STATEMENT OF TRANSACTIONS			
Section I			
Appropriation Fund or Receipt Account	Receipts and Revolving Fund Repayments	Net Disbursements	
(1)	(2)	(3)	
(88)20X##45 20X##45.2	635,750.00	635,750.00	
Section II			
1. Add Payment Transactions Accomplished:			
This Month		0.00	

Semiannual Interest. When the semiannual interest is paid, the amount is based on the original principal plus the inflation compensation earned to date. Assume the index ratio on the payment date is 1.142315.



Record the interest as a receipt using the receipt (point) account for earnings.

```
Earned Interest = \frac{\text{Principal * Rate * Index Ratio}}{2}
Earned Interest = \frac{100,000,000 * .03625 * 1.142315}{2}
```

STATEMENT OF TRANSACTIONS				
Section I				
Appropriation Fund or Receipt	Receipts and Revolving Fund	Net Disbursements		
Account (1)	Repayments (2)	(3)		
20X##45.2	2,070,445.94 Section II			
1. Add Payment Transactions Accomplished:				
This Month		-2,070,445.94		

NOTES