

# **AGRO White Paper**

## **2021 Electronic Data Interchange (EDI) Specifications**

*For further information please contact your state warehouse licensing authority*

<b>File Type:</b>	<b>ASCII text file, delimited, text-in-quotes (.csv, .txt)</b>
<b>File Name:</b>	<b>EDI.DAT</b>
<b>Field Delimiter:</b>	<b>Comma</b>
<b>Record Delimiter:</b>	<b>CR/LF sequence.</b>

### Double Quotes...

All data for fields labeled TEXT (see page 3) must be contained in DOUBLE QUOTES ("string"). For example, a record containing yellow corn would have a grain code text string appear in EDI.DAT as: "CORN". Numeric fields can have double quotes around the number but this is not necessary.

### Padding...

DO NOT pad any text fields with blanks. Likewise, do not pad numeric fields with zeros.

### When Data is Not Available or Not Applicable...

If the grain software system data files do not contain, or for any reason can not supply, a particular type(s) of record code (for example, code 43 - Outstanding Checks) simply omit these data records (code 43) from the EDI.DAT file. ALL RECORD CODES NEED NOT BE PRESENT IN ANY GIVEN EDI.DAT.

If the warehouseman's grain software system does not contain or for any reason can not supply a particular data field in a particular type of record (record code) then simply skip that data field by writing a delimiter to the file. ALL FIELDS NEED NOT BE PRESENT WITHIN A RECORD as long as the omitted field is properly skipped. For example:

Aville Elevator has only 1 location.

Aville's EDI.DAT file contains a data record for a Negotiable Customer W/R (Record Code 1) that looks like this:

1,,100412,"Bob Customer", "CORN",.....etc.

...where 1 is the record type. The first comma represents the record code delimiter. The second comma indicates the location delimiter (since there is no location, the location delimiter appears immediately after the record code delimiter). 100412 is the WR serial number. "Bob Customer" is the W/R owner's name. CORN is the grain code, etc..

### Grain Codes...

The grain code field (field 5) for each data record must contain one of the text string grain codes found in the right hand column in the Grain Table.

### Locations...

If any type of record (especially W/Rs and Contracts) use a "Location ID", place that string in the LOCATION field (field 2). If facilities are not separated by location simply omit this information (see above). If the location ID is a number such as 1,2,3, etc., using the number itself is acceptable. Double quotes are not necessary in the case of a numeric location ID unless there are blanks appearing within the number.

## **EDI.DAT File Structure**

<b>Field Number</b>	<b>Description</b>	<b>Data Type</b>	<b>Length</b>
1	Record Code (see Record table)	NUMERIC	2,0 (0 ROD)
2	Location	TEXT	15
3	Document number	TEXT	20
4	Name	TEXT	25
5	Grain (see Grain table)	TEXT	10
6	Grade	TEXT	15
7	Bushel Quantity	NUMERIC	16,2 (2 ROD)
8	Issue Date	DATE	MM/DD/YYYY
9	Cancel Date	DATE	MM/DD/YYYY
10	Disposition	TEXT	50
11	Price per bushel	NUMERIC	16,5 (5 ROD)
12	Delivery Period	TEXT	20
13	Dollar Amount	NUMERIC	16,2 (2 ROD)
14	Accrued Charges	NUMERIC	16,2 (2 ROD)

**Notes:**

**Fields with Data Type** - NUMERIC fields 1 is "0 ROD" meaning it must not have a decimal point, spaces, or alpha characters present.

**Fields with DataType** - NUMERIC (fields 7,11,13,14) are defined as 2 (or 5 in the case of field #11) places to the right of the decimal. As a practical matter, however, the decimal point may appear at any position in the number so long as the total number of significant digits (ROD & LOD) add to 16 or less.

**Fields with DataType** - DATE (fields 8 & 9) are required to present in a US date format "MM/DD/YY" or "MM/DD/YYYY".

## **AGRO EDI - Table of Record Codes**

Each record present in EDI.DAT must be identified by one of the integer codes below. (Field 1 of EDI.DAT)

<b><u>Code</u></b>	<b><u>Description</u></b>
1	Negotiable CUSTOMER Warehouse Receipt
2	Negotiable CCC Warehouse Receipt
3	Negotiable COMPANY OWNED (Collateral) Warehouse Receipt
4	Non-Negotiable CUSTOMER Warehouse Receipt
5	Non-Negotiable CCC Loading Order
6	Non-Negotiable Grain Bank Warehouse Receipt
7	Purchase Contract - Price Later/Delay Price/Credit Sale (Delivered Bushels)
8	Purchase Contract - Basis (Delivered Bushels)
9	Purchase Contract - Basis (Remaining Balance)
10	Purchase Contract - Priced (Remaining Balance)
11	Purchase Contract - Hedged-To-Arrive (Remaining Balance)
12	Purchase Contract - Guaranteed Min. Price (hedged w/Call & BoT Short) (Remain. Bal.)
13	Purchase Contract - Guaranteed Min. Price (hedged w/Put alone) (Delivered Bushels)
14	Purchase Contract - Board of Trade Futures Contract (Long)
15	Purchase Contract - Purchase of Board of Trade CALL option (Overall Position Hedge)
16	Purchase Contract - Purchase of Board of Trade CALL option (GMP component)
17	Purchase Contract - Sale of (Write) Board of Trade CALL option
18	Sale Contract - Price Later/Delay Price/Credit Sale (Delivered Bushels)
19	Sale Contract - Basis (Delivered Bushels)
20	Sale Contract - Basis (Remaining Balance)
21	Sale Contract - Priced (Remaining Balance)
22	Sale Contract - Hedged-To-Arrive (Remaining Balance)
23	Sale Contract - Guaranteed Min. Price (hedged w/CALL & BoT Short) (Remain. Bal.)
24	Sale Contract - Guaranteed Min. Price (hedged w/PUT alone) (Delivered Bushels)
25	Sale Contract - Board of Trade Futures Contract (Short)
26	Sale Contract - Purchase of Board of Trade PUT option (Overall Position Hedge)
27	Sale Contract - Purchase of Board of Trade PUT option (GMP component)
28	Sale Contract - Sale of (Write) Board of Trade PUT option
29	Customer Open Storage
30	Forwarded Grain/Terminal Storage
31	Grain Bank Storage Account
32	CCC Open Storage
33	Storage Load Order (CCC)
34	Owned Grain Intransit
35	Grain Payable 0-30
36	Grain Payable 31-60
37	Grain Payable 61-120
38	Grain Payable >120
39	Deferred Payment Contract
40	Trade Payable
41	Grain Receivable
42	Trade Receivable
43	Outstanding Bank Account Check
44	Outstanding Bank Account Deposit
45	Checkoff Record
46	Unapplied Priced Later (DP) Purchases DPL
47	Unapplied Basis Purchases DBasis

