

# ***Piggly Wiggly Carolina***

**810**

**Invoice**

**EDI Documentation Mapping**

**X.12**

**Version 4010**



**Revised 03/01/2007**

## **Document Structure**

**ISA - INTERCHANGE CONTROL HEADER - MANDATORY**

**GS – FUNCTIONAL GROUP HEADER - MANDATORY**

**ST - TRANSACTION SET HEADER - MANDATORY**

**BIG - BEGINNING SEGMENT FOR INVOICE - MANDATORY**

**REF - REFERENCE NUMBERS – OPTIONAL**

**N1 - NAME - MANDATORY**

**N3 - ADDRESS INFORMATION - MANDATORY**

**N4 - GEOGRAPHIC LOCATION - MANDATORY**

**ITD - TERMS OF SALE - MANDATORY**

**DTM - DATE/TIME REFERENCE – MANDATORY**

**FOB - FOB RELATED INSTRUCTIONS - OPTIONAL**

**IT1 - BASELINE ITEM DATA - MANDATORY**

**PID - PRODUCT/ITEM DESCRIPTION - MANDATORY**

**PO4 - ITEM PHYSICAL DETAILS - MANDATORY**

**SAC - SERVICE, PROMOTION, ALLOWANCE OR CHARGE INFO - OPTIONAL**

**TDS - TOTAL MONETARY VALUE SUMMARY - MANDATORY**

**CAD - CARRIER DETAIL - MANDATORY**

**SAC - SERVICE, PROMOTION, ALLOWANCE OR CHARGE INFO - OPTIONAL**

**ISS - INVOICE SHIPMENT SUMMARY - MANDATORY**

**CTT - TRANSACTION TOTALS - MANDATORY**

**SE - TRANSACTION SET TRAILER - MANDATORY**

**GE - FUNCTIONAL GROUP TRAILER - MANDATORY**

**IEA - INTERCHANGE CONTROL TRAILER - MANDATORY**

These Specifications contain the format for the data contents of the Invoice Transaction Set (810) for use within Electronic Data Interchange (EDI) environment for Piggly Wiggly vendors.

The following are guidelines for setting up the 810 Invoice for Piggly Wiggly Carolina Co.

- We test in production so the ISA15 must should be a P for Production
- The IT1 segment must contain a “UA” in element 06 with the UPC in 07
- The PID must be included in every line item within the detail section
- The PO4 must be included in every line item and must contain all 3 elements  
PO 401, Pack  
PO 402, Size  
PO 403, Unit of Measure
- Every Invoice we would like the “BT”, “ST” and “RE” Address information as noted below: (These segments can not be combined the information must be in the proper elements)  
We need N101, N102, N103 and N104 as noted in our specs  
We need the N301 as noted in our specs  
We need the N401, N402 & N403 as noted in our specs
- The ITD segment must be in the following format:  
ITD 03, Terms Discount Percent (If there is no Discount Terms leave blank\Null)  
ITD 04, Terms Discount Due Date (If there is no Discount Terms leave blank\Null)  
ITD 05, Terms Discount Days Due (If there is no Discount Terms leave blank\Null)  
ITD 06, Terms Net Due Date  
ITD 07, Terms Net Days
- The TDS segment must be in the following format:  
TDS 01, Total Due (Sum of all IT102 \* IT104 minus all SAC 05 elements)  
TDS 02, Amount Subject To Discount (Sum of all IT102 \* ITD03)  
TDS 03, Net Amount (TDS01 – TDS04)  
TDS 04, Discount amount (ITD03 \* TDS02)
- The ISS segment must contain all 4 elements  
ISS 01, Number of units Shipped  
ISS 02, Unit of Measurement Code  
ISS 03, Weight  
ISS 04, Unit or Basis for Measurement
- The SAC segment must be sent in the following format  
SAC 02, A indicates Allowance (No charges can be included in the line item)  
SAC 05, Amount must contain a negative sign and allow for two assumed decimal places  
But, decimal will not be allowed. This must indicate total amount not per case.  
SAC 12, Must contain 02 which indicates Off Invoice
- We ship in cases and must be billed in cases. The only exception to this is variable weight. These items should be billed in pounds with cases in the IT102

