



810 Invoice	
Functional Group=IN	Version 004030 X12
Mapping Procedures and Tips on Whole Foods 810 Document	
<p>Whole Foods utilizes the 810 Invoice Transaction Set for all divisions within the company. The 810 Transaction Set can be used to provide for customary and established business and industry practice relative to the billing for goods and services provided.</p>	

Header:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max Use</u>	<u>Loop Repeat</u>		
0100	ST	Transaction Set Header	M	1			
0200	BIG	Beginning Segment for Purchase Order	M	1			
0400	CUR	Currency	O	1			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Loop ID – N1</td> <td style="width: 50%; text-align: right;">4</td> </tr> </table>					Loop ID – N1	4	
Loop ID – N1	4						
0700	N1	Name	M	1			
1400	DTM	Date/Time Reference	O	1			
<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">Loop ID – N9</td> <td style="width: 50%; text-align: right;">1000</td> </tr> </table>					Loop ID – N9	1000	
Loop ID – N9	1000						
2400	N9	Reference Identification	O	1			
2500	MSG	Message Text	O	>1			



Detail:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max Use</u>	<u>Loop Repeat</u>
Loop ID – PO1					100000
0100	IT1	Baseline Item Data	M	1	1
0300	IT3	Additional Item Data	O	1	
0550	PAM	Period Amount	M	1	
Loop ID – IT1/PID					1000
0600	PID	Product/Item Description	M	1	
1000	PO4	Item Physical Details	M	1	1
Loop ID – IT1/SAC					>1
1800	SAC	Service, Promotion, Allowance, or Charge	O	1	1

Summary:

<u>Pos. No.</u>	<u>Seg. ID</u>	<u>Name</u>	<u>Req. Des.</u>	<u>Max Use</u>	<u>Loop Repeat</u>
0100	TDS	Total Monetary Value Summary	M	1	
Loop ID – SAC					25
0400	SAC	Service, Promotion, Allowance or Charge Info.	O	1	
0800	SE	Transaction Set Trailer	M	1	



ISA Interchange Control Header

Usage: Mandatory
Purpose: To start and identify an interchange of zero or more functional groups and interchange-related control segments.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req.</u>	<u>Type</u>	<u>Min/Max</u>
ISA01	I01	Authorization Information Qualifier <u>Code</u> <u>Description</u> 00 No Authorization Information Present (No Meaningful Information in I02)	M	ID	2/2
ISA02	I02	Authorization Information <i>Will be blank</i>	M	AN	10/10
ISA03	I03	Security Information Qualifier <u>Code</u> <u>Description</u> 00 No Security Information Present (No Meaningful Information in I04)	M	ID	2/2
ISA04	I04	Security Information <i>Will be blank</i>	M	AN	10/10
ISA05	I05	Interchange ID Qualifier <i>Sender Qualifier</i>	M	ID	2/2
ISA06	I06	Interchange Sender ID <i>Sender ISA</i>	M	AN	15/15
ISA07	I05	Interchange ID Qualifier <u>Code</u> <u>Description</u> 01 Duns (Dun and Bradstreet)	M	ID	2/2
ISA08	I07	Interchange Receiver ID <i>"196175616" + Regional Designator</i>	M	AN	15/15
Regional Designators					
Florida = FL					
Mid-Atlantic = MA					
Midwest = MW					
North Atlantic = NA					
Northeast = NE					
Northern California = NC					
Pacific Northwest = PN					
Rocky Mountain = RM					
South = SO					
South Pacific = SP					
Southwest = SW					
United Kingdom = UK					
ISA09	I08	Interchange Date <i>In format YYMMDD</i>	M	DT	6/6
ISA10	I09	Interchange Time <i>In format HHMM</i>	M	TM	4/4
ISA11	I65	Repetition Separator <i>"U"</i>	M		1/1



ISA12	I11	Interchange Control Version Number "00403"	M	ID	5/5
ISA13	I12	Interchange Control Number	M	N0	9/9
ISA14	I13	Acknowledgment Requested "0"	M	ID	1/1
ISA15	I14	Interchange Usage Indicator "T" (Test) or "P" (Production)	M	ID	1/1
ISA16	I14	Component Element Separator ">"	M		1/1