## **AGRO EDI - Table of Grain** **Codes**

Each record present in EDI.DAT must be identified by one of the integer codes below. (Field 5 of EDI.DAT)

<b><u>Description</u></b>	<b><u>Code</u></b>
Amaranth	AMR
Barley (all types)	BARLY
Barley (Blue Malting)	BLMB
Barley (Blue)	BLY
Barley (Malting)	MB
Barley (Six Row)	SRB
Bean (Caster)	CSTB
Buckwheat	BWHT
Canola	CNOLA
Corn (Blue Food Grade)	CBFG
Corn (Food Grade - all types)	CFGC
Corn (Mixed)	MC
Corn (Popcorn)	POPCN
Corn (Screenings - all types)	CSCRN
Corn (Waxy Yellow)	WAXYC
Corn (White Food Grade)	CWFG
Corn (White Waxy)	CWWX
Corn (White)	WCORN
Corn (Yellow Food Grade)	CYFG
Corn (Yellow High Lysine)	CYHL
Corn (Yellow High Oil)	CYHO
Corn (Yellow)	CORN
Edible Bean (Abzuka)	BAB
Edible Bean (Adzuki)	BAD
Edible Bean (Anasazi)	BAN
Edible Bean (Black Turtle)	BTURT
Edible Bean (Brown)	SWBRN
Edible Bean (BTS)	BBT
Edible Bean (Cranberry)	CRANB
Edible Bean (Dark Red Kidney)	DRKID
Edible Bean (Garbonzos)	BGA
Edible Bean (Great Northern)	BGN
Edible Bean (Large Lima)	BLL
Edible Bean (Large Red Kidney)	LRKID
Edible Bean (Light Red Kidney)	LRK
Edible Bean (Navy)	NAVYB
Edible Bean (Pinto)	PINTB
Edible Bean (Red Turtle)	RTURT
Edible Bean (Small Red)	BSR
Edible Bean (Small White)	BSW

Edible Bean (Vinton)	BVN
Edible Bean (White Kidney)	BWK
Edible Bean (White Turtle)	WTURT
Edible Bean (Yellow Eye)	BYE
Edible Beans (Pink)	BPK
Flaxseed (all types)	FLAXS
Flint	FLIN
Grain (Mixed)	MIXGR
Grain (Non-Standard)	NSTDG
Millet (all types)	MILLT
Millet (White)	MWH
Millet (Yellow)	MYE
Mustard Seed	MUS
Mustard Seed (Brown)	MBR
Oats	OATS
Peas - Chick Gargonzo	PCG
Peas - Dry Whole	PDW
Peas - Green	PGN
Peas - Lentil Chilean	PLC
Peas - Lentil Persian	PLP
Peas - Split	PSP
Peas - Yellow	PYL
Proso (Golden German)	PGG
Proso (Hungarian)	PHN
Proso (Org. White)	POW
Proso (Red)	PRD
Proso (White)	PWT
Rapeseed	RPE
Rice (Long Grain)	RLG
Rice (Med. Grain)	RMG
Rye	RYE
Safflower Seed	SAFF
Sorghum/Milo (Mixed)	XS
Sorghum/Milo (Yellow)	SORGH
Soybean (Edible - all types)	SED
Soybean (Mixed)	XSB
Soybean (STS)	SSTS
Soybean (White HighLum)	SHL
Soybean (Yellow Chemical Free)	SCF
Soybean (Yellow Organically Grown)	SOG
Soybean (Yellow)	SOYBN
Soybeans (Black)	SBB
Spelt	SPLTZ
Sunflower (Bird Seed)	SBS
Sunflower (Black Oil)	SFLRO
Sunflower (Confection)	SFLRC
Triticale	TRIT
Wheat (Amber Durum)	ADU
Wheat (Dark Northern Spring)	DNS

Wheat (Hard Amber Durum)	HADU
Wheat (Hard Red Spring)	HRS
Wheat (Hard Red Winter)	HRW
Wheat (Hard White)	HDWH
Wheat (Mixed)	XWHT
Wheat (Northern Spring)	NS
Wheat (Other White)	OWH
Wheat (Red Spring)	RS
Wheat (Soft Red Mixed)	SRWHT
Wheat (Soft Red Spring)	WSRS
Wheat (Soft Red Winter)	WSRW
Wheat (Soft White)	WSW
Wheat (White)	WWHT