## Header

<b>Segment:</b>	<b>BIG Transaction Set Header</b>
<b>Usage:</b>	Mandatory
<b>Max Use/Loop:</b>	1
<b>Purpose:</b>	To indicate the beginning of an invoice transaction set and transmit identifying numbers and dates

**BIG Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
BIG01	173	<b>Date</b>	M DT 8/8
		Date expressed as CCYYMMDD	
BIG02	76	<b>Transaction Set Purpose Code</b>	M AN 1/22
		Invoice Number	
BIG03	373	<b>Date</b>	M DT 8/8
		Date expressed as CCYYMMDD	
BIG04	324	<b>Purchase Order Number</b>	M AN 1/4
		Identifying number for Purchase Order assigned by the orderer/purchaser. NOTE: PO Number is limited to 4 digits	

<b>Segment:</b>	<b>REF Transaction Set Header</b>
<b>Usage:</b>	Optional
<b>Max Use/Loop:</b>	1
<b>Purpose:</b>	To indicate the start of a transaction set and to assign a control number

**REF Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
REF01	128	<b>Reference Identification Qualifier</b>	O ID 2/3
		AP – Piggly Wiggly Customer Number	
REF02	127	<b>Reference Number</b>	O AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

<b>Segment:</b> <b>N1</b>
<b>Usage:</b> Mandatory
<b>Max Use/Loop:</b> 1 per N1 loop; N1 loop will repeat 2 times – one each for ST and RE
<b>Purpose:</b> To identify a party by type of organization, name, and code

**N1 Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
N101	98	<b>Entity Identifier Code</b>	M ID 2/3
		Code identifying an organizational entity, a physical location, property or an individual Include one ship to and one remit to segment.	
N102	93	<b>Name</b>	M AN 1/35
		Free-form name It is recommended this field be sent in case a match is not found on the DUNS number provided.	
N103	66	<b>Identification Code Qualifier</b>	M ID 1/2
		Code designating the system/method of code structure used for Identification Code (67)	
N104	67	<b>Identification Code</b>	M AN 2/80
		Code identifying a party or other code	

<b>Segment:</b> <b>N3</b>
<b>Usage:</b> Mandatory
<b>Max Use/Loop:</b> 1 per N1 loop
<b>Purpose:</b> To specify the location of the named party

**N3 Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
N301	166	<b>Address Information</b>	M AN 1/35
N302	166	<b>Address Information</b>	O AN 1/35

<b>Segment:</b> <b>N4</b>  <b>Usage:</b> Mandatory <b>Max Use/Loop:</b> 1 per N1 loop <b>Purpose:</b> To specify the geographic place of the named party
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**N4 Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
N401	19	<b>City Name</b>	M AN 2/30
		Free – form text for city name	
N402	156	<b>State or Province Code</b>	M ID 2/2
		Code (standard State/Province) as defined by appropriate government agency	
N403	116	<b>Postal Code</b>	M ID 3/15
		Code defining international postal zone code excluding punctuation and blanks (zip code for United States)	

<b>Segment:</b> <b>ITD</b>
<b>Usage:</b> Mandatory
<b>Max Use/Loop:</b> 1
<b>Purpose:</b> To specify terms of sale

**ITD Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
ITD01	336	<b>Terms Type Code</b>	M ID 2/2
		Code identifying type of payment terms	
ITD02	333	<b>Terms Basis Date Code</b>	M ID 1/2
		Code identifying the beginning of the terms period	
ITD03	116	<b>Terms Discount Percent</b>	C R 1/6
		Terms discount percentage, expressed as a percent, available to the purchaser if an invoice is paid on or before the Terms Discount Due Date	
ITD04	26	<b>Terms Discount Due Date</b>	C DT 8/8
		Date payment is due if discount is to be earned expressed in format CCYYMMDD	
ITD05	351	<b>Terms Discount Days Due</b>	C NO 1/3
		Number of days in the terms discount period by which payment is due if terms discount is earned	
ITD06	446	<b>Terms Net Due Date</b>	M DT 8/8
		Date when total invoice amount becomes due expressed in format CCYYMMDD	
ITD07	386	<b>Terms Net Days</b>	M NO 1/3
		Number of days until total invoice amount is due (discount not applicable)	
ITD12	352	<b>Description</b>	O AN 1/80
		Example: 2 % 10 DAYS NET 30 DAYS	