GS Functional Group Header

Usage: Mandatory
Purpose: To indicate the beginning of a functional group and to provide control information.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req.</u>	<u>Type</u>	<u>Min/Max</u>
GS01	479	Functional Identifier Code <u>Code</u> <u>Description</u> IN Invoice (810)	M	ID	2/2
GS02	142	Application Sender's Code <i>Sender GS ID</i>	M	AN	2/15
GS03	124	Application Receiver's Code <i>"196175616" + Regional Designator</i>	M	AN	2/15
		Regional Designators Florida = FL Mid-Atlantic = MA Midwest = MW North Atlantic = NA Northeast = NE Northern California = NC Pacific Northwest = PN Rocky Mountain = RM South = SO South Pacific = SP Southwest = SW United Kingdom = UK			
GS04	373	Date <i>In format YYYYMMDD</i>	M	DT	8/8
GS05	337	Time <i>In format HHMM</i>	M	TM	4/8
GS06	28	Group Control Number	M	N0	1/9
GS07	455	Responsible Agency Code <u>Code</u> <u>Description</u> X Accredited Standards Committee X12	M	ID	1/2
GS08	480	Version/Release/Industry Identifier Code <i>"004030"</i>	M	AN	1/12



ST Transaction Set Header

Position: 010
Max Use: 1
Level: Header
Usage: Mandatory
Loop: N/A
Elements: 2
Purpose: To indicate the start of a transaction set and to assign a control number

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
ST01	143	Transaction Set Identifier Code	M	ID	3/3
		<u>Code</u> <u>Description</u>			
		810 Invoice			
ST02	329	Transaction Set Control Number	M	AN	4/9

BIG Beginning Segment for Invoice

Position: 0200
Max Use: 1
Level: Heading
Usage: Mandatory
Loop: N/A
Elements: 4
Purpose: To indicate the beginning of the Invoice Transaction Set and transmit identifying numbers and dates.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
BIG01	373	Invoice Date <i>Date expressed as CCYYMMDD</i>	M	DT	10/10
BIG02	76	Invoice Number	M	AN	1/22
BIG03	373	Purchase Order Date <i>Date expressed as CCYYMMDD</i>	M	DT	8/8
BIG04	324	Purchase Order Number	M	AN	1/22



CUR Currency

Position: 0400
Max Use: 1
Level: Heading
Usage: Optional
Loop: N/A
Elements: 2
Purpose: To specify the currency (dollars, pounds, francs, etc.) used in a transaction

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
CUR01	98	Entity Identifier Code <u>Code</u> <u>Name</u> BY Buying Party	M	ID	2/3
CUR02	100	Currency Code <u>Code</u> <u>Name</u> USD U.S. Dollars	M	ID	3/3

N1 Name

Position: 0700
Max Use: 1 per N1 loop; max 4 N1 loops
Level: Heading
Usage: Mandatory
Loop: N1
Elements: 4
Purpose: To identify a party by type of organization, name and code.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N101	98	Entity Identifier Code <u>Code</u> <u>Name</u> SN Store Name ST Ship To U4 Team (Sub-Team) VN Vendor	M	ID	2/3
N102	93	Name – Only use when N101 = "U4"	O	AN	1/60
N103	66	Identification Code Qualifier <u>Code</u> <u>Name</u> 91 Assigned by Seller – use when N101 = "ST" 92 Assigned by Buyer – use when N101 = "SN", "U4" or "VN"	M	ID	1/2
N104	67	Identification Code	M	AN	2/80



DTM Date/Time Reference

Position: 1400
Max Use: 1
Level: Heading
Usage: Optional
Loop: N/A
Elements: 2
Purpose: To specify pertinent dates and times.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
DTM01	374	Date/Time Qualifier <u>Code</u> <u>Name</u> 017 Estimated Delivery (Expected Date)	M	ID	3/3
DTM02	373	Date <i>Date expressed as CCYYMMDD</i>	M	DT	8/8

N9 Reference Identification

Position: 2400
Max Use: 1
Level: Heading
Usage: Optional
Loop: N9
Elements: 2
Purpose: To transmit identifying information as specified by the Reference Identification Qualifier.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
N901	128	Reference Identification Qualifier <u>Code</u> <u>Name</u> L1 Letters or Notes	M	ID	2/3
N902	127	Reference Identification	M	AN	1/30



MSG Message Text

Position: 2500
Max Use: >1
Level: Heading
Usage: Optional
Loop: N9
Elements: 1
Purpose: To provide a free-form format that allows the transmission of text information.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
MSG01	933	Message Text	M	AN	1/264

IT1 Baseline Item Data

Position: 0100
Max Use: 1
Level: Detail
Usage: Mandatory
Loop: IT1
Elements: 10
Purpose: To specify basic and most frequently used line item data.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
IT101	350	Assigned ID	O	AN	1/20
IT102	358	Quantity Invoiced	M	R	1/10
IT103	355	Unit or Basis for Measurement Code <i>Note: See Appendix A for valid Units of Measure</i>	M	ID	2/2
IT104	212	Unit Price	M	R	1/17
IT106	235	Product/Service ID Qualifier <u>Code</u> <u>Name</u> UP UCC - 12	M	ID	2/2
IT107	234	Product/Service ID	M	AN	1/48
IT108	235	Product/Service ID Qualifier <u>Code</u> <u>Name</u> VC Vendor's Catalog Number	C	ID	2/2
IT109	234	Product/Service ID	C	AN	1/48



IT110	235	Product/Service ID Qualifier <u>Code</u> <u>Name</u> LT Lot Number	C	ID	2/2
IT111	234	Product/Service ID	C	AN	1/48

Syntax:

1. IT108 P0809 – If IT108 or IT109 is present, then the other is required.
2. IT110 P1011 – If IT110 or IT111 is present, then the other is required.

IT3 Additional Item Data

Position: 0300
Max Use: 1
Level: Detail
Usage: Optional
Loop: IT1
Elements: 2
Purpose: To specify additional item details relating to variations between ordered and shipped quantities, or to specify alternate units of measures and quantities.

Element Summary:

Ref	Id	<u>Element Name</u>	Req	Type	Min/Max
IT301	382	Number of Units Shipped - Weight	M	R	1/10
IT302	355	Unit or Basis of Measurement Code <u>Code</u> <u>Name</u> FO Fluid Ounce KG Kilogram LB Pound ME Milligram OZ Ounce - Av	M	ID	2/2



PAM Period Amount

Position: 0550
Max Use: 1
Level: Detail
Usage: Mandatory
Loop: IT1
Elements: 2
Purpose: To indicate a quantity, and/or amount for an identified period.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
PAM04	522	Amount Qualifier Code <u>Code</u> <u>Name</u> 1 Line Item Total (Extended Line Item Cost)	M	ID	1/3
PAM05	782	Monetary Amount <i>Note: (Qty * Cost) minus any Allowances plus any Charges where Qty = Qty Invoiced minus any Free Goods Qty</i>	M	R	1/18

Notes: Line-item totals reflect the Summary-level discount, if it applies to the line item (no Detail-level discount for that line item) or Line-item total reflects the Detail-level discount for that line item (overrides the Summary-level discount). The discount is reflected in the line-item total but not the UOM Cost.

PID Product/Item Description

Position: 0600
Max Use: 1
Level: Detail
Usage: Optional
Loop: IT1/PID
Elements: 2
Purpose: To describe a product or process in coded or free form format.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
PID01	349	Item Description Type <u>Code</u> <u>Name</u> F Free Form	M	ID	1/1
PID05	352	Description	M	AN	1/80



PO4 Item Physical Details

Position: 1000
Max Use: 1
Level: Detail
Usage: Mandatory
Loop: IT1
Elements: 3
Purpose: To specify the physical qualities, packaging, weights, and dimensions relating to the item.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
PO401	356	Pack	M	N0	1/6
PO402	357	Size	O	R	1/8
PO403	355	Unit or Basis for Measurement Code	O	ID	2/2

