## *New Formulas*

| Formula Title | Formula Address | Formula |
|---|---|---|
| Percentage of DLC Lines Requiring Extended Range Line Cards | New Distribution : 102 | IF (GridPlantType = "Cable",0, ( (PctULQReqExRange * (ULQHouseholds + ULQBusinessLines) ) + (PctLLQReqExRange * (LLQHouseholds + LLQBusinessLines) ) + (PctURQReqExRange * (URQHouseholds + URQBusinessLines) ) + (PctLRQReqExRange * (LRQHouseholds + LRQBusinessLines) ) ) / MAX (1, ( (ULQHouseholds + ULQBusinessLines) + (LLQHouseholds + LLQBusinessLines) + (URQHouseholds + URQBusinessLines) + (LRQHouseholds + LRQBusinessLines) ) ) ) |
| Percentage of ULQ Lines Requiring Extended Range Line Cards | New Distribution : 103 | IF (ULQHorizontalfttoRoadCentroid + ULQverticalfttoRoadCentroid > BreakPointExRange,1,IF (ULQHorizontalfttoRoadCentroid + ULQverticalfttoRoadCentroid + 1.5 * ULQBackboneandBranchCableLength < BreakPointExRange,0,1 - ( (BreakPointExRange - (ULQHorizontalfttoRoadCentroid + ULQverticalfttoRoadCentroid) ) / (1.5 * ULQBackboneandBranchCableLength) ) ) ) |
| Percentage of LLQ Lines Requiring Extended Range Line Cards | New Distribution : 104 | IF (LLQHorizontalfttoRoadCentroid + LLQverticalfttoRoadCentroid > BreakPointExRange,1,IF (LLQHorizontalfttoRoadCentroid + LLQverticalfttoRoadCentroid + 1.5 * LLQBackboneBranchCableLength < BreakPointExRange,0,1 - ( (BreakPointExRange - (LLQHorizontalfttoRoadCentroid + LLQverticalfttoRoadCentroid) ) / (1.5 * LLQBackboneBranchCableLength) ) ) ) |

| | | |
|---|---|---|
| :ntage of URQ Lines Requiring Extended ;e Line Cards | New Distribution : 105 | IF (URQHorizontalfttoRoadCentroid + URQverticalfttoRoadCentroid > BreakPointExRange,1,IF (URQHorizontalfttoRoadCentroid + URQverticalfttoRoadCentroid + 1.5 * URQBackboneBranchCableLength < BreakPointExRange,0,1 - ( (BreakPointExRange - (URQHorizontalfttoRoadCentroid + URQverticalfttoRoadCentroid) ) / (1.5 * URQBackboneBranchCableLength) ) ) ) |
| :rcentage of LRQ Lines Requiring Extended ange Line Cards | New Distribution : 106 | IF (LRQHorizontalfttoRoadCentroid + LRQverticalfttoRoadCentroid > BreakPointExRange,1,IF (LRQHorizontalfttoRoadCentroid + LRQverticalfttoRoadCentroid + 1.5 * LRQBackboneBranchCableLength < BreakPointExRange,0,1 - ( (BreakPointExRange - (LRQHorizontalfttoRoadCentroid + LRQverticalfttoRoadCentroid) ) / (1.5 * LRQBackboneBranchCableLength) ) ) ) |

## *Formula Deletes*

| Formula Title | Formula Address | Formula |
|---|---|---|
| Switched Lines Equipped | Switching : 2 | SwitchedLinesInGrid |
| Total Lines Equipped In Switch | Switching : 3 | SUMIF (OFFSET (SwitchingCLLI,0,0,LastDataRow,1) ,CLLI,OFFSET (SwitchingSwitchedLinesEquipped,0,0,LastDataRow,1) ) |
| Fixed Cost/Ln | Switching : 4 | IF (TotalLinesEquippedInSwitch = 0,0, (VLOOKUP (CompanySize,COSwitchCostTable,2) * TrfSen) / TotalLinesEquippedInSwitch * (1 + VLOOKUP (CompanySize,COSwitchCostTable,6) ) ) |
| Variable Cost Per Line | Switching : 5 | VLOOKUP (CompanySize,COSwitchCostTable,3) / SwitchFillFactor * TrfSen * (1 + VLOOKUP (CompanySize,COSwitchCostTable,6) ) |

| | | |
|---|---|---|
| Total Line Cost | Switching : 6 | SwitchingFixedCostPerLine + SwitchingVariableCostPerLine |
| Total Switch Investment | Switching : 7 | SwitchedLinesInGrid * SwitchingTotalLineCost |
| 2111 Land Investment | Output : 23 | SwitchingTotalInvestment * SwLandFactor |
| 2121 Building Investment | Output : 24 | SwitchingTotalInvestment * SwBldgFactor |
| 2210 Central Office Switching Investment | Output : 25 | SwitchingTotalInvestment |
| Uncapped 2230 Total DLC, DS1 Electronic Investment | Output : 26 | TotalElectronics |
| 2230 Uncapped Interoffice Facilities | Output : 27 | SwitchingTotalInvestment * InterofficeSwRatio |
| Uncapped Total Circuit | Output : 28 | TotalDLCDS1Investment + TotalInterOfficeFacilities |
| UnCapped NID Cost | Output : 29 | TotalGridNIDCost |
| UnCapped 2421 Aerial Copper Cable Investment | Output : 30 | AerialCopperCableInvestment |
| UnCapped 2422 Underground Copper Cable Investment | Output : 31 | UndergroundCopperCableInvestment |
| UnCapped 2423 Buried Copper Cable Investment | Output : 32 | BuriedCopperCableInvestment |
| UnCapped 2421 Aerial Fiber Cable Investment | Output : 33 | AerialFiberCableInvestment |
| UnCapped 2422 Underground Fiber Cable Investment | Output : 34 | UndergroundFiberCableInvestment |
| UnCapped 2423 Buried Fiber Cable Investment | Output : 35 | BuriedFiberCableInvestment |
| UnCapped 2411 Pole Line Investment | Output : 36 | PoleInvestmentAssignedCopper + PoleInvestmentAssignedFiber |
| UnCapped 2441 Conduit Investment | Output : 37 | ConduitInvestmentAssignedCopper + ConduitInvestmentAssignedFiber |
| Aerial Route Length | Output : 38 | MainFdrSegmentAerDistance + SubfeederAERDistance + Pt2AerialCopperDistance + Pt2AerialFiberDistance + TotalAerialDLCFDICableDistance + TotalAerialCableDistributionDistance |
| Buried Route Length | Output : 39 | MainFdrSegmentBurDistance + SubfeederBURDistance + Pt2BuriedCopperDistance + Pt2BuriedFiberDistance + TotalburiedDLCFDICableDistance + TotalBuriedCableDistributionDistance |

| | | |
|---|---|---|
| Underground Route Length | Output : 40 | MainFdrSegmentUGDistance + SubfeederUGDistance + Pt2UGCopperDistance + Pt2UGFiberDistance + ULQUGCableDistance + LLQUGCableDistance + LeftSideCommonUGCableDistance + URQUGCableDistance + LRQUGCableDistance + RightSideCommonUGCableDistance + ULQBranchBackboneUGDistance * (NumberULQbranchcables + 1 / 2) + LLQBranchBackboneUGDistance * (NumberLLQbranchcables + 1 / 2) + URQBranchBackboneUGDistance * (NumberURQbranchcables + 1 / 2) + LRQBranchBackboneUGDistance * (NumberLRQbranchcables + 1 / 2) |
| Number of Poles | Output : 41 | NumberMainFdrPoles + NumberSubfeederPoles + ( (Pt2AerialCopperDistance + Pt2AerialFiberDistance) / VLOOKUP (Density,FeederSpacingTable,3) ) + NumberofDLCFDIPoles + NumberPolesForDistribution |
| Number of Manholes | Output : 42 | NumberMainFdrManholes + NumberSubfeederManholes + NumberSubFdrPt2Manholes + URQManholes + LRQManholes + RightSideCommonManholes + ULQManholes + LLQManholes + LeftSideCommonManholes + LRQBackboneManholes + LRQBranchManholes + URQBackboneManholes + URQBranchManholes + LLQBackboneManholes + LLQBranchManholes + ULQBackboneManholes + ULQBranchManholes |
| Grid Lines Served on DLC-L | Output : 43 | IF (GridPlantType = "DLC - L",TotalWorkingLinesServedInGrid,0) |
| Grid Lines Served on DLC-S | Output : 44 | IF (GridPlantType = "DLC - S",TotalWorkingLinesServedInGrid,0) |
| Grid Lines Served on Copper | Output : 45 | IF (GridPlantType = "Cable",TotalWorkingLinesServedInGrid,0) |

| | | |
|---|---|---|
| ber of DLC-L Terminals | Output : 46 | IF (GridPlantType = "DLC - L",NumberDLCLsatFullCapacity + IF (SwitchedLinesinOverflowDLCLTerminal > 0,1,0) ,0) |
| nber of DLC-S Terminals | Output : 47 | IF (GridPlantType = "DLC - S", 1,0) |

## ormula Moves

| ormula Title | New Address | Old Address |
|---|---|---|
| lli | Output : 1 | Switching : 1 |

## Label Changes

| New Formula Title | Old Formula Title | Formula |
|---|---|---|
| Clli | CLLI | CLLI |

# BCPM

# Release 3.0

# Excel Logic Report Calculations

# Workbook: E:\bcpm3 Master Copy\Modules\rptcalc\Rptcalc.xls

File date: 12/11/97 3:48:28 AM
Comments:

**Worksheets:**
Inputs
Inputs-Switching
Inputs-Transport
Investment
Support Investment
Annual Cost Factors
Depreciation
Return
Tax
Expenses Res
Expenses Bus
Aggregate Support
Output
Expense Inputs
State Specific Inputs
Signaling Inputs
Capital Cost Inputs
Company Inputs

## Sheet: Inputs

| Col | Range Name | Column Name | Column Comment | Formula | Formula Comment |
|---|---|---|---|---|---|
| A | Clli | Clli | | | |
| B | StateId | State Id | | | |
| C | CoSize | Company Size | | | |
| D | Density | Density | | | |
| E | FDICode | FDI Code | | | |
| F | AvgDistrLength | Lines Times Average Distribution Length | | | |

| | | | | | |
|---|---|---|---|---|---|
| **G** | AvgFeederLength | Lines Times Average Feeder Length | | | |
| **H** | SqMiles | Area-sq Miles | | | |
| **I** | CappedCostFactor | Capped Cost Factor | | | |
| **J** | ResLines | Residence Lines | | | |
| **K** | SingleBusLines | Single Business Lines | | | |
| **L** | HouseHolds | Total House Holds | | | |
| **M** | BusLines | Total Business Lines | | | |
| **N** | GridLines | Total Lines Served in Grid | | | |
| **O** | AvgLoopLength | Average Loop Length | | | |
| **P** | LinesLoopLength | Total Lines Loop Length | | | |
| **Q** | DistrCost | Total Distribution Cost | | | |
| **R** | FeederCost | Grand Total Feeder Cost | | | |
| **S** | LoopCost | UnCapped Total Loop Cost | | | |
| **T** | PerLineCost | Actual Loop Cost Per Line | | | |
| **U** | CapPerLineCost | Capped Loop Cost Per Line | | | |
| **V** | CapLoopCost | Capped Total Loop Cost | | | |
| **W** | | 2111 Land Investment COLUMN NOT USED IN BCPM3.0 | | | |

| | | | | | |
|---|---|---|---|---|---|
| **X** | | 2121 Building Investment COLUMN NOT USED IN BCPM3.0 | | | |
| **Y** | | 2210 Central Office Switching Investment COLUMN NOT USED IN BCPM3.0 | | | |
| **Z** | CircuitInv | Uncapped 2230 Total DLC, DS1 Electronic Investment | | | |
| **AA** | | 2230 Uncapped Interoffice Facilities COLUMN NOT USED IN BCPM3.0 | | | |
| **AB** | TotalElectronics | Uncapped Total Circuit | | | |
| **AC** | NIDCost | UnCapped NID Cost | | | |
| **AD** | AerialCopperInv | UnCapped 2421 Aerial Copper Cable Investment | | | |
| **AE** | UndergndCopperInv | UnCapped 2422 Underground Copper Cable Investment | | | |
| **AF** | BuriedCopperInv | UnCapped 2423 Buried Copper Cable Investment | | | |

| | | | | | |
|---|---|---|---|---|---|
| **AG** | AerialFiberInv | UnCapped 2421 Aerial Fiber Cable Investment | | | |
| **AH** | UndergndFiber Inv | UnCapped 2422 Underground Fiber Cable Investment | | | |
| **AI** | BuriedFiberIn v | UnCapped 2423 Buried Fiber Cable Investment | | | |
| **AJ** | PoleInv | UnCapped 2411 Pole Line Investment | | | |
| **AK** | ConduitInv | UnCapped 2441 Conduit Investment | | | |
| **AL** | AerialRouteLe ngth | Aerial Route Length | | | |
| **AM** | BuriedRouteL ength | Buried Route Length | | | |
| **AN** | UndergroundR outeLength | Underground Route Length | | | |
| **AO** | NumberofPole s | Number of Poles | | | |
| **AP** | NumberofMan holes | Number of Manholes | | | |
| **AQ** | GridLinesServ edonDLC_L | Grid Lines Served on DLC-L | | | |
| **AR** | GridLinesServ edonDLC_S | Grid Lines Served on DLC-S | | | |
| **AS** | GridLinesServ edonCopper | Grid Lines Served on Copper | | | |
| **AT** | NumberofDLC _LTerminals | Number of DLC-L Terminals | | | |

| | | | | | |
|---|---|---|---|---|---|
| AU | NumberofDLC _STerminals | Number of DLC-S Terminals | | | |
| | | | | | |

## Sheet: Inputs-Switching

| Col | Range Name | Column Name | Column Comment | Formula | Formula Comment |
|---|---|---|---|---|---|
| A | SwitchCLLI | Clli | | | |
| B | SwitchInvLine | 2210 Switch Line | | | |
| C | SwitchInvUsage | 2210 Switch Usage | | | |
| D | LandInvLine | 2111 Land Investment Line | | | |
| E | LandInvUsage | 2111 Land Investment Usage | | | |
| F | BldgInvLine | 2121 Building Investment Line | | | |
| G | BldgInvUsage | 2121 Building Investment Usage | | | |
| H | Tandem | 2210 Switch Tandem | | | |
| I | LandInvTandem | 2111 Land Investment Tandem | | | |
| J | BldgInvTandem | 2121 Building Investment Tandem | | | |
| | | | | | |

## Sheet: Inputs-Transport

| Col | Range Name | Column Name | Column Comment | Formula | Formula Comment |
|---|---|---|---|---|---|
| A | TransportCLLI | Clli | | | |
| B | IOFInvLine | 2232 Trasport Line | | | |
| | | | | | |

## Sheet: Investment

| Col | Range Name | Column Name | Column Comment | Formula | Formula Comment |
|---|---|---|---|---|---|
| A | CableAndWireInv | UnCapped 2410 Cable and Wire Investments | | = AerialCopperInv + BuriedCopperInv + UndergndCopperInv + AerialFiberInv + BuriedFiberInv + UndergndFiberInv + PoleInv + ConduitInv | |
| B | SigInv | Signaling Investment | | = ResLines * IF (ISNA (HLOOKUP (CoSize, SignalingInvestmentsLookup, 1) ) , 0, HLOOKUP (CoSize, SignalingInvestmentsLookup, 1) + BusLines * HLOOKUP (CoSize, SignalingInvestmentsLookup, 2) ) | |
| C | SWInv | 2210 Uncapped Switching and Signaling Investment | | = (IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 2) ) , 0, VLOOKUP (CLLI, SwitchingTable, 2) ) + IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 3) ) , 0, VLOOKUP (CLLI, SwitchingTable, 3) ) + IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 8) ) , 0, VLOOKUP (CLLI, SwitchingTable, 8) ) ) * (BusLines + ResLines) + SigInv | |
| D | IOFInv | 2232 Uncapped IOF Investment | | = IF (ISNA (VLOOKUP (CLLI, TransportTable, 2) ) , 0, VLOOKUP (CLLI, TransportTable, 2) ) * (BusLines + ResLines) | |
| E | BldgInv | 2121 Uncapped Building Investment | | = (IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 6) ) , 0, VLOOKUP (CLLI, SwitchingTable, 6) ) + IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 7) ) , 0, VLOOKUP (CLLI, SwitchingTable, 7) ) + IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 10) ) , 0, VLOOKUP (CLLI, SwitchingTable, 10) ) ) * (BusLines + ResLines) | |
| F | LandInv | 2111 Uncapped Land Investment | | = (IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 4) ) , 0, VLOOKUP (CLLI, SwitchingTable, 4) ) + IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 5) ) , 0, VLOOKUP (CLLI, SwitchingTable, 5) ) + IF (ISNA (VLOOKUP (CLLI, SwitchingTable, 10) ) , 0, VLOOKUP (CLLI, SwitchingTable, 9) ) ) * (BusLines + ResLines) | |
| G | InvExLandBldgSupport | Total Investment Excluding Land & Buildings & Support | | = CableAndWireInv + SwitchInv + CircuitInv + IOFInv | |
| H | TotalTelephonePlantInv | UnCapped Total Telephone Plant Investment | | = InvExLandBldgSupport + OtherInvInclLandBldg | |
| I | CapCircuitInv | Capped 2230 Circuit Investment | | = CappedCostFactor * CircuitInv | |

| | | | | | |
|---|---|---|---|---|---|
| **J** | CapAerialCopperInv | Capped 2421 Aerial Copper Cable Investment | | = CappedCostFactor * AerialCopperInv | |
| **K** | CapUndergndCopperInv | Capped 2422 Underground Copper Cable Investment | | = CappedCostFactor * UndergndCopperInv | |
| **L** | CapBuriedCopperInv | Capped 2423 Buried Copper Cable Investment | | = CappedCostFactor * BuriedCopperInv | |
| **M** | CapAerialFiberInv | Capped 2421 Aerial Fiber Cable Investment | | = CappedCostFactor * AerialFiberInv | |
| **N** | CapUndergndFiberInv | Capped 2422 Underground Fiber Cable Investment | | = CappedCostFactor * UndergndFiberInv | |
| **O** | CapBuriedFiberInv | Capped 2423 Buried Fiber Cable Investment | | = CappedCostFactor * BuriedFiberInv | |
| **P** | CapPoleInv | Capped 2411 Pole Line Investment | | = CappedCostFactor * PoleInv | |
| **Q** | CapConduitInv | Capped 2441 Conduit Investment | | = CappedCostFactor * ConduitInv | |
| **R** | CapCableAndWireInv | Capped 2410 Total Cable and Wire Investments | | = CapAerialCopperInv + CapBuriedCopperInv + CapUndergndCopperInv + CapAerialFiberInv + CapBuriedFiberInv + CapUndergndFiberInv + CapPoleInv + CapConduitInv | |

| | | | | | |
|---|---|---|---|---|---|
| | CapInvExLand BldgSupport | Capped Total Investment Excluding Land & Buildings & Support | | = CapCableAndWireInv + SwitchInv + CapCircuitInv + IOFInv | |
| | | Capped Total Telephone Plant Investment | | = CapInvExLandBldgSupport + CapOtherInvInclLandBldg | |
| | | | | | |

## Sheet: Support Investment

| Col | Range Name | Column Name | Column Comment | Formula | Formula Comment |
|---|---|---|---|---|---|
| A | MotorVehSupport | UnCapped 2112 Motor Vehicles | | = InvExLandBldgSupport * OFFSET (SupportRatio, 0, CoSize) | |
| B | SPVehSupport | UnCapped 2114 Special Purpose Vehicles | | = InvExLandBldgSupport * OFFSET (SupportRatio, 1, CoSize) | |
| C | GarageWorkSupport | UnCapped 2115 Garage Work Equipment | | = InvExLandBldgSupport * OFFSET (SupportRatio, 2, CoSize) | |
| D | OtherWorkSupport | UnCapped 2116 Other Work Equipment | | = InvExLandBldgSupport * OFFSET (SupportRatio, 3, CoSize) | |
| E | NetworkSupport | UnCapped 2110 Network Support | | = LandInv + MotorVehSupport + SPVehSupport + GarageWorkSupport + OtherWorkSupport | |
| F | FurnitureSupport | UnCapped 2122 Furniture Support Investment | | = InvExLandBldgSupport * OFFSET (SupportRatio, 4, CoSize) | |
| G | OfficeSupport | UnCapped 2123 Office Support Investment | | = InvExLandBldgSupport * OFFSET (SupportRatio, 5, CoSize) | |
| H | GPComputersSupport | UnCapped 2124 General Purpose Computers | | = InvExLandBldgSupport * OFFSET (SupportRatio, 6, CoSize) | |
| I | GeneralSupport | UnCapped 2120 General Support | | = BldgInv + FurnitureSupport + OfficeSupport + GPComputersSupport | |
| J | OtherInvInclLandBldg | UnCapped 2110 Land and Support Investment | | = NetworkSupport + GeneralSupport | |

| | | | | | |
|---|---|---|---|---|---|
| **K** | CapMotorVeh Support | Capped 2112 Motor Vehicles | | = CapInvExLandBldgSupport * OFFSET (SupportRatio, 0, CoSize) | |
| **L** | CapSPVehSup port | Capped 2114 Special Purpose Vehicles | | = CapInvExLandBldgSupport * OFFSET (SupportRatio, 1, CoSize) | |
| **M** | CapGarageWo rkSupport | Capped 2115 Garage Work Equipment | | = CapInvExLandBldgSupport * OFFSET (SupportRatio, 2, CoSize) | |
| **N** | CapOtherWor kSupport | Capped 2116 Other Work Equipment | | = CapInvExLandBldgSupport * OFFSET (SupportRatio, 3, CoSize) | |
| **O** | CapNetworkSu pport | Capped 2110 Network Support | | = LandInv + CapMotorVehSupport + CapSPVehSupport + CapGarageWorkSupport + CapOtherWorkSupport | |
| **P** | CapFurnitureS upport | Capped 2122 Furniture Support Investment | | = CapInvExLandBldgSupport * OFFSET (SupportRatio, 4, CoSize) | |
| **Q** | CapOfficeSup port | Capped 2123 Office Support Investment | | = CapInvExLandBldgSupport * OFFSET (SupportRatio, 5, CoSize) | |
| **R** | CapGPComput ersSupport | Capped 2124 General Purpose Computers | | = CapInvExLandBldgSupport * OFFSET (SupportRatio, 6, CoSize) | |
| **S** | CapGeneralSu pport | Capped 2120 General Support | | = BldgInv + CapFurnitureSupport + CapOfficeSupport + CapGPComputersSupport | |
| **T** | CapOtherInvIn clLandBldg | Capped 2110 Land and Support Investment | | = CapNetworkSupport + CapGeneralSupport | |
| | | | | | |

## Sheet: Annual Cost Factors

| Col | Range Name | Column Name | Column Comment | Formula | Formula Comment |
|---|---|---|---|---|---|
| A | AcfLand | 2111 Land Investment | | = LandInv * OFFSET (AnnualCostFactor, LandOffset, 0) | |
| B | AcfBldg | 2121 Building Investment | | = BldgInv * OFFSET (AnnualCostFactor, BldgOffset, 0) | |
| C | AcfMotorVeh Support | UnCapped 2112 Motor Vehicles | | = MotorVehSupport * OFFSET (AnnualCostFactor, MotorVehOffset, 0) | |
| D | AcfSPVehSup port | UnCapped 2114 Special Purpose Vehicles | | = SPVehSupport * OFFSET (AnnualCostFactor, SPVehOffset, 0) | |
| E | AcfGarageWo rkSupport | UnCapped 2115 Garage Work Equipment | | = GarageWorkSupport * OFFSET (AnnualCostFactor, GarageWorkOffset, 0) | |
| F | AcfOtherWork Support | UnCapped 2116 Other Work Equipment | | = OtherWorkSupport * OFFSET (AnnualCostFactor, OtherWorkOffset, 0) | |
| G | AcfFurnitureS upport | UnCapped 2122 Furniture Support Investment | | = FurnitureSupport * OFFSET (AnnualCostFactor, FurnitureOffset, 0) | |
| H | AcfOfficeSupp ort | UnCapped 2123 Office Support Investment | | = OfficeSupport * OFFSET (AnnualCostFactor, OfficeOffset, 0) | |
| I | AcfGPComput ersSupport | UnCapped 2124 General Purpose Computers | | = GPComputersSupport * OFFSET (AnnualCostFactor, GPComputersOffset, 0) | |
| J | AcfSwitch | 2210 Total Switch Investment | | = SwitchInv * OFFSET (AnnualCostFactor, SwitchOffset, 0) | |
| K | AcfCircuit | UnCapped 2230 Circuit Investment | | = CircuitInv * OFFSET (AnnualCostFactor, CircuitOffset, 0) | |

| | | | | | |
|---|---|---|---|---|---|
| L | AcfIof | 2230 IOF Investment | | = IOFInv * OFFSET (AnnualCostFactor, CircuitOffset, 0) | |
| M | AcfAerialCopper | UnCapped 2421 Aerial Copper Cable Investment | | = AerialCopperInv * OFFSET (AnnualCostFactor, AerialCopperOffset, 0) | |
| N | AcfUndergndCopper | UnCapped 2422 Underground Copper Cable Investment | | = UndergndCopperInv * OFFSET (AnnualCostFactor, UndergndCopperOffset, 0) | |
| O | AcfBuriedCopper | UnCapped 2423 Buried Copper Cable Investment | | = BuriedCopperInv * OFFSET (AnnualCostFactor, BuriedCopperOffset, 0) | |
| P | AcfAerialFiber | UnCapped 2421 Aerial Fiber Cable Investment | | = AerialFiberInv * OFFSET (AnnualCostFactor, AerialFiberOffset, 0) | |
| Q | AcfUndergndFiber | UnCapped 2422 Underground Fiber Cable Investment | | = UndergndFiberInv * OFFSET (AnnualCostFactor, UndergndFiberOffset, 0) | |
| R | AcfBuriedFiber | UnCapped 2423 Buried Fiber Cable Investment | | = BuriedFiberInv * OFFSET (AnnualCostFactor, BuriedFiberOffset, 0) | |
| S | AcfPole | UnCapped 2411 Pole Line Investment | | = PoleInv * OFFSET (AnnualCostFactor, PoleOffset, 0) | |
| T | AcfConduit | UnCapped 2441 Conduit Investment | | = ConduitInv * OFFSET (AnnualCostFactor, ConduitOffset, 0) | |
| U | AcfAnnualCapitalCost | Uncapped Total Annual Capital Cost | | = AcfLand + AcfBldg + AcfMotorVehSupport + AcfSPVehSupport + AcfGarageWorkSupport + AcfOtherWorkSupport + AcfFurnitureSupport + AcfOfficeSupport + AcfGPComputersSupport + AcfSwitch + AcfCircuit + AcfIof + AcfAerialCopper + AcfUndergndCopper + AcfBuriedCopper + AcfAerialFiber + AcfUndergndFiber + AcfBuriedFiber + AcfPole + AcfConduit | |
| V | AcfMonthlyCapitalCost | UnCapped Monthly Capital Cost | | = IF (GridLines = 0, 0, AcfAnnualCapitalCost / GridLines / 12) | |

| | | | | | |
|---|---|---|---|---|---|
| **W** | CapAcfMotor VehSupport | Capped 2112 Motor Vehicles | | = CapMotorVehSupport * OFFSET (AnnualCostFactor, MotorVehOffset, 0) | |
| **X** | CapAcfSPVeh Support | Capped 2114 Special Purpose Vehicles | | = CapSPVehSupport * OFFSET (AnnualCostFactor, SPVehOffset, 0) | |
| **Y** | CapAcfGarage WorkSupport | Capped 2115 Garage Work Equipment | | = CapGarageWorkSupport * OFFSET (AnnualCostFactor, GarageWorkOffset, 0) | |
| **Z** | CapAcfOther WorkSupport | Capped 2116 Other Work Equipment | | = CapOtherWorkSupport * OFFSET (AnnualCostFactor, OtherWorkOffset, 0) | |
| **AA** | CapAcfFurnitu reSupport | Capped 2122 Furniture Support Investment | | = CapFurnitureSupport * OFFSET (AnnualCostFactor, FurnitureOffset, 0) | |
| **AB** | CapAcfOffice Support | Capped 2123 Office Support Investment | | = CapOfficeSupport * OFFSET (AnnualCostFactor, OfficeOffset, 0) | |
| **AC** | CapAcfGPCo mputersSuppor t | Capped 2124 General Purpose Computers | | = CapGPComputersSupport * OFFSET (AnnualCostFactor, GPComputersOffset, 0) | |
| **AD** | CapAcfCircuit | Capped 2230 Circuit Investment | | = CapCircuitInv * OFFSET (AnnualCostFactor, CircuitOffset, 0) | |
| **AE** | CapAcfAerial Copper | Capped 2421 Aerial Copper Cable Investment | | = CapAerialCopperInv * OFFSET (AnnualCostFactor, AerialCopperOffset, 0) | |
| **AF** | CapAcfUnderg ndCopper | Capped 2422 Underground Copper Cable Investment | | = CapUndergndCopperInv * OFFSET (AnnualCostFactor, UndergndCopperOffset, 0) | |

| | | | | | |
|---|---|---|---|---|---|
| **AG** | CapAcfBuried Copper | Capped 2423 Buried Copper Cable Investment | | = CapBuriedCopperInv * OFFSET (AnnualCostFactor, BuriedCopperOffset, 0) | |
| **AH** | CapAcfAerialFiber | Capped 2421 Aerial Fiber Cable Investment | | = CapAerialFiberInv * OFFSET (AnnualCostFactor, AerialFiberOffset, 0) | |
| **AI** | CapAcfUndergndFiber | Capped 2422 Underground Fiber Cable Investment | | = CapUndergndFiberInv * OFFSET (AnnualCostFactor, UndergndFiberOffset, 0) | |
| **AJ** | CapAcfBuried Fiber | Capped 2423 Buried Fiber Cable Investment | | = CapBuriedFiberInv * OFFSET (AnnualCostFactor, BuriedFiberOffset, 0) | |
| **AK** | CapAcfPole | Capped 2411 Pole Line Investment | | = CapPoleInv * OFFSET (AnnualCostFactor, PoleOffset, 0) | |
| **AL** | CapAcfConduit | Capped 2441 Conduit Investment | | = CapConduitInv * OFFSET (AnnualCostFactor, ConduitOffset, 0) | |
| **AM** | CapAnnualCapitalCost | Capped Total Annual Capital Cost | | = AcfLand + AcfBldg + CapAcfMotorVehSupport + CapAcfSPVehSupport + CapAcfGarageWorkSupport + CapAcfOtherWorkSupport + CapAcfFurnitureSupport + CapAcfOfficeSupport + CapAcfGPComputersSupport + AcfSwitch + CapAcfCircuit + AcfIof + CapAcfAerialCopper + CapAcfUndergndCopper + CapAcfBuriedCopper + CapAcfAerialFiber + CapAcfUndergndFiber + CapAcfBuriedFiber + CapAcfPole + CapAcfConduit | |
| **AN** | CapMonthlyCapCost | Capped Monthly Capital Cost | | = IF (GridLines = 0, 0, CapAnnualCapitalCost / GridLines / 12) | |
| | | | | | |

## Sheet: Depreciation

| Col | Range Name | Column Name | Column Comment | Formula | Formula Comment |
|---|---|---|---|---|---|
| A | DepLand | 2111 Land Investment | | = LandInv * OFFSET (DepAnnualCostFactor, LandOffset, 0) | |
| B | DepBldg | 2121 Building Investment | | = BldgInv * OFFSET (DepAnnualCostFactor, BldgOffset, 0) | |
| C | DepMotorVehSupport | UnCapped 2112 Motor Vehicles | | = MotorVehSupport * OFFSET (DepAnnualCostFactor, MotorVehOffset, 0) | |
| D | DepSPVehSupport | UnCapped 2114 Special Purpose Vehicles | | = SPVehSupport * OFFSET (DepAnnualCostFactor, SPVehOffset, 0) | |
| E | DepGarageWorkSupport | UnCapped 2115 Garage Work Equipment | | = GarageWorkSupport * OFFSET (DepAnnualCostFactor, GarageWorkOffset, 0) | |
| F | DepOtherWorkSupport | UnCapped 2116 Other Work Equipment | | = OtherWorkSupport * OFFSET (DepAnnualCostFactor, OtherWorkOffset, 0) | |
| G | DepFurnitureSupport | UnCapped 2122 Furniture Support Investment | | = FurnitureSupport * OFFSET (DepAnnualCostFactor, FurnitureOffset, 0) | |
| H | DepOfficeSupport | UnCapped 2123 Office Support Investment | | = OfficeSupport * OFFSET (DepAnnualCostFactor, OfficeOffset, 0) | |
| I | DepGPComputersSupport | UnCapped 2124 General Purpose Computers | | = GPComputersSupport * OFFSET (DepAnnualCostFactor, GPComputersOffset, 0) | |
| J | DepSwitch | 2210 Total Switch Investment | | = SwitchInv * OFFSET (DepAnnualCostFactor, SwitchOffset, 0) | |
| K | DepCircuit | UnCapped 2230 Circuit Investment | | = CircuitInv * OFFSET (DepAnnualCostFactor, CircuitOffset, 0) | |

| | | | | | |
|---|---|---|---|---|---|
| **L** | DepIof | 2230 IOF Investment | | = IOFInv * OFFSET (DepAnnualCostFactor, CircuitOffset, 0) | |
| **M** | DepAerialCopper | UnCapped 2421 Aerial Copper Cable Investment | | = AerialCopperInv * OFFSET (DepAnnualCostFactor, AerialCopperOffset, 0) | |
| **N** | DepUndergnd Copper | UnCapped 2422 Underground Copper Cable Investment | | = UndergndCopperInv * OFFSET (DepAnnualCostFactor, UndergndCopperOffset, 0) | |
| **O** | DepBuriedCopper | UnCapped 2423 Buried Copper Cable Investment | | = BuriedCopperInv * OFFSET (DepAnnualCostFactor, BuriedCopperOffset, 0) | |
| **P** | DepAerialFiber | UnCapped 2421 Aerial Fiber Cable Investment | | = AerialFiberInv * OFFSET (DepAnnualCostFactor, AerialFiberOffset, 0) | |
| **Q** | DepUndergnd Fiber | UnCapped 2422 Underground Fiber Cable Investment | | = UndergndFiberInv * OFFSET (DepAnnualCostFactor, UndergndFiberOffset, 0) | |
| **R** | DepBuriedFiber | UnCapped 2423 Buried Fiber Cable Investment | | = BuriedFiberInv * OFFSET (DepAnnualCostFactor, BuriedFiberOffset, 0) | |
| **S** | DepPole | UnCapped 2411 Pole Line Investment | | = PoleInv * OFFSET (DepAnnualCostFactor, PoleOffset, 0) | |
| **T** | DepConduit | UnCapped 2441 Conduit Investment | | = ConduitInv * OFFSET (DepAnnualCostFactor, ConduitOffset, 0) | |
| **U** | AnnualDepCost | UnCapped Total Annual 6560 Depreciation | | = DepLand + DepBldg + DepMotorVehSupport + DepSPVehSupport + DepGarageWorkSupport + DepOtherWorkSupport + DepFurnitureSupport + DepOfficeSupport + DepGPComputersSupport + DepSwitch + DepCircuit + DepIof + DepAerialCopper + DepUndergndCopper + DepBuriedCopper + DepAerialFiber + DepUndergndFiber + DepBuriedFiber + DepPole + DepConduit | |

| | | | | | |
|---|---|---|---|---|---|
| **V** | MonthlyDepCost | UnCapped Monthly Depreciation Cost | | = IF (GridLines = 0, 0, AnnualDepCost / GridLines / 12) | |
| **W** | CapDepMotorVehSupport | Capped 2112 Motor Vehicles | | = CapMotorVehSupport * OFFSET (DepAnnualCostFactor, MotorVehOffset, 0) | |
| **X** | CapDepSPVehSupport | Capped 2114 Special Purpose Vehicles | | = CapSPVehSupport * OFFSET (DepAnnualCostFactor, SPVehOffset, 0) | |
| **Y** | CapDepGarageWorkSupport | Capped 2115 Garage Work Equipment | | = CapGarageWorkSupport * OFFSET (DepAnnualCostFactor, GarageWorkOffset, 0) | |
| **Z** | CapDepOtherWorkSupport | Capped 2116 Other Work Equipment | | = CapOtherWorkSupport * OFFSET (DepAnnualCostFactor, OtherWorkOffset, 0) | |
| **AA** | CapDepFurnitureSupport | Capped 2122 Furniture Support Investment | | = CapFurnitureSupport * OFFSET (DepAnnualCostFactor, FurnitureOffset, 0) | |
| **AB** | CapDepOfficeSupport | Capped 2123 Office Support Investment | | = CapOfficeSupport * OFFSET (DepAnnualCostFactor, OfficeOffset, 0) | |
| **AC** | CapDepGPComputersSupport | Capped 2124 General Purpose Computers | | = CapGPComputersSupport * OFFSET (DepAnnualCostFactor, GPComputersOffset, 0) | |
| **AD** | CapDepCircuit | Capped 2230 Circuit Investment | | = CapCircuitInv * OFFSET (DepAnnualCostFactor, CircuitOffset, 0) | |
| **AE** | CapDepAerialCopper | Capped 2421 Aerial Copper Cable Investment | | = CapAerialCopperInv * OFFSET (DepAnnualCostFactor, AerialCopperOffset, 0) | |