<b>Segment:</b> <b>DTM</b>
<b>Usage:</b> Mandatory
<b>Max Use/Loop:</b> 1
<b>Purpose:</b> To specify pertinent dates and times

**DTM Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
DTM01	374	<b>Date/Time Qualifier</b>	M ID 3/3
		011 – Shipped Date	
DTM02	373	<b>Date</b>	M DT 8/8
		Date expressed as CCYYMMDD	

<p><b>Segment:</b> FOB</p> <p><b>Usage:</b> Optional</p> <p><b>Max Use/Loop:</b> 1</p> <p><b>Purpose:</b> To specify transportation instructions relating to shipment</p>
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**FOB Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
FOB01	146	<b>Shipment Method of Payment</b>	O ID 2/2
		Code identifying type of payment terms	
FOB02	309	<b>Location Qualifier</b>	C ID 1/2
		Code identifying type of location	
FOB03	352	<b>Description</b>	C AN 1/80
		A free-form description to clarify the related	



# Detail

<b>Segment:</b>	<b>IT1</b>
<b>Usage:</b>	Mandatory
<b>Max Use/Loop:</b>	1 per IT1 loop; IT1 loop can repeat up to 200,000 times
<b>Purpose:</b>	To specify the basic and most frequently used line item data for the invoice and related transactions

## IT1 Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
IT101	350	<b>Assigned Identification</b>	O AN 1/20
		Alphanumeric characters assigned for differentiation within a transaction set	
IT102	358	<b>Quantity Invoiced</b>	M R 1/10
		Number of units invoiced (supplier units)	
IT103	355	<b>Unit or Basis for Measurement Code</b>	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
IT104	212	<b>Unit Price</b>	M R 1/17
		Price per unit of product, service, commodity, etc. Price case before any discount/allowance, decimal point required.	
IT106	235	<b>Product/Service ID Qualifier</b>	M ID 2/2
		Code identifying the type/source of the descriptive number used in Product/Service ID (234) Valid qualifiers: UA – UPC/EAN Case Code (2-5-5) UP – UPC Package Code (1-5-5-1)	
IT107	234	<b>Product/Service ID</b>	M AN 1/48
		Identifying number for a product or service	

<b>Segment:</b>	<b>PID</b>
<b>Usage:</b>	Mandatory
<b>Max Use/Loop:</b>	1 per IT1 loop
<b>Purpose:</b>	To describe a product or process in coded or free-form format

## PID Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
PID01	349	<b>Item Description Type</b>	M ID 1/1
		Code indicating the format of a description	
PID05	352	<b>Description</b>	M AN 1/80
		A free-form description to clarify the related data elements and their content	

<b>Segment:</b> <b>PO4</b>
<b>Usage:</b> Mandatory
<b>Max Use/Loop:</b> 1 per IT1 loop
<b>Purpose:</b> To specify the physical qualities, packaging, weights, and dimensions relating to the item

**PO4 Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
PO401	356	<b>Pack</b>	M N0 1/6
		The number of inner containers or number of each. if there are no inner containers, per outer container	
PO402	357	<b>Size</b>	M R 1/8
		Size of supplier units in pack	
PO403	355	<b>Unit or Basis for Measurement Code</b>	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

<b>Segment:</b>	<b>SAC</b>
<b>Usage:</b>	Conditional
<b>Max Use/Loop:</b>	1 per SAC Loop; loop can be repeated up to 25 times
<b>Purpose:</b>	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**SAC Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
SAC01	248	<b>Allowance or Charge Indicator</b>	M IS 1/1
		Code which indicates an allowance or charge for the service specified (We can only accept Allowance in the Detail section)	
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	M ID 4/4
		Code identifying the service, promotion, allowance, or charge (We can only accept Allowance in the Detail section)	
SAC05	610	<b>Amount</b>	M N2 1/15
		Monetary amount NOTE: Must contain minus sign when allowance. Allow for two assumed decimal places, but no decimal point included. Amount should be the per case allowance amount times the number of cases.	
SAC12	331	<b>Allowance or Charge Method of Handling Code</b>	M ID 2/2
		Code indicating method of handling for an allowance or charge	
SAC13	127	<b>Reference Identification</b>	O AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
SAC15	352	<b>Description</b>	O AN 1/80
		A free-form description to clarify the related data elements and their content	

# Summary

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<b>Segment:</b>	<b>TDS</b>
<b>Usage:</b>	Mandatory
<b>Max Use/Loop:</b>	1
<b>Purpose:</b>	To specify the total invoice discounts and amounts
<b>Note:</b>	TDS amounts allow for two assumed decimal places, but no decimal point included. For example, \$100.00 should be entered as '-10000'.

## TDS Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
TDS01	610	<b>Invoice Total</b>	M N2 1/15
		Monetary amount	
TDS02	610	<b>Amount</b>	C N2 1/15
		Amount Subject to Discount (Total List Price Exclusive of Off Invoices)	
TDS03	610	<b>Amount</b>	M N2 1/15
		Discounted Amount Due	
TDS04	610	<b>Amount</b>	C N2 1/15
		Discount Amount	

<b>Segment:</b>	<b>CAD</b>
<b>Usage:</b>	Mandatory
<b>Max Use/Loop:</b>	1
<b>Purpose:</b>	To specify transportation details for the transaction
<b>Notes:</b>	C0708 - If CAD07 is present, then CAD08 is required.

### CAD Data Element Summary

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
CAD01	91	<b>Transportation Method/Type Code</b>	M ID 1/2
		Code specifying the method or type of transportation for the shipment	
CAD02	206	<b>Equipment Initial</b>	O AN 1/4
		Prefix or alphabetic part of an equipment unit's identifying number	
CAD03	207	<b>Equipment Number</b>	O AN 1/10
		Sequencing or serial part of an equipment unit's identifying number (pure numeric form for equipment number is preferred)	
CAD04	140	<b>SCAC</b>	O ID 2/4
		Standard Carrier Alpha Code	
CAD05	387	<b>Routing</b>	M AN 1/35
		Free-form description of the routing or requested routing for shipment, or the originating carrier's identity	
CAD06	368	<b>Shipment/Order Status Code</b>	O ID 2/2
		Code indicating the status of an order or shipment or the disposition of any difference between the quantity ordered and the quantity shipped for a line item or transaction	
CAD07	128	<b>Reference Identification</b>	C ID 2/3
		Code qualifying the Reference Identification	
CAD08	127	<b>Reference Identification</b>	C AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	

<b>Segment:</b>	<b>SAC</b>
<b>Usage:</b>	Optional
<b>Max Use/Loop:</b>	1 per SAC Loop; loop can be repeated up to 25 times
<b>Purpose:</b>	To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge

**SAC Data Element Summary**

<b><u>Ref. Des.</u></b>	<b><u>Data Element</u></b>	<b><u>Name</u></b>	<b><u>Attributes</u></b>
SAC01	248	<b>Allowance or Change Indicator</b>	M IS 1/1
		Code which indicates an allowance or charge for the service specified	
SAC02	1300	<b>Service, Promotion, Allowance, or Charge Code</b>	M ID 4/4
		Code identifying the service, promotion, allowance, or charge	
SAC05	610	<b>Amount</b>	M N2 1/15
		Monetary amount NOTE: Must contain minus sign when allowance. Allow for two assumed decimal places but no decimal point included. Amount should be the per case allowance amount times the number of cases = total discount for all cases	
SAC12	331	<b>Allowance or Charge Method of Handling Code</b>	M ID 2/2
		Code indicating method of handling for an allowance or charge '02'	
SAC13	127	<b>Reference Identification</b>	O AN 1/30
		Reference information as defined for a particular Transaction Set or as specified by the Reference Identification Qualifier	
SAC15	352	<b>Description</b>	M AN 1/80
		A free-form description to clarify the related data elements and their content	

<b>Segment:</b>	<b>ISS</b>
<b>Usage:</b>	Mandatory
<b>Max Use/Loop:</b>	1
<b>Purpose:</b>	To specify summary details of total items shipped in terms of quantity, weight, and volume

**ISS Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
ISS01	382	<b>Number of Units Shipped</b>	M R 1/10
		Numeric value of units shipped in manufacturer's shipping units for a line item or transaction set	
ISS02	355	<b>Unit or Basis for Measurement Code</b>	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	
ISS03	81	<b>Weight</b>	M R 1/10
		Numeric value of weight	
ISS04	355	<b>Unit or Basis for Measurement Code</b>	M ID 2/2
		Code specifying the units in which a value is being expressed, or manner in which a measurement has been taken	

