## IDENTIFYING THE ACTUAL COSTS OF A MEAL **PART 2: UNDERSTANDING AND CALCULATING MEAL COSTS**

PRESENTED BY

AUDREY C. MCCOOL, EDD, RD, LD

**PROGRAMS** 

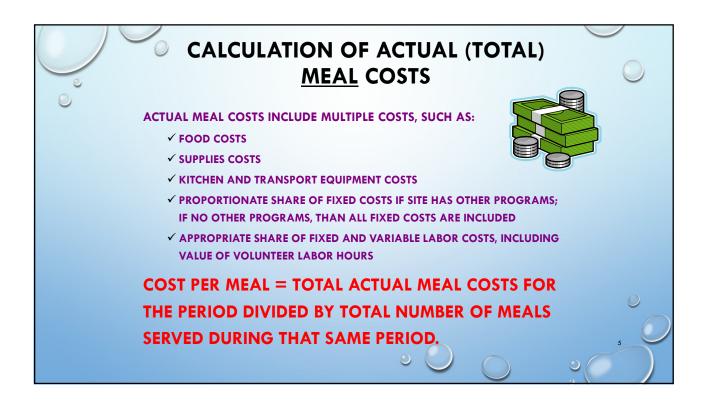
### **OBJECTIVES** AFTER PARTICIPATING IN THIS PROGRAM, PARTICIPANTS SHOULD BE ABLE TO: ✓ DIFFERENTIATE BETWEEN FOOD COSTS AND MEAL COSTS ✓ IDENTIFY AT LEAST 4 MEAL COST COMPONENTS WITHIN THEIR PROGRAMS ✓ CALCULATE ACTUAL FOOD COSTS FOR THEIR PROGRAMS ✓ IDENTIFY FACTORS THAT CAN ESCALATE FOOD COSTS THROUGH UNPLANNED LOSS ✓ EXPLAIN HOW TO CALCULATE VARIABLE COMPONENTS OF MEAL COSTS, SUCH AS **LABOR OR SUPPLIES** ✓ LIST AT LEAST 4 FIXED COST COMPONENTS OF THE TOTAL MEAL COST WITHIN THEIR ✓ EXPLAIN AT LEAST 2 ALTERNATIVES FOR ALLOCATING FIXED COSTS AMONG THEIR PROGRAMS, INCLUDING THE MEAL PROGRAMS

### WHY KNOWING MEAL COSTS IS IMPORTANT

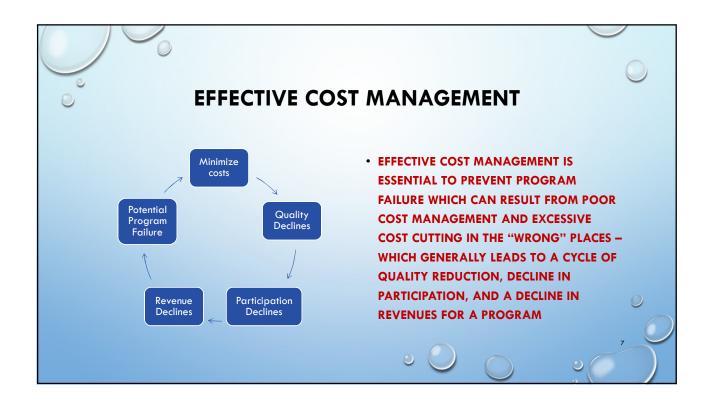
- CONTINUED DECLINE IN BUDGETS COMBINED WITH CONTINUED INCREASED DEMAND
  - ✓ USE AVAILABLE DOLLARS EFFECTIVELY AND EFFICIENTLY
  - ✓ MAINTAIN DESIRED MEAL AND SERVICE QUALITY
  - **✓ DEMONSTRATE IMPACT OF YOUR PROGRAM TO GOVERNMENT AND DONORS**
- INCREASING COMPETITION FROM ALTERNATIVE MEAL SERVICE PROVIDERS
  - ✓ MAINTAIN COMPETITIVE POSITION AS A SERVICE PROVIDER
- NEED TO MANAGE COSTS TO BE ABLE TO STAY IN BUSINESS SO THAT YOU CAN PROVIDE SERVICES TO YOUR CONSUMERS
- POTENTIAL FOR PROGRAM TO BECOME A CONTRACTOR THAT PROVIDES MEALS TO OTHER VENUES
  - ✓ EXPLORE OPPORTUNITIES TO PROVIDE MEALS TO OTHER CUSTOMERS
  - ✓ NEED TO BE ABLE TO PRICE BID PROPOSALS CORRECTLY TO COVER COSTS AND MAKE A PROFIT.
- NEED TO BE ABLE TO EVALUATE BIDS RECEIVED FROM POTENTIAL CONTRACTORS
  - ✓ UNDERSTAND HOW THEY HAVE CALCULATED THE PRICES THEY ARE BIDDING AND THE COMPONENTS OF THEIR BID PRICES