Note: See Appendix A for valid Units of Measure

SAC Service, Promotion, Allowance, or Charge Information

Position: 1800
Max Use: 1
Level: Detail
Usage: Optional
Loop: IT1/SAC
Elements: 7
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SAC01	248	Allowance or Charge Indicator <u>Code</u> <u>Name</u> A Allowance – used when SAC02 = 'C310' or 'D170' C Charge – used when SAC02 = 'D200'	M	ID	1/2
SAC02	1300	Service, Promotion, Allowance, or Charge Code <u>Code</u> <u>Name</u> C310 Invoice Level Discount – use either SAC05 or SAC06/07 D170 Free Goods – use SAC09/10 D200 Freight Charge – use SAC05	M	ID	4/4
SAC05	610	Amount <i>Note: Always use SAC05 when SAC02 = 'D200'</i> <i>Note: Can use SAC05 when SAC02 = 'C310'</i>	O	N2	1/15



SAC06	378	Allowance/Charge Percent Qualifier <u>Code</u> <u>Name</u> Z Mutually Defined	X	ID	1/1
		<i>Note: Can use SAC06 when SAC02 = 'C310'</i>			
SAC07	332	Percent	X	R	1/6
		<i>Note: Can use SAC07 when SAC02 = 'C310'</i>			
SAC09	355	Unit or Basis for Measurement Code	X	ID	2/2
		<i>Note: See Appendix A for valid Units of Measure</i> <i>Note: Use SAC09 when SAC02 = 'D170'</i>			
SAC10	380	Quantity	X	R	1/15
		<i>Note: Use SAC10 when SAC02 = 'D170'</i>			

Notes: If there is both a Summary Level and Detail Level discount (SAC01 = 'C310'), the Detail Level discount overrides the Summary Level discount for that line item.

TDS Total Monetary Value Summary

Position: 0100
Max Use: 1
Level: Summary
Usage: Mandatory
Loop: N/A
Elements: 1
Purpose: To specify the total invoice discounts and amounts.

Element Summary:

Ref	Id	<u>Element Name</u>	Req	Type	Min/Max
TDS01	610	Amount <i>Total Invoice Amount</i>	M	N2	1/15



SAC Service, Promotion, Allowance, or Charge Information

Position: 0400
Max Use: 1
Level: Summary
Usage: Optional
Loop: SAC
Elements: 5
Purpose: To request or identify a service, promotion, allowance, or charge; to specify the amount or percentage for the service, promotion, allowance, or charge.

Element Summary:

Ref	Id	Element Name	Req	Type	Min/Max
SAC01	248	Allowance or Charge Indicator <u>Code</u> <u>Name</u> A Allowance – used when SAC02 = 'C310' C Charge – used when SAC02 = 'D200'	M	ID	1/2
SAC02	1300	Service, Promotion, Allowance, or Charge Code <u>Code</u> <u>Name</u> C310 Invoice Level Discount D200 Freight Charge	M	ID	4/4
SAC05	610	Amount <i>Note: Use SAC05 when SAC02 = 'D200'</i>	X	N2	1/15
SAC06	378	Allowance/Charge Percent Qualifier <u>Code</u> <u>Name</u> Z Mutually Defined <i>Note: Use SAC06 when SAC02 = 'C310'</i>	X	ID	1/1
SAC07	332	Percent <i>Note: Use SAC07 when SAC02 = 'C310'</i>	X	R	1/6

Notes: If there is both a Summary Level and Detail Level discount (SAC01 = 'C310'), the Detail Level discount overrides the Summary Level discount for that line item.



SE Transaction Set Trailer

Position: 0800
Max Use: 1
Level: Summary
Usage: Mandatory
Loop: N/A
Elements: 2
Purpose: To indicate the end of the transaction set and provide the count of the transmitted segments (including the beginning (ST) and ending (SE) segments).

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req</u>	<u>Type</u>	<u>Min/Max</u>
SE01	96	Number of included Segments	M	N0	1/10
SE02	329	Transaction Set Control Number	M	AN	4/9

GE Functional Group Trailer

Usage: Mandatory
Purpose: To indicate the end of a functional group and to provide control information.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req.</u>	<u>Type</u>	<u>Min/Max</u>
GE01	97	Number of Transaction Sets Included	M	N0	1/6
GE02	28	Group Control Number	M	N0	1/9

IEA Interchange Control Trailer

Usage: Mandatory
Purpose: To define the end of an interchange of zero or more functional groups and interchange-related control segments.

