

**NORTH DAKOTA RAILROAD
LINE SEGMENT DATABASE
TECHNICAL REFERENCE**

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by

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Disclaimer

The data, methods, and findings presented herein do not necessarily reflect the views or policies of any of the above agencies, and are the sole responsibility of the Upper Great Plains Transportation Institute.

TABLE OF CONTENTS

INTRODUCTION	1
INSTALLATION AND IMPLEMENTATION	2
EXAMPLES	4
DATABASE DESCRIPTIONS	7
MENU STRUCTURE	11
PHYSICAL AND OPERATING DATA DESCRIPTION	17
Definitions	18
DATABASE STRUCTURE	19
SCREEN DISPLAY FORMATS	26
PROGRAM FILES	33
APPLICATION GENERATION DOCUMENTATION	35

INTRODUCTION

The Railroad Industry uses a variety of information and data sources to present planners and decision makers with the best environment facilitating the decision process. The management of this information and its environment is vital to ensure that decision makers have an operational framework allowing fast, easy, and meaningful access to relevant data. Equally important is the management of the relationships inherent in the data or relationships of interest to a user within this environment. This report describes the design and implementation of such a system incorporating a relational database environment.

The North Dakota Railroad Line Segment Database is a database program designed to access and present information about railroad line segments in North Dakota. The program presents line segment information for two major descriptive categories; physical and operating data and traffic characteristics. The physical and operating data provide the physical and operational attributes of the line segment including rail, roadbed, and train operating characteristics. The traffic portion of the program presents the grain movement traffic statistics for the last three and/or five years. This data is divided into line segment and city data and provides total grain movement shipments for commodities, modes(three types of rail movements plus truck traffic), and shipment totals to various destinations.

The development of this database system provides a fundamental procedure for a Railroad Geographical Information System (GIS). This system will also be an integral part of a Rural Transportation Geographical Decision Support System (GDSS) presently under development. The GDSS will incorporate the North Dakota Railroad Line Segment Database into its geographical and transportation modeling information systems. The

application of GDSS to Railroads is an incipient process and much remains to be done to fully utilize this information technology in the Railroad Industry.

The database system is a dBASE IV Application Generator produced program and operates within a dBASE IV environment with the assumption of some moderate user familiarity with dBASE (only for limited editing functions). It is a menu-driven program presenting the user with a series of menus containing a selection of options which facilitate the displaying and editing of the underlying databases. Individual database records can be chosen by either entering the indexed name of the record or picking the record name from a list containing the indexed names of the available records. Custom designed screen formats are used to display the individual database records selected by the user. In addition to displaying the database records, editing functions are included.

INSTALLATION AND IMPLEMENTAION

The program can be copied to a dBASE IV environment (inside a dBASE IV directory or within an environment accessed by a path name including a dBASE IV directory) with a copy command from a PC disk operating system. The program is activated by entering the following command at the system prompt.

C:>dBASE NDRR

This command must be entered from within the directory containing the program.

The first screens the user sees are the dBASE IV introductory screens. These are followed by the first program screen welcoming the user to the North Dakota Railroad Line Segment Database. The program's main menu is reached by hitting ENTER (RETURN) or waiting for the welcome screen to disappear. The program is then loaded by dBASE IV. This loading operation will take a few seconds.

The main menu provides the entry point to either the physical and operating database or the traffic characteristics database. Moving the up and down cursor keys to one of the options and hitting ENTER will put the user into the selected database environment. The main menu also has an option to exit the program to the disk operating system.

The two database environments have identical bar menus at the top of the screen. The options on the bar menus include DISPLAY RECORD, UPDATE A RECORD, MAINTNCE, and EXIT. These options control pulldown menus that perform similar tasks within each environment although the Traffic database structure has more underlying databases and requires more detailed pulldown menus.

The DISPLAY RECORD pulldown menu gives the user the choice of accessing a record by two different means. The user can either enter the name of the record being sought or they may pick the record name from a "picklist" displayed on the screen. If the user decides to enter the record name the program prompts for the name before displaying the record on the formatted screen. If the user picks the record name from the list the program goes directly to the screen display. Once inside the display screen the user may find other records by using the Page Up and Page Down keys. These keys will move the display screen back and forth inside the database displaying the available records. The records will be shown in the order of the indexed data field. The display screen is exited by hitting the escape key (ESC). This will return the user to the previous environment.

Editing functions are reached through the UPDATE RECORD menu. Menu selections allow the addition, deletion, or editing of individual records in the database. After an edit function has been done the user should back up the changes by accessing the

MAINTNCE menu and selecting the Back Up A File option. This option backs up the changed database and reindexes the database index files.

Exiting the program (application) may be done from the bar menus and from many pulldown menus. The exits are either to DOS or to the dBASE IV Control Center (the Exit Application option).

A menu selection is made by moving the green highlights bar to the desired selection and hitting enter.

EXAMPLES

The following examples are typical user queries performed by the program.