FOOD COSTS ARE NOT THE SAME AS TOTAL MEAL COSTS

FOOD COSTS ARE JUST ONE COMPONENT OF TOTAL MEAL COSTS









### **EFFECTIVE AND EFFICIENT ARE NOT THE SAME**

- WHILE IT IS IMPORTANT FOR YOUR PROGRAMS TO OPERATE EFFICIENTLY, IT IS EVEN MORE IMPORTANT FOR YOUR PROGRAM TO USE YOUR AVAILABLE RESOURCES AS EFFECTIVELY AS POSSIBLE.
- TO BE EFFICIENT IS TO FUNCTION IN THE BEST POSSIBLE AND LEAST WASTEFUL MANNER;
- TO BE EFFECTIVE IS TO PRODUCE THE INTENDED OR EXPECTED RESULT.
- KNOWING YOUR ACTUAL MEAL COSTS ENABLES YOU TO KEEP YOUR WASTE
   OF RESOURCES TO A MINIMUM WHILE ALSO ACHIEVING YOUR SERVICE
   GOALS AND MAINTAINING YOUR PROGRAM'S QUALITY STANDARDS

### **MEAL COST COMPONENTS**

### DIFFERENT TYPES OF COSTS:

- ✓ HAVE DIFFERENT IMPACT ON THE TOTAL MEAL COSTS
- ✓ ARE MANAGED DIFFERENTLY TO CONTROL TOTAL MEAL COSTS
- **✓ HAVE DIFFERENT IMPACT ON INCREMENTAL MEAL COSTS**

## VARIABLE (DIRECT) COSTS ARE COSTS THAT CHANGE PROPORTIONATELY WITH THE VOLUME OF BUSINESS. THESE COSTS:

- ✓ INCREASE INCREMENTALLY WITH EACH ADDITIONAL MEAL PREPARED/SERVED;
- ✓ CAN BE MOST READILY CONTROLLED IN THE SHORT RUN DURING PROGRAM OPERATIONS BY PROGRAM MANAGEMENT.

### THESE COSTS INCLUDE:

- √ FOOD COSTS
- ✓ SUPPLIES COSTS
- ✓ LABOR COSTS (PART OF THE TOTAL LABOR COSTS, BUT NOT ALL)
- ✓ TRANSPORTATION COSTS (PART OF TRANSPORTATION COSTS, BUT NOT ALL)

### **MEAL COST COMPONENTS**

FIXED (OVERHEAD) COSTS ARE COSTS THAT REMAIN CONSTANT IN THE SHORT RUN EVEN THOUGH REVENUE VOLUME MAY VARY – THESE COSTS:

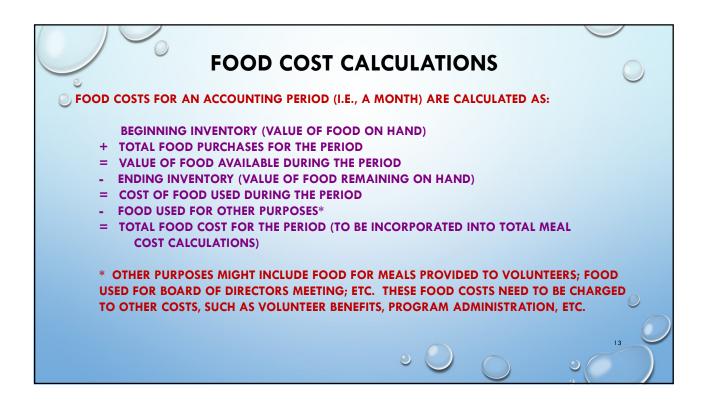
- ✓ MUST BE ALLOCATED PROPORTIONATELY TO PROGRAMS HOUSED IN A MULTI-SERVICE AGENCY OR CENTER
- ✓ DO NOT INCREASE INCREMENTALLY WITH EACH ADDITIONAL MEAL PREPARED/SERVED
- ✓ MAY LEAD TO AN INCREASE IN TOTAL MEAL COST, BUT IN "JUMPS"
- ✓ CAN BE CONTROLLED BY PROGRAM MANAGEMENT, BUT ONLY IN THE LONG RUN

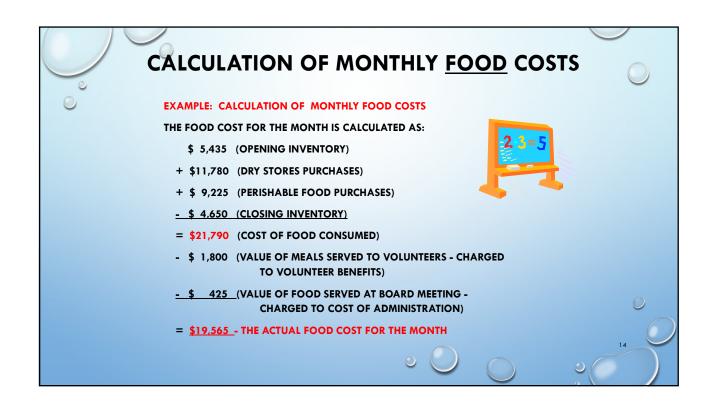
### **EXAMPLES OF SUCH COSTS INCLUDE:**

- **✓ UTILITIES**
- ✓ COMMUNICATIONS TELEPHONES, COMPUTER SYSTEMS, POSTAGE
- ✓ BUILDING COSTS DEPRECIATION (OR RENT), MAINTENANCE, PEST CONTROL
- ✓ EQUIPMENT COSTS (ESPECIALLY CAPITAL EQUIPMENT)
- **✓ INSURANCE**
- **✓ OFFICE SUPPLIES AND EQUIPMENT**
- **✓ LICENSES**
- **✓ TAXES**
- ✓ GENERAL ADMINISTRATION EXPENSES FOR THE MULTI-SERVICE AGENCY OR CENTER AND ALL
  PROGRAMS

### **FOOD COST CALCULATIONS**

- FOOD COSTS ARE <u>NOT EQUAL</u> TO THE SUM OF THE MONIES PAID TO FOOD VENDORS FOR A STATED PERIOD.
- FOOD COSTS REFLECT ONLY THE FOOD ACTUALLY USED OR THROWN AWAY.
- FOOD ON HAND IN INVENTORY IS NOT PART OF INCURRED FOOD COSTS.
- FOOD USED FOR PURPOSES OTHER THAN PROGRAM MEALS IS NOT PART OF FOOD COSTS INCORPORATED INTO TOTAL MEAL COSTS.





### **INVENTORY MANAGEMENT**

INVESTMENT AND MONITORING THE FLOW OF PRODUCTS PLACED IN INVENTORY IS REQUIRED TO CALCULATE ACTUAL FOOD COSTS AND EFFECTIVELY MANAGE COSTS.

ASSET OF YOUR PROGRAM AND MUST BE TREATED AS SUCH.

### **INVENTORY MANAGEMENT**



- CAREFUL INVENTORY RECORDS NEED TO BE MAINTAINED IN ORDER TO CONTROL INVENTORY USAGE.
- ACQUISITIONS SHOULD BE RECORDED FROM INVOICES; ISSUES SHOULD BE RECORDED FROM REQUISITION FORMS.
- PERPETUAL INVENTORY RECORDS CAN BE MAINTAINED ON COMPUTERS.
- PHYSICAL INVENTORY COUNTS NEED TO BE TAKEN MONTHLY.
- PERPETUAL AND PHYSICAL INVENTORY VALUATIONS NEED TO BE RECONCILED MONTHLY.
- SIGNIFICANT VARIATIONS IN INVENTORY VALUES NEED TO BE INVESTIGATED AND ACCOUNTED FOR.

# PRODUCT "SHRINKAGE" INCREASES FOOD COSTS

- PRODUCT "SHRINKAGE" MUST BE AVOIDED TO OPTIMIZE PRODUCT COSTS.
- "SHRINKAGE" CAN RESULT FROM:
  - **✓ THEFT INTENTIONAL OR UNINTENTIONAL**
  - **✓ EXCESSIVE USE OF PRODUCT**
  - **✓ WASTE IN PRODUCT PREPARATION/HANDLING**
  - **✓ SPOILAGE**



# PRODUCT PRESERVATION TAKING APPROPRIATE ACTIONS TO PREVENT PRODUCT "SHRINKAGE" THROUGH PRODUCT LOSS, OVER-USAGE, AND SPOILAGE IS A CRITICAL STEP IN EFFECTIVELY MANAGING FOOD COST – AND THUS MANAGING MEAL COST.

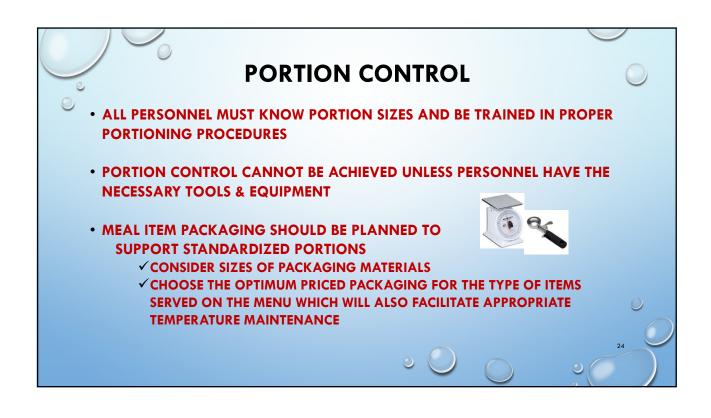










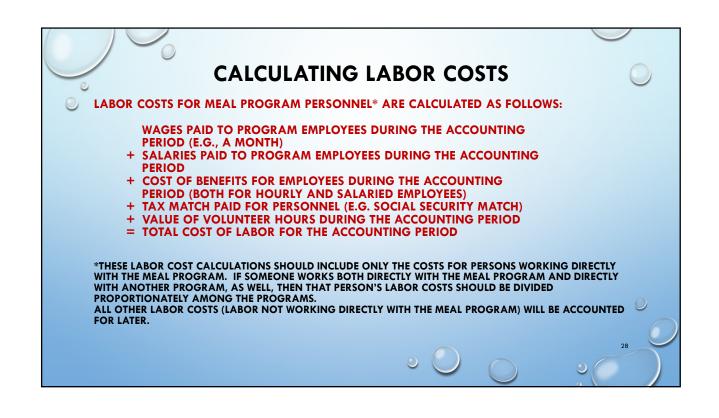


### **PORTION CONTROL**

WHILE STANDARDIZED RECIPES AND STANDARDIZED PRODUCTION PROCEDURES ARE ESSENTIAL FOR EFFECTIVE COST CONTROL, THAT CONTROL WILL BE LOST UNLESS STANDARD PORTIONS ARE SERVED FROM THE ITEMS PREPARED FROM THE STANDARD RECIPES AND THOSE PORTIONS ARE PACKAGED SUCH THAT FOOD QUALITY AND FOOD TEMPERATURES ARE MAINTAINED.