<b>Segment:</b>	<b>CTT</b>
<b>Usage:</b>	Mandatory
<b>Max Use/Loop:</b>	1
<b>Purpose:</b>	To transmit a hash total for a specific element in the transaction set

**CTT Data Element Summary**

<u>Ref. Des.</u>	<u>Data Element</u>	<u>Name</u>	<u>Attributes</u>
CTT01	354	<b>Number of Line Items</b>	M N0 1/6
		Total number of line items in the transaction set	
CTT02	347	<b>Hash Total</b>	O R 1/10
		Sum of values of the specified data element. All values in the data element will be summed without regard to decimal points (explicit or implicit) or signs. Truncation will occur on the left most digits if the sum is greater than the maximum size of the hash total of the data element.	

**Sample Invoice (Billing By CA)**

ISA\*00\* \*00\* \*08\*REIFOO \*01\*007919277A  
\*051101\*0947\*U\*00401\*000000119\*0\*P\*>~  
GS\*IN\*REIFOO\*007919277A\*20051101\*0947\*119\*X\*004010~  
ST\*810\*1190001~  
BIG\*20051031\*63972\*20051025\*5061~  
REF\*AP\*525~  
N1\*ST\*PIGGLY WIGGLY CAROLINA CO\*9\*0079192770900~  
N3\*1125 NEWTON DRIVE~  
N4\*SUMMERVILLE\*SC\*29483~  
N1\*RE\*Reily Foods Company\*9\*0081946640000~  
N3\*P.O. Box 60263~  
N4\*Charlotte\*NC\*28260~  
ITD\*01\*3\*2\*20051110\*10\*20051110\*10\*\*\*\*\*2 % 10 Net 10 ~  
DTM\*011\*20051031~  
FOB\*PP\*DE\*PP=PREPAID PB=PICKUP~  
IT1\*\*\*CA\*26.47\*\*UA\*004790010723~  
PID\*F\*\*\*\*12/13 OZ RED BAG FAC CC RST~  
PO4\*12~  
IT1\*\*66\*CA\*17.4\*\*UA\*007239610000~  
PID\*F\*\*\*\*12/4OZ CARROLL SHELBY CHILI~  
PO4\*12~  
IT1\*\*276\*CA\*13.18\*\*UA\*004790013011~  
PID\*F\*\*\*\*8/32OZ SWANS DOWN FLOUR~  
PO4\*8~  
TDS\*478608\*478608\*469036\*9572~  
CAD\*OD\*\*\*\*ODFL~  
ISS\*342\*CA\*5094\*LB~  
CTT\*3~  
SE\*26\*1190001~  
GE\*1\*119~  
IEA\*1\*000000119~



**Sample Invoice (Billing by LB for variable Weight)**

BIG\*20050902\*B7871\*20050825\*5472~  
REF\*VN\*YP021~  
N1\*BT\*PIGGLY WIGGLY CAROLINA CO.INC.\*9\*0079192770000~  
N3\*CORPORATE ACCOUNTING\*176 CROGHAN SPUR ROAD,~  
N4\*CHARLESTON\*SC\*29407~  
N1\*RE\*JENNIE-O TURKEY STORE SALES, LLC\*9\*0061607660000~  
N3\*PO BOX 93447~  
N4\*CHICAGO\*IL\*60673~  
N1\*ST\*PIGGLY WIGGLY\*9\*0079192770900~  
N3\*1125 NEWTON WAY\*FROZEN DOCK~  
N4\*SUMMERSVILLE\*SC~  
ITD\*01\*3\*\*\*\*20050912\*10~  
DTM\*011\*20050903~  
IT1\*\*620.470\*LB\*1.4900\*\*UA\*004222253000~  
IT3\*27\*CA~  
PID\*F\*\*\*\*2.25-2.75# SPLIT HEN BRST/BK~  
IT1\*\*210.000\*LB\*1.5900\*\*UA\*004222253050~  
IT3\*9\*CA~  
PID\*F\*\*\*\*RTC LEMON PEPPER BI TKY BRST~  
TDS\*125840\*\*125840~  
ISS\*36\*CA\*830.47\*LB~  
CTT\*2~