Element Summary:

<u>Ref</u>	<u>Id</u>	<u>Element Name</u>	<u>Req.</u>	<u>Type</u>	<u>Min/Max</u>
IEA01	I16	Number of Included Functional Groups	M	N0	1/5
IEA02	I12	Interchange Control Number	M	N0	9/9



810 INVOICE - SAMPLE DATA

ISA*00* *00* *01*xxxxxxxxxx *01*196175616SO *050503*1630*U*00403*810112567*0*P*>~
GS*IN*xxxxxxxxxx*196175616SO*20050503*1630*810112567*X*004030~
ST*810*031047724~
BIG*20050503*03104772699*20050502*0000123456~
N1*ST*WHOLE FDS SC#8 RB/GROC-REG*91*01627919~
N1*SN*WFM ACD FROZEN*92*10176~
N1*VN*COMPANY NAME*1*xxxxxxxxxx~
N1*U4*SUBTEAM NAME~
N9*L1*P.O. NOTES~
MSG*FREE FORM TEXT~
IT1*1*2*CA*55.6700**UP*002693827102*VC*271023
PAM****1*89.072
PID*F****CASHEW PCS, LG FANCY, RAW
PO4*25*1.0000*LB
SAC*A*C310****Z*20
IT1*3*2*CA*20.0300**UP*002693814010*VC*140103
PAM****1*36.054
PID*F****CASHEWS, WHL, LARGE, RAW
PO4*5*1.0000*LB
TDS*12513~
SAC*A*C310****Z*10~
CTT*2~
SE*21*031047724~
GE*1*810112567~
IEA*1*810112567~



810 Invoice - Credit

ISA*00* *00* *01*xxxxxxxxxx *01*196175616SO *050503*1630*U*00403*810112567*0*P*>~
GS*IN*xxxxxxxx*196175616SO*20050503*1630*810112567*X*004030~
ST*810*031047724~
BIG*20050503*03104772699*20050502*0000123456~
N1*ST*WHOLE FDS SC#8 RB/GROC-REG*91*01627919~
N1*SN*WFM ACD FROZEN*92*10176~
N1*VN*company name*1*xxxxxxxxxx~
IT1****-12***EA*2.26*WH*UP*xxxxxxxxxx*VC*xxxxxx~
PID*F***SPECIAL FLOUR 2 LB~
PO4*9*****SPECIAL*2 LB ~
IT1****-24***CA*.80*WH*UP*07114200067*VC*080077~
PID*F***SPECIAL WATER 1 GAL~
PO4*9*****SPECIAL*1 GAL~
SAC*A*C090***1.2~
IT1****-30***CA*2.10*WH*UP*071142000104*VC*080093~
PID*F***SPECIAL COLA 12 OZ~
PO4*9*****SPECIAL*12 OZ~
SAC*A*D500***1.5~
TDS***-11202**~
SAC*A*D240***2500~
CTT*3~
SE*19*031047724~
GE*1*810112567~
IEA*1*810112567~



Appendix A

Valid Units of Measure

<u>Code</u>	<u>Description</u>
1N	Count
AV	Capsule
BG	Bag
BX	Box
CA	Case
CT	Carton
CU	Cup
DA	Days
DZ	Dozen
EA	Each
FO	Fluid Ounce
FT	Foot
GA	Gallon
GH	Half Gallon
GR	Gram
H2	Half Liter
IN	Inch
KG	Kilogram
LB	Pound
LT	Liter
ME	Milligram
ML	Milliliter
OZ	Ounce – Av
PC	Piece
PH	Pack
PT	Pint
QT	Quart
SH	Sheet
TY	Tray
U2	Tablet
UN	Unit
X2	Bunch
YD	Yard



Modification History:

Version 1.3.

- Added Notes to bottom of Detail and Summary SAC segment, as well as the PAM segment. Also edited the sample data to show an example of Summary and Detail level SAC segments.