# CALCULATING SUPPLIES COSTS SUPPLIES COSTS ARE CALCULATED IN THE SAME WAY THAT FOOD COSTS ARE CALCULATED GENERALLY, FOOD COSTS AND SUPPLIES COSTS WOULD BE CALCULATED AT THE SAME TIME SINCE BOTH REQUIRE VALUATION OF INVENTORIES ON HAND AS WELL AS SUMMATION OF EXPENDITURES PAID TO SUPPLIERS DURING THE ACCOUNTING PERIOD. SO, SUPPLIES COSTS ARE CALCULATED AS: BEGINNING INVENTORY (VALUE OF SUPPLIES ON HAND AT BEGINNING OF THE PERIOD) SUPPLIES PURCHASES FOR THE PERIOD ENDING INVENTORY (VALUE OF SUPPLIES ON HAND AT END OF THE PERIOD) COST OF SUPPLIES USED FOR OTHER PURPOSES TOTAL COST OF SUPPLIES FOR THE PERIOD (TO BE USED IN TOTAL MEAL COST CALCULATIONS)





### **CALCULATING LABOR COSTS**

- MOST PROGRAMS CAN DETERMINE THE COST OF WAGES AND SALARIES FOR THE PERIOD FROM THE PAYROLL RECORDS FOR THE ACCOUNTING PERIOD. COSTS INCLUDED SHOULD INCLUDE:
  - ✓ EMPLOYEES' GROSS PAY
  - **✓ TAX MATCH PAID AND NOT REFLECTED IN GROSS PAY**
  - ✓ BENEFITS PAID FOR EMPLOYEES NOT REFLECTED IN GROSS PAY (E.G. RETIREMENT CONTRIBUTIONS, INSURANCE COVERAGE, ETC.)
- IN SUMMING THESE COSTS, THE RECORDS OF ONLY THE EMPLOYEES WORKING DIRECTLY WITH THE MEAL PROGRAMS SHOULD BE INCLUDED.
- SMALL PROGRAMS WHICH ONLY PROVIDE MEAL SERVICES AND HAVE A LIMITED NUMBER
  OF EMPLOYEES MAY WANT TO KEEP INDIVIDUAL EMPLOYEE RECORDS FOR THESE LABOR
  COST ITEMS AND KEEP A RUNNING DAILY OR WEEKLY TOTAL OF THESE COSTS.

### **CALCULATING LABOR COSTS**

FOR EXAMPLE – MONTHLY LABOR CALCULATION FOR <u>PAID EMPLOYEES</u> MIGHT BE CALCULATED AS:

<u>PERSON A</u> IS FULL TIME ON SALARY AND HAS ONE DEPENDENT ON HER HEALTH INSURANCE

<u>PERSON B</u> IS A FULL-TIME HOURLY EMPLOYEE ELIGIBLE FOR BENEFITS AND HAS NO

DEPENDENTS ON HER HEALTH INSURANCE

PERSON C IS A PART-TIME HOURLY EMPLOYEE NOT ELIGIBLE FOR BENEFITS

Employee	Wage Rate	Hours Worked	Total Salary or Wages	Tax Match (SSI & Medicare)	Benefit Contribution	Total Monthly Labor Cost
Person A	N/A	N/A	\$1,200.00	\$91.80	\$350.00	\$1641.80
Person B	\$12.00	40	\$480.00	\$36.72	\$200.00	\$716.72
Person C	\$8.00	18	<u>\$144.00</u>	<u>\$11.02</u>	N/A	<u>\$155.02</u>
Total	N/A	N/A	\$1,824.00	\$139.54	\$550.00	\$2,513.54

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### **CALCULATING LABOR COSTS**

THE VALUE OF VOLUNTEER LABOR MUST BE INCLUDED IN THE CALCULATION OF LABOR COSTS WHY??

IF THE VOLUNTEERS ARE PERFORMING TASKS WHICH ARE ESSENTIAL TO THE PROGRAM, AND IF THE VOLUNTEERS ARE NOT AVAILABLE, THEN PAID EMPLOYEES WOULD BE NEEDED TO COMPLETE THOSE TASKS.

TO DETERMINE THE VALUE OF VOLUNTEER HOURS TO INCLUDE IN LABOR COST CALCULATIONS, IT IS NECESSARY TO KEEP A RECORD OF:

- ✓ EACH VOLUNTEER, THEIR JOB TITLE OR JOB DESCRIPTION
- ✓ THE NUMBER OF HOURS THE VOLUNTEER WORKS IN THAT JOB
- ✓ THE PREVAILING HOURLY WAGE FOR THAT TYPE OF JOB
- ✓ THE HOURLY COST OF FRINGE BENEFITS THAT WOULD BE ASSOCIATED WITH AN EMPLOYEE IN THAT JOB.



MULTIPLY EACH VOLUNTEER'S HOURLY WAGE INCLUDING THE FRINGE BENEFIT COSTS X NUMBER OF HOURS WORKED

= THE VALUE (COST) OF THAT VOLUNTEER'S WORK FOR THE PROGRAM

### **CALCULATING LABOR COSTS**

SAMPLE <u>VOLUNTEER IN-KIND</u> LABOR COST CALCULATION FOR A MONTH:

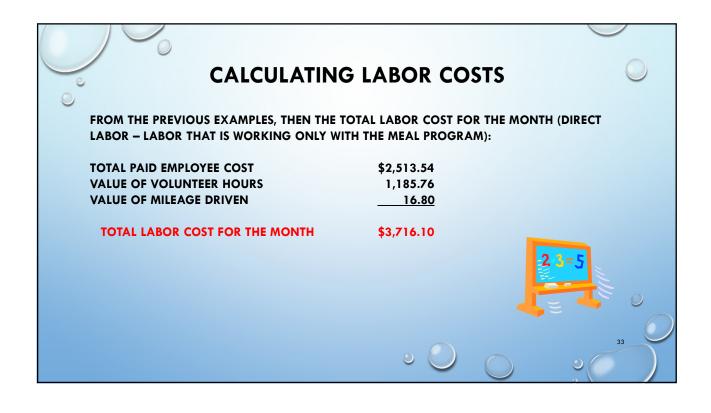
<u>VOLUNTEER A</u> WORKS IN THE KITCHEN AND HELPS PORTION FOOD AND PACK MEALS FOR DELIVERY

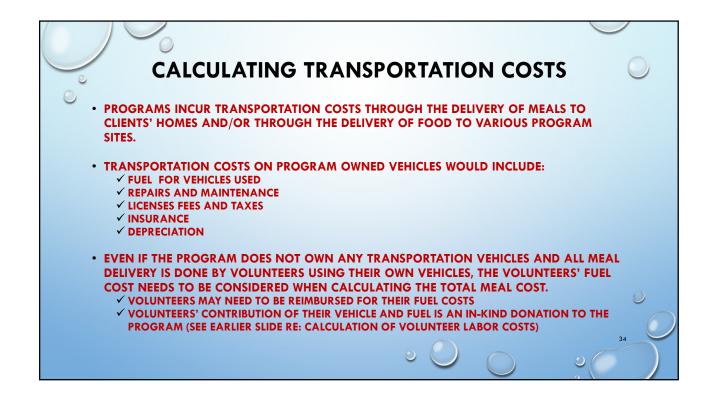
**VOLUNTEER B PICKS UP AND DELIVERS MEALS TO HOMEBOUND CLIENTS** 

<u>VOLUNTEER C</u> WORKS IN THE OFFICE HELPING MAKE PHONE CALLS, FILE RECORDS, AND DOING OTHER SUCH CLERICAL TASKS

PROGRAM'S <u>FRINGE BENEFIT RATE</u> FOR HOURLY EMPLOYEES ELIGIBLE FOR BENEFITS IS 7% THE <u>FEDERAL MILEAGE RATE</u> OF \$0.14 PER MILE DRIVEN IN SERVICE OF CHARITABLE ORGANIZATIONS IS USED AS THE MILEAGE RATE

Volunteer's Name	Job Title or Job Description	Prevailing Hourly Wage	Wage Plus Fringe Benefit	Total Hours Volunteer Worked	Value of Hours	Allowable Mileage	Value of Mileage
Volunteer A	Kitchen Helper	\$7.00	\$7.49	36	\$269.64	0	0
Volunteer B	<b>Delivery Driver</b>	\$12.00	\$12.84	50	\$642.00	120	\$16.80
Volunteer C	Clerk	\$8.00	\$8.56	<u>32</u>	<u>\$273.92</u>	<u>0</u>	<u>0</u>
Total	N/A	N/A	N/A	118	\$1,185.56	120	\$16.80
							0/





### **CALCULATING TRANSPORTATION COSTS**

- CALCULATION OF FUEL COSTS CAN BE DONE BY:
  - ✓ SUMMATION OF THE COST ON RECEIPTS FOR FUEL PURCHASES
  - ✓ APPLICATION OF STATE OR FEDERAL MILEAGE REIMBURSEMENT RATES TO THE MILEAGE DRIVEN

(APPLICABLE TO EITHER PROGRAM OWNED VEHICLES OR TO THE CALCULATION OF FUEL COSTS FOR VOLUNTEERS – WHETHER THEY ARE REIMBURSED FOR COSTS OR NOT)

- COSTS OF REPAIRS AND MAINTENANCE, LICENSE FEES, TAXES, AND INSURANCE FOR PROGRAM OWNED VEHICLES WOULD BE TAKEN FROM BILLINGS RECEIVED/PAID.
- DEPRECIATION COSTS FOR PROGRAM OWNED VEHICLES WOULD BE CALCULATED IN ACCORD WITH THE IRS ACCEPTED METHODOLOGY ADOPTED BY THE PROGRAM FOR THEIR VEHICLES.

### **EQUIPMENT COSTS**

- LARGE EQUIPMENT COSTS ARE GENERALLY CONSIDERED TO BE INCLUDED IN THE COST OF CAPITAL EQUIPMENT

   (E.G. LARGE EQUIPMENT IS EQUIPMENT WITH A MULTI-YEAR LIFE AND A
  - COST IN EXCESS OF A STATED AMOUNT, AS DETERMINED BY YOUR PROGRAM)
- SMALL EQUIPMENT THAT DOES NOT MEET THE PROGRAM'S STANDARDS FOR CAPITAL EQUIPMENT WOULD BE CONSIDERED A "SUPPLY" AND INCLUDED IN SUPPLY COSTS FOR THE ACCOUNTING PERIOD IN WHICH THE ITEM(S) WAS (WERE) PURCHASED (E.G. ANYTHING FROM SERVING UTENSILS TO STOCK POTS TO SMALL PRODUCTION OR STORAGE EQUIPMENT).
- COSTS OF EQUIPMENT, SUCH AS FOOD PRODUCTION EQUIPMENT, REFRIGERATORS, OR FREEZERS WHICH ARE USED EXCLUSIVELY FOR THE MEAL PROGRAM WOULD ALL BE INCLUDED IN THE TOTAL MEAL COST.

### **EQUIPMENT COSTS**

- CAPITAL (LARGE) EQUIPMENT COSTS ARE NOT INCLUDED IN TOTAL MEAL COSTS AT THE TIME OF PURCHASE.
- RATHER, THESE COSTS ARE SPREAD OVER THE LIFE OF THE EQUIPMENT THROUGH DEPRECIATION.
- THE DEPRECIATION CALCULATION WOULD BE DONE IN ACCORD WITH STANDARD IRS PROCEDURES WHICH THE PROGRAM HAS ADOPTED FOR CAPITAL EQUIPMENT.
- THE CALCULATED DEPRECIATION FOR THE ACCOUNTING PERIOD IS INCLUDED IN THE TOTAL MEAL COST
- EQUIPMENT REPAIRS AND MAINTENANCE ARE ALSO INCLUDED IN THE TOTAL MEAL COST IN THE ACCOUNTING PERIOD IN WHICH THE WORK IS COMPLETED.

### **FIXED COSTS (OVERHEAD) CALCULATION**

- AS FIXED COSTS ARE COSTS THAT REMAIN CONSTANT IN THE SHORT RUN EVEN THOUGH REVENUE VOLUME MAY VARY, MANY EXPENSE ITEMS ARE INCORPORATED INTO FIXED COSTS.
- FIXED COSTS (OVERHEAD COSTS), INCLUDING UTILITIES, ARE AVAILABLE FROM DOCUMENTS SUCH AS BILLINGS AND CONTRACTS.
- IT IS NECESSARY FOR MULTI-SERVICE AGENCIES AND CENTERS TO IDENTIFY ALL COSTS NOT DIRECTLY ASSOCIATED WITH A PROGRAM AND SUM THOSE COSTS TO DETERMINE THEIR TOTAL FIXED COSTS.

### **FIXED COSTS (OVERHEAD) CALCULATION**

FIXED COSTS (OVERHEAD COSTS) INCLUDE ITEMS SUCH AS:

- ✓ COMMUNICATIONS (TELEPHONE, POSTAGE, INTERNET CONNECTIONS)
- **✓ COMPUTER SYSTEMS (HARDWARE AND SOFTWARE)**
- **✓ BUILDING COSTS (RENT OR DEPRECIATION, REPAIRS, MAINTENANCE)**
- ✓ GROUNDS MAINTENANCE (LANDSCAPING, PARKING AREAS/FACILITIES, FENCES, ETC.)
- **✓ FURNITURE AND FIXTURES**
- ✓ UTILITIES (ELECTRICITY, GAS, WATER, SEWER)
- **✓ CAPITAL EQUIPMENT DEPRECIATION**
- ✓ OPERATING COSTS (INSURANCE, LICENSES, TAXES, SUPPLIES, SMALL EQUIPMENT, SECURITY SYSTEM, GENERAL ADMINISTRATIVE EXPENSES FOR ALL PROGRAMS, ALL OTHER MISCELLANEOUS)
- ✓ A PORTION OF THE LABOR COSTS (ANY LABOR COSTS NOT DIRECTLY RELATED TO MEAL PROGRAMS)





- FIXED COSTS MUST BE ALLOCATED AMONG PROGRAMS ON SOME BASIS, SUCH AS SQUARE FOOTAGE, PROPORTION OF CLIENTS OR CLIENT REVENUE, OR OTHER BASIS APPROPRIATE TO THE SPECIFIC PROGRAMS HOUSED IN A MULTI-PURPOSE AGENCY OR CENTER.
- UTILITIES MAY NEED SPECIAL CONSIDERATION IN COST ALLOCATION AS FOOD PRODUCTION AREAS MAY USE A DISPROPORTIONATE SHARE OF ELECTRICITY, GAS, AND WATER FOR PRODUCTION EQUIPMENT, REFRIGERATORS, AND FREEZERS AND MAY ALSO ACCOUNT FOR ALMOST ALL OF THE TRASH DISPOSAL REQUIREMENTS.
  - ✓ LARGER PROGRAMS MAY WANT TO CONSIDER INSTALLATION OF SEPARATE METERS FOR ELECTRICITY, GAS, AND WATER FOR THE KITCHEN AREAS TO BETTER DETERMINE THE COST OF UTILITIES THAT SHOULD BE INCORPORATED INTO TOTAL MEAL COSTS.

### **CALCULATION OF ACTUAL (TOTAL) MEAL COSTS**

### **REMEMBER:**

✓ THE ACTUAL (OR TOTAL) MEAL COST FOR EITHER THE CONGREGATE OR THE HOME DELIVERED MEAL PROGRAM MUST INCLUDE THE COSTS DIRECTLY ASSOCIATED WITH THE PROGRAM (E.G., FOOD, LABOR, PACKAGING, TRANSPORTATION, ETC.) AND THE ALLOCATED PROPORTION OF THE MANAGEMENT AND OVERHEAD COSTS OF THE MULTI-SERVICE AGENCY OR CENTER.

TO CALCULATE THE ACTUAL (OR TOTAL) COST PER MEAL ONCE ALL THE COSTS OF THE MEAL COST COMPONENTS HAVE BEEN CALCULATED:

√THE ACTUAL (OR TOTAL) COST PER MEAL = TOTAL ACTUAL MEAL
COSTS FOR THE PERIOD DIVIDED BY TOTAL NUMBER OF MEALS
SERVED DURING THAT SAME PERIOD.

# CALCULATION OF ACTUAL (TOTAL) MEAL COSTS

FOR EXAMPLE, IF CALCULATED COSTS FOR THE ACCOUNTING PERIOD ARE:

 FOOD
 \$50,000

 SUPPLIES
 5,000

 LABOR (DIRECT)
 60,000

 TRANSPORTATION
 10,000

 EQUIPMENT
 3,000

 FIXED (OVERHEAD) COSTS
 12,000

 TOTAL COSTS
 \$140,000



NUMBER OF MEALS SERVED FOR THE PERIOD: 21,540 MEALS

ACTUAL MEAL (TOTAL) COST FOR THE PERIOD = \$140,000/21,540 = \$6.50/MEAL

(COMPARED TO FOOD COST PER MEAL FOR THE PERIOD = \$50,000/21,540 = \$2.32)

### **INCREMENTAL COST**

THE <u>INCREMENTAL COST</u> OF AN ITEM IS THE COST TO PRODUCE ONE MORE OF THAT ITEM, UNDER A GIVEN SET OF CONDITIONS.

IN THE PREVIOUS EXAMPLE, WHERE THE TOTAL MEAL COST WAS \$6.50 AND THE FOOD COST PER MEAL WAS \$2.32, ASSUMING NO ADDITIONAL LABOR OR RESOURCES WERE REQUIRED, OTHER THAN THE FOOD FOR THE MEAL, THEN THE INCREMENTAL COST OF PRODUCING AN ADDITIONAL MEAL WOULD BE ONLY THE FOOD COST, OR \$2.32.

ONE ADDITIONAL MEAL WOULD HAVE NO EFFECT ON THE OVERALL TOTAL MEAL COST, BUT IF A NUMBER OF ADDITIONAL MEALS COULD BE PRODUCED WITHOUT ADDING ADDITIONAL COSTS, OTHER THAN FOOD, THEN ADDING THESE MEALS WOULD EFFECTIVELY REDUCE THE OVERALL TOTAL MEAL COST AS THE OTHER COSTS (ESPECIALLY THE FIXED COSTS) REQUIRED TO PREPARE THE 21,540 MEALS WOULD BE SPREAD OVER MORE MEALS.

### **INCREMENTAL COST**

FOR EXAMPLE, ASSUME YOU COULD CONTRACT WITH YOUR LOCAL SALVATION ARMY SHELTER TO PROVIDE THEM WITH 50 MEALS/DAY, MONDAY THROUGH FRIDAY, AND THEY WERE PLEASED TO HAVE YOU PROVIDE THE SAME MEAL YOU ARE SERVING AT YOUR CONGREGATE MEAL SITE. THE SHELTER HAS A VAN THAT THEY WILL USE TO COME TO YOUR KITCHEN AND PICK UP THE MEALS. YOU WILL NEED TO PURCHASE NEW EQUIPMENT, THOUGH, TO PACK THE MEALS INTO FOR TRANSPORT, AND IN ADDITION TO FOOD, YOU WILL HAVE TO USE MORE OF YOUR DISPOSABLE CONTAINERS FOR HOLDING THE INDIVIDUAL MEALS. NO ADDITIONAL LABOR IS REQUIRED AS YOU HAVE EXCESS LABOR TIME THAT CAN BE USED PRODUCTIVELY TO PREPARE AND PACKAGE THESE MEALS.

= \$2.55

### **INCREMENTAL COSTS FOR THESE MEALS:**

TOTAL INCREMENTAL COST/MEAL

FOOD \$50,000/21,540 = \$2.32 SUPPLIES \$5,000/21,540 = 0.23



### **INCREMENTAL COST**



IMPACT OF PREPARING/SERVING THESE ADDITIONAL MEALS ON TOTAL MEAL COST:

- ASSUMING 4 WEEKS/MONTH, TOTAL NUMBER OF ADDITIONAL MEALS =
- 4 WEEKS X 5 DAYS PER WEEK X 50 MEALS/DAY = 1000 MEALS
- ADDITIONAL FOOD COSTS = 1000 X \$2.32 = \$2,320 FOR A TOTAL FOOD COST FOR THE
- PERIOD OF \$50,000 + \$2,320 = \$52,320
- ADDITIONAL SUPPLY COSTS = 1000 X \$0.23 = \$230 FOR A TOTAL SUPPLY COST FOR THE PERIOD OF \$5,000 + \$230 = \$5,230
- NEW TOTAL MEAL COSTS = \$140,000 + \$2,320 + \$230 = \$142,550

NEW TOTAL MEAL COSTS/NEW MEAL TOTAL = NEW TOTAL MEAL COST \$142,550/22,540 (21,540 + 1000 NEW MEALS) = \$6.32

THUS, YOU REALIZE A TOTAL MEAL COST SAVINGS OF \$0.18/MEAL ON ALL 22,540 MEALS FROM THIS OPPORTUNITY AS YOU ARE USING YOUR ALREADY INVESTED COSTS MORE EFFECTIVELY.

### **INCREMENTAL COST**



- LOOKING AT THE SALVATION ARMY SHELTER MEAL CONTRACT OPPORTUNITY ANOTHER WAY:
- ASSUME THAT THE SALVATION ARMY HAS AGREED TO PAY YOU \$8.00/MEAL FOR THESE MEALS.
- YOUR NEW REVENUE PER MONTH IS \$8.00 X 1000 MEALS = \$8,000
- YOUR ADDITIONAL COST TO PRODUCE THAT REVENUE IS THE TOTAL INCREMENTAL COST INCURRED X THE NUMBER OF MEALS SERVED = \$2.55 X 1000 = \$2,550
- YOUR PROFIT, OR NEW REVENUE GAINED TO HELP COVER PROGRAM COSTS =
- \$8,000 \$2,550 = \$5,450
- IF YOU HAD A CLIENT WAITING LIST, WITH THAT NEW REVENUE, YOU COULD SERVE ABOUT AN ADDITIONAL 40 CLIENTS PER MONTH

(ASSUMING 5 MEALS/WEEK, OVER A 4 WEEK PERIOD AND A TOTAL MEAL COST RANGING FROM \$6.32 - \$6.50/MEAL)

### **INCREMENTAL COST**

- HOWEVER, STILL CONSIDERING THE SAME SALVATION ARMY SHELTER SCENARIO, ASSUME THAT
  THE SALVATION ARMY IS UNWILLING TO PAY \$8.00 PER MEAL, BUT IS ONLY WILLING TO PAY
  \$4.50 PER MEAL POINTING OUT THAT AMOUNT IS TWICE YOUR FOOD COSTS.
- \$4.50 PER MEAL IS LESS THAN YOUR TOTAL MEAL COST OF \$6.32, WHICH IS WHAT IT WOULD ACTUALLY COST YOU TO PREPARE THE MEALS FOR THE SALVATION ARMY CENTER.
- THUS, YOU WOULD LOSE \$1.82 PER MEAL OR \$1,820 PER MONTH SHOULD YOU CONTRACT WITH THE SALVATION ARMY TO PROVIDE THOSE MEALS.
- YOUR "PROFIT" FROM TAKING THIS CONTRACT, STILL CONSIDERING YOUR INCREMENTAL COSTS
   (\$2,550) TO PROVIDE THESE MEALS, NOW BECOMES:
   \$4,500 \$2,550 \$1,820 = \$130.00

WOULD YOU WANT TO CONTRACT FOR THESE MEALS?????

WHAT IF YOU NEEDED A DELIVERY VEHICLE? MORE LABOR?



### **SUMMARY**

- > IT IS ESSENTIAL FOR PROGRAMS TO KNOW THEIR TOTAL MEAL COST AND THE COSTS OF EACH OF THE MEAL COST COMPONENTS IF THEY ARE TO STAY IN BUSINESS AND BE COMPETITIVE IN TODAY'S ENVIRONMENT
- > FOOD COSTS ARE NOT THE SAME AS TOTAL MEAL COSTS AS FOOD COSTS ARE JUST ONE COMPONENT OF TOTAL MEAL COSTS
- ➤ A PROGRAM'S GOAL SHOULD BE EFFECTIVE COST MANAGEMENT NOT MANAGEMENT TO MINIMIZE COSTS WITH A RESULTING LOSS IN PROGRAM AND MEAL QUALITY
- > FOOD AND DIRECT LABOR COSTS ARE GENERALLY THE LARGEST COMPONENTS OF THE TOTAL MEAL COST, AND EFFECTIVE CONTROL OF BOTH IS OFTEN EASILY LOST. YET, FOOD AND DIRECT LABOR COSTS ARE VARIABLE COSTS WHICH CAN BE CONTROLLED BY PROGRAM MANAGEMENT IN THE SHORT RUN