To find the physical and operating characteristics of line-segment BN009 the user would choose the following option at the main menu:

1. PHYSICAL AND OPERATING DATA

From the **UPDATE RECORD** popup menu choose either

ENTER A LINEID

or

CHOOSE A LINEID

If **ENTER A LINEID** was selected the next screen would prompt the user for Lineid to be found. Entering a Lineid will cause the program to display the line segment data for the entered Lineid or return the message, "Record not found", if the lineid record was not found.

If **CHOOSE A LINEID** was selected a "picklist" containing the available Lineids in the database appears on the righthand side of the screen. By moving the green highlight bar to a Lineid and hitting ENTER the user selects a Lineid record to display.

To find the totals of various commodities shipped from Carrington the user would select the following option at the main menu.

2. TRAFFIC CHARACTERISTICS

From the **DISPLAY RECORD** popup menu choose

FIND COMMODITY/MODE TOTALS

From the **FIND COMMODITY/MODE TOTALS** popup menu choose either

ENTER A CITY

or

CHOOSE A CITY

If **ENTER A LINEID** was selected the next screen would prompt the user for Lineid to be found. Entering a Lineid will cause the program to display the line segment data for the entered Lineid or return the message, "Record not found", if the lineid record was not found.

If **CHOOSE A LINEID** was selected a "picklist" containing the available Lineids in the database appears on the righthand side of the screen. By moving the green highlight bar to a Lineid and hitting ENTER the user selects a Lineid record to display.

To find the amount of wheat shipped to Duluth from Cavalier choose option 2 in the main menu.

2. TRAFFIC CHARACTERISTICS

From the **DISPLAY RECORD** popup menu choose

FIND LINE TOTALS

From the **FIND LINE TOTALS** popup menu choose either

ENTER A LINEID

or

CHOOSE A LINEID

If **ENTER A LINEID** was selected the next screen would prompt the user for Lineid to be found. Entering a Lineid will cause the program to display the line segment data for the entered Lineid or return the message, "Record not found", if the lineid record was not found.

If **CHOOSE A LINEID** was selected a "picklist" containing the available Lineids in the database appears on the righthand side of the screen. By moving the green highlight bar to a Lineid and hitting ENTER the user selects a Lineid record to display.

DATABASE DESCRIPTIONS

DATABASE

PHYSICAL This database contains the physical and operating characters of line segments in the database. The file is entered on the field lineid and has 37 fields of information. The backup database is PHYSBACK.

CITYALL This database contains all the city records for commodity movements and mode totals for the last years. The index is city and there are 41 fields of information. The lineid of the city is included. The backup database is CITYBACK.JBF.

The Data elements are named as follows:

<COMMODITY><YEAR>

For example

WHEAT87 is the amount of wheat shipped in
1987.

SINGLE89 is the amount of grain that was
shipped by single car movements
in 1989

LINEALL LINEALL contains the commodity and mode movement totals for the
line segments of the past three years. The backup database is ALLBACK.

The Data elements are named as follows:

<COMMODITY><YEAR>

For example

WHEAT87 is the amount of wheat shipped in
1987.

SINGLE89 is the amount of grain that was
shipped by single car movements
in 1989

DESTALL DESTALL contains the total amount shipped to seven destinations
from the cities in the database. It covers the last three years and is indexed
by city. There are 23 data fields and the backup database is DESTBACK.

The Data elements are named as follows:

<DESTINATION><YEAR>

For example

DULUTH87 is the 1987 grain movement totals to Duluth.

LINEDEST This database holds the grain movement totals shipped to seven destinations from the available lineids in the database. It is indexed by lineid, covers the last three years, and has 22 data fields. The backup database is LDESBACK.

The Data elements are named as follows:

<DESTINATION><YEAR>

For example

DULUTH87 is the 1987 grain movement totals to Duluth.

LINETOTAL LINETOTAL contains the annual grain movement totals from the available lineids in the database. It is indexed by lineid, covers the period from 1985 to 1989, and has six data fields. The backup database is TOTABACK.

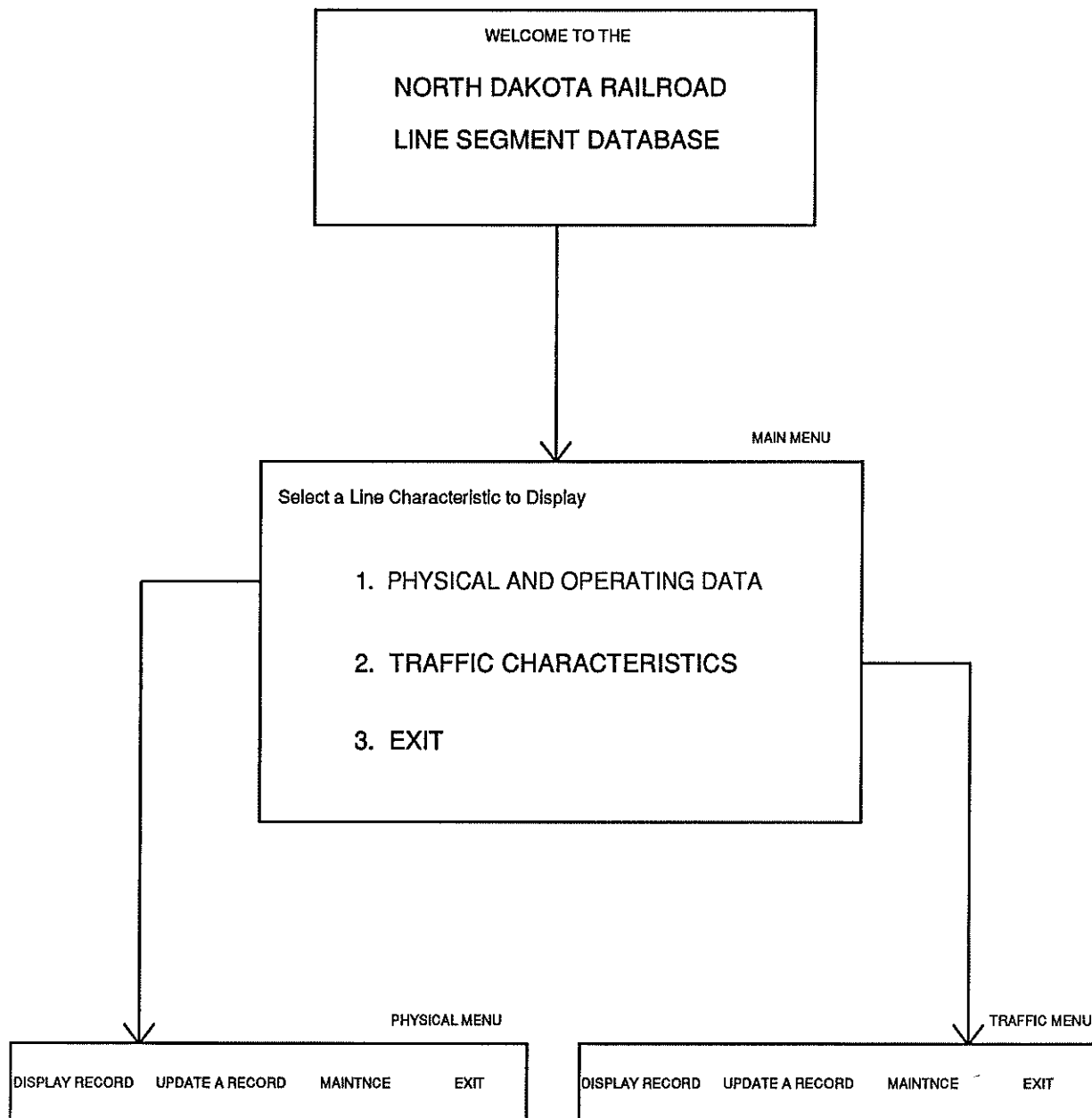
The Data elements are named as follows:

YEAR<YEAR>

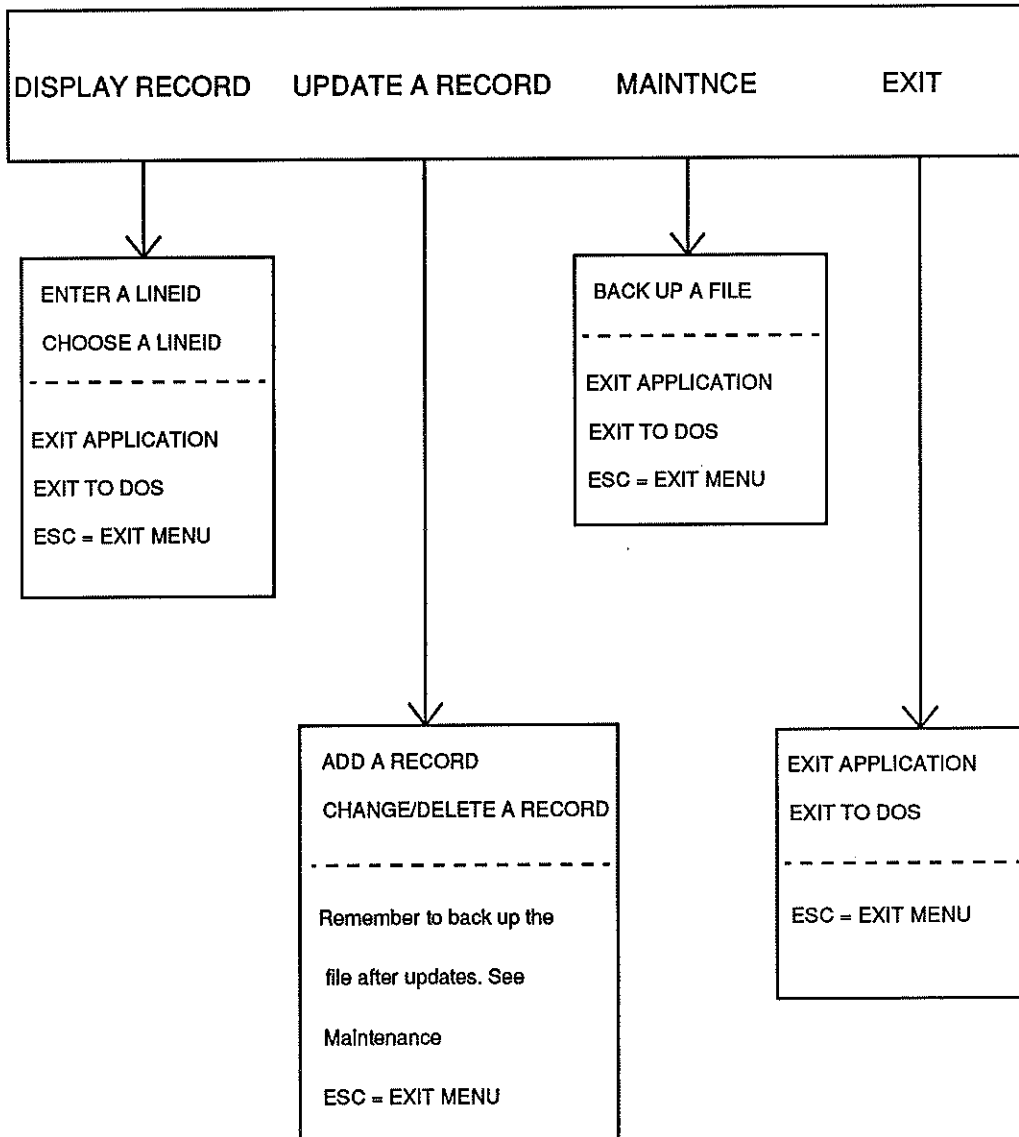
For example

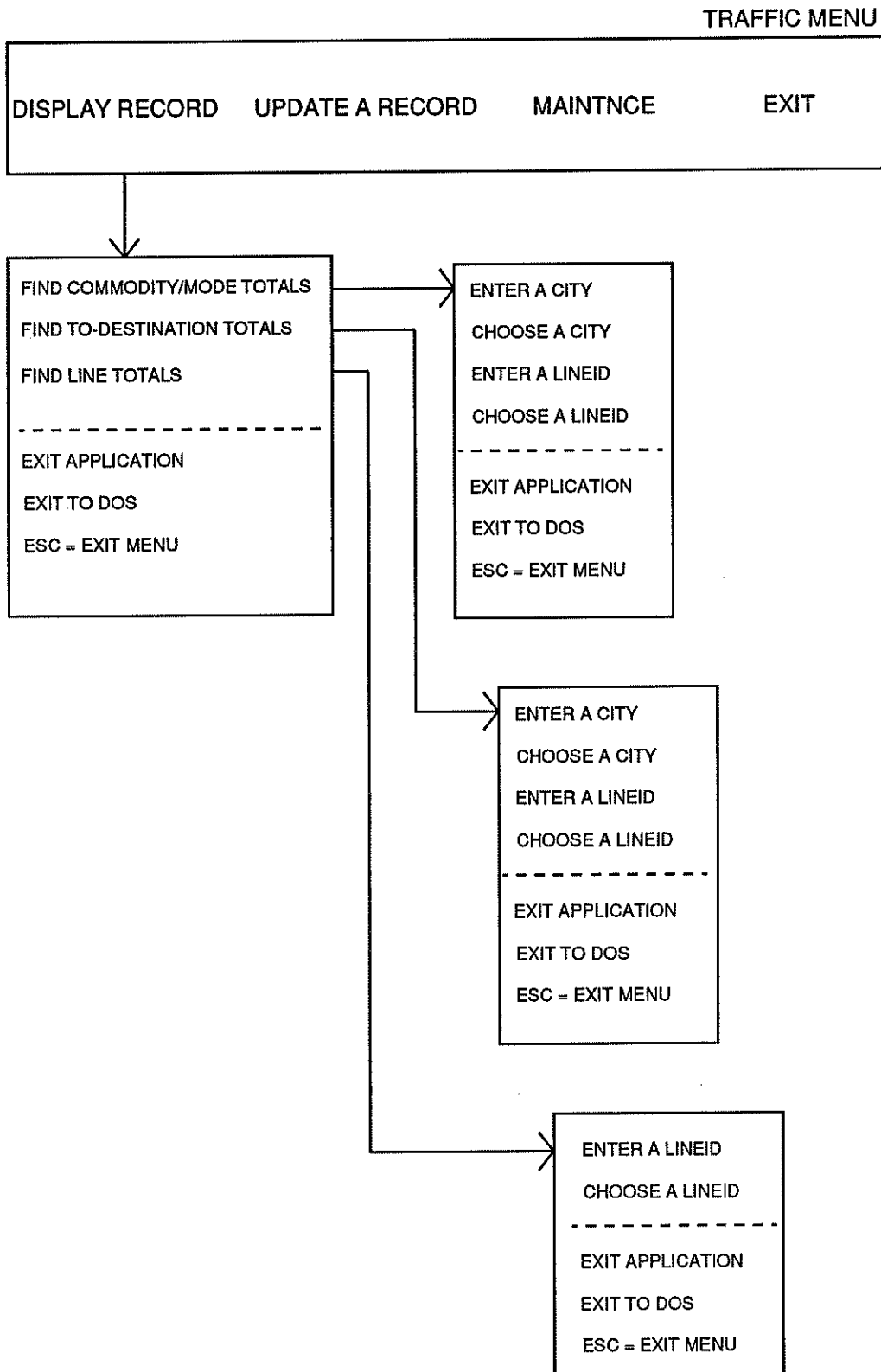
YEAR1985 is the total amount shipped on the line in 1985.

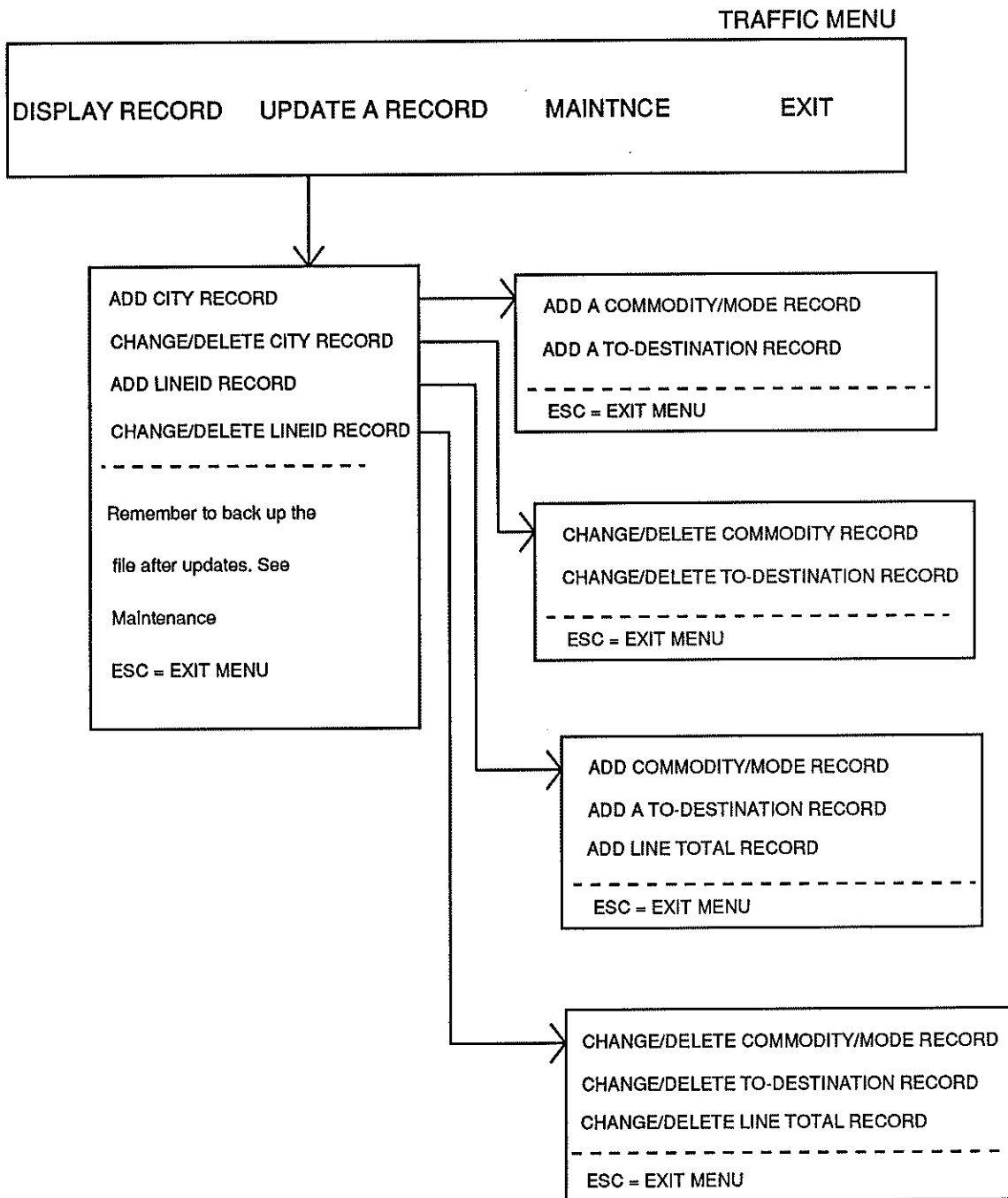
Menu Structure

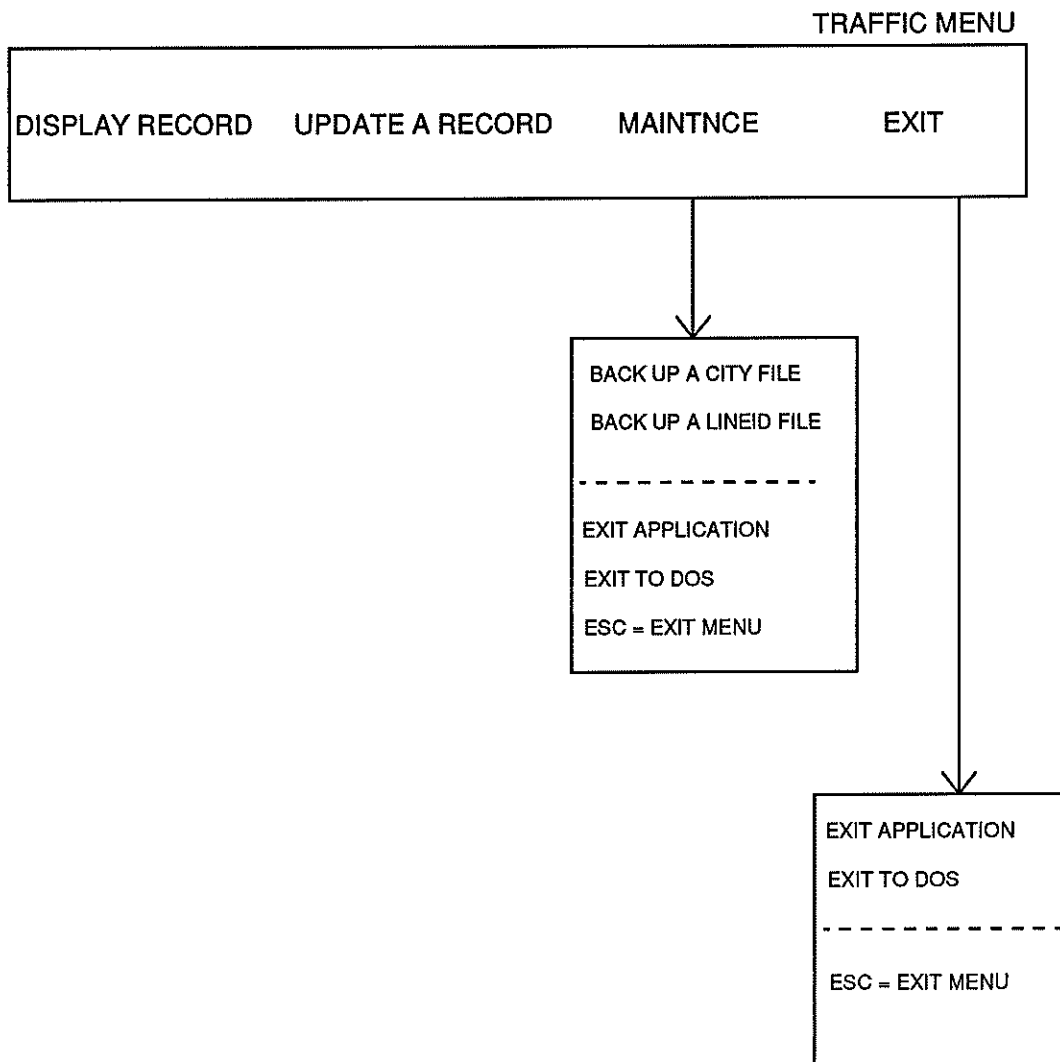


PHYSICAL MENU









Physical and Operating Data Description

DEFINITIONS

Average Speed: The average speed limit over the entire length of the line.

Service Frequency: Number of train trips scheduled per week.

Maximum Trailing Tons: The maximum gross trailing tons capable of being pulled by a 2000 horsepower locomotive computed using the Davis Formula at 13 mph
"Out" means in the direction away from the division point and "Back" means toward the division point.

Ruling Grade: The grade presenting the largest obstacle in both severity and length. Numbers given in percent.

FRA Class: Percentage of the track meeting FRA standards for each particular class.

ICC Category: Category 1: Subject to abandonment within 3 years.
Category 2: No abandonment proceedings planned.
Category 3: Abandonment pending.

Hazmat Code: A: heavy hazardous material traffic
B: some hazardous material traffic
C: little or none hazardous material traffic

Maximum Curves: In degrees and minutes using cord definition.

Ballast: Granite or Dresser: Crushed rock.
Pitrun: Pitrun or similar river basin rock.
Mud: Ballast which is deteriorated to the point where it could be considered rocky dirt rather than dirty rock.

Rail Weight: Weight of rail in pounds per yard.

Laid: Year rail was installed; This does not necessarily indicate rail age!

Weightlimit: Maximum gross car weight in pounds.

Out of Face Maintenance:
Surface: Year at which records show out of face surface project was completed.

Miles: The length of the last project.

Number of Ties: Total number of ties installed during last out of face tie project.

Mainline Switches: Total number of switches on the "running" section of track.

Total Bridge Length: Total length of all bridges in feet.

Database Structure

Structure for database: C:\DBASE\CITYALL.DBF

Number of data records: 396

Date of last update : 05/26/90

Field	Field Name	Type	Width	Dec	Index
1	CITY	Character	12		Y
2	LINEID	Character	5		N
3	WHEAT87	Numeric	8		N
4	DURUM87	Numeric	8		N
5	BARLEY87	Numeric	8		N
6	SUNFLR87	Numeric	8		N
7	CORN87	Numeric	8		N
8	FLAX87	Numeric	8		N
9	OATS87	Numeric	8		N
10	BEANS87	Numeric	8		N
11	OTHER87	Numeric	8		N
12	WHEAT88	Numeric	8		N
13	DURUM88	Numeric	8		N
14	BARLEY88	Numeric	8		N
15	SUNFLR88	Numeric	8		N
16	CORN88	Numeric	8		N
17	FLAX88	Numeric	8		N
18	OATS88	Numeric	8		N
19	BEANS88	Numeric	8		N
20	OTHER88	Numeric	8		N
21	WHEAT89	Numeric	8		N
22	DURUM89	Numeric	8		N
23	BARLEY89	Numeric	8		N
24	SUNFLR89	Numeric	8		N
25	CORN89	Numeric	8		N
26	FLAX89	Numeric	8		N
27	OATS89	Numeric	8		N
28	BEANS89	Numeric	8		N
29	OTHER89	Numeric	8		N
30	SINGLE87	Numeric	8		N
31	MULTI87	Numeric	8		N
32	UNIT87	Numeric	8		N
33	TRUCK87	Numeric	8		N
34	SINGLE88	Numeric	8		N
35	MULTI88	Numeric	8		N
36	UNIT88	Numeric	8		N
37	TRUCK88	Numeric	8		N
38	SINGLE89	Numeric	8		N
39	MULTI89	Numeric	8		N
40	UNIT89	Numeric	8		N
41	TRUCK89	Numeric	8		N
** Total **			330		

Structure for database: C:\DBASE\DESTALL.DBF

Number of data records: 396

Date of last update : 05/27/90

Field	Field Name	Type	Width	Dec	Index
1	CITY	Character	12		Y
2	LINEID	Character	5		N
3	DULUTH87	Numeric	8		N
4	MINNSTP87	Numeric	8		N
5	OMIDWEST87	Numeric	8		N
6	MIDSWEST87	Numeric	8		N
7	PACNWEST87	Numeric	8		N
8	NODAK87	Numeric	8		N
9	OTHER87	Numeric	8		N
10	DULUTH88	Numeric	8		N
11	MINNSTP88	Numeric	8		N
12	OMIDWEST88	Numeric	8		N
13	MIDSWEST88	Numeric	8		N
14	PACNWEST88	Numeric	8		N
15	NODAK88	Numeric	8		N
16	OTHER88	Numeric	8		N
17	DULUTH89	Numeric	8		N
18	MINNSTP89	Numeric	8		N
19	OMIDWEST89	Numeric	8		N
20	MIDSWEST89	Numeric	8		N
21	PACNWEST89	Numeric	8		N
22	NODAK89	Numeric	8		N
23	OTHER89	Numeric	8		N
** Total **			186		

Structure for database: C:\DBASE\LINEALL.DBF

Number of data records: 96

Date of last update : 05/26/90

Field	Field Name	Type	Width	Dec	Index
1	LINEID	Character	5	Y	
2	WHEAT87	Numeric	8	N	
3	DURUM87	Numeric	8	N	
4	BARLEY87	Numeric	8	N	
5	SUNFLR87	Numeric	8	N	
6	CORN87	Numeric	8	N	
7	FLAX87	Numeric	8	N	
8	OATS87	Numeric	8	N	
9	BEANS87	Numeric	8	N	
10	OTHER87	Numeric	8	N	
11	WHEAT88	Numeric	8	N	
12	DURUM88	Numeric	8	N	
13	BARLEY88	Numeric	8	N	
14	SUNFLR88	Numeric	8	N	
15	CORN88	Numeric	8	N	
16	FLAX88	Numeric	8	N	
17	OATS88	Numeric	8	N	
18	BEANS88	Numeric	8	N	
19	OTHER88	Numeric	8	N	
20	WHEAT89	Numeric	8	N	
21	DURUM89	Numeric	8	N	
22	BARLEY89	Numeric	8	N	
23	SUNFLR89	Numeric	8	N	
24	CORN89	Numeric	8	N	
25	FLAX89	Numeric	8	N	
26	OATS89	Numeric	8	N	
27	BEANS89	Numeric	8	N	
28	OTHER89	Numeric	8	N	
29	SINGLE87	Numeric	8	N	
30	MULTI87	Numeric	8	N	
31	UNIT87	Numeric	8	N	
32	TRUCK87	Numeric	8	N	
33	SINGLE88	Numeric	8	N	
34	MULTI88	Numeric	8	N	
35	UNIT88	Numeric	8	N	
36	TRUCK88	Numeric	8	N	
37	SINGLE89	Numeric	8	N	
38	MULTI89	Numeric	8	N	
39	UNIT89	Numeric	8	N	
40	TRUCK89	Numeric	8	N	
** Total **			318		

Structure for database: C:\DBASE\LINEDEST.DBF

Number of data records: 96

Date of last update : 05/27/90

Field	Field Name	Type	Width	Dec	Index
1	LINEID	Character	5	Y	
2	DULUTH87	Numeric	8	N	
3	MINNSTP87	Numeric	8	N	
4	OMIDWEST87	Numeric	8	N	
5	MIDSWEST87	Numeric	8	N	
6	PACNWEST87	Numeric	8	N	
7	NODAK87	Numeric	8	N	
8	OTHER87	Numeric	8	N	
9	DULUTH88	Numeric	8	N	
10	MINNSTP88	Numeric	8	N	
11	OMIDWEST88	Numeric	8	N	
12	MIDSWEST88	Numeric	8	N	
13	PACNWEST88	Numeric	8	N	
14	NODAK88	Numeric	8	N	
15	OTHER88	Numeric	8	N	
16	DULUTH89	Numeric	8	N	
17	MINNSTP89	Numeric	8	N	
18	OMIDWEST89	Numeric	8	N	
19	MIDSWEST89	Numeric	8	N	
20	PACNWEST89	Numeric	8	N	
21	NODAK89	Numeric	8	N	
22	OTHER89	Numeric	8	N	
**	Total	**	174		

Structure for database: C:\DBASE\LINETOTA.DBF

Number of data records: 98

Date of last update : 05/27/90

Field	Field Name	Type	Width	Dec	Index
1	LINEID	Character	5	Y	
2	YEAR1985	Numeric	8	N	
3	YEAR1986	Numeric	8	N	
4	YEAR1987	Numeric	8	N	
5	YEAR1988	Numeric	8	N	
6	YEAR1989	Numeric	8	N	
**	Total	**	46		

Structure for database: C:\DBASE\PHYSICAL.DBF

Number of data records: 48

Date of last update : 05/27/90

Field	Field Name	Type	Width	Dec	Index
1	LINEID	Character	5	Y	
2	AVGSPEED	Character	5	N	
3	SERVICEFRQ	Character	9	N	
4	MAXTONOUT	Character	8	N	
5	MAXTONBACK	Character	8	N	
6	RULINGRADE	Character	5	N	
7	FRACL1PCT	Character	4	N	
8	FRACL2PCT	Character	4	N	
9	FRACL3PCT	Character	4	N	
10	LINEMILES	Character	6	N	
11	ICC_CATGRY	Character	2	N	
12	OWNER	Character	5	N	
13	HAZMATCODE	Character	2	N	
14	NUM_CURVES	Character	4	N	
15	MAXCURVATR	Character	5	N	
16	BALLAST	Character	32	N	
17	RAILWT1	Character	5	N	
18	RLWT1MILES	Character	5	N	
19	RLWT1YEAR	Character	5	N	
20	RAILWT2	Character	5	N	
21	RLWT2MILES	Character	5	N	
22	RLWT2YEAR	Character	5	N	
23	RAILWT3	Character	5	N	
24	RLWT3MILES	Character	5	N	
25	RLWT3YEAR	Character	5	N	
26	RAILWT4	Character	5	N	
27	RLWT4MILES	Character	5	N	
28	RLWT4YEAR	Character	5	N	
29	WEIGHTLIMT	Character	7	N	
30	OOF_SURFCE	Character	5	N	
31	SURFCEMILE	Character	5	N	
32	OOF_TIES	Character	5	N	
33	NUM_TIES	Character	6	N	
34	TIE_MILES	Character	5	N	
35	MAINSWITCH	Character	4	N	
36	NUM_BRIDGE	Character	4	N	
37	BRIDGEFEET	Character	6	N	
** Total **			216		

Screen Display Formats

LINEID BN073

3:15:56 pm

LINE MILES 34.00
AVERAGE SPEED 25.0
SERVICE FREQUENCY 3/week

FRA CLASS

PERCENT 1	0.00
PERCENT 2	100
PERCENT 3	0.00

CURVES

NUMBER	10
MAX CURVATURE	10.00

BRIDGES

NUMBER	1
LINEAR FEET	N/A

ICC CATEGORY 2
HAZMAT CODE B

NUMBER OF
MAINLINE SWITCH 25 WEIGHTLIMIT 263000

MAX TRAILING TONS

OUT	6942.00
BACK	3159.00

RULING GRADE 0.60
BALLAST Granite

RAIL WEIGHTS

WEIGHT	110.0	112.0	77.00	0.00
MILES	29.00	4.00	1.00	0.00
YEAR LAID	1984	1984	1902	N/A

OUT OF FACE MAINTENANCE

SURFACE	1983 MILES	34.00
TIES	1982 MILES	34.00
NUMBER_TIES	29169	

Hit ESC to EXIT

Prev/Next PgUp/PgDn

LINEID

BN001

3:25:46 p

DESTINATION	1987	1988	1989
DULUTH	57752	35983	48693
MINN-ST. PAUL	375061	156108	466244
OTHER MINN/WSC	768519	801035	34467
MIDLAND SOUTHWEST	134984	303094	176108
PACIFIC NORTHWEST	113598	516912	167333
NORTH DAKOTA	12210	842	11424
OTHER	102682	208908	55038

Hit ESC to EXIT

Prev/Next PgUp/PgDn

CITY ABERCROMBIE
LINEID CM052

3:22:10 p

DESTINATION	1987	1988	1989
DULUTH	113779	84639	79937
MINN-ST. PAUL	141316	105499	96046
OTHER MINN/WSC	108987	17590	145414
MIDLAND SOUTHWEST	0	0	0
PACIFIC NORTHWEST	0	0	0
NORTH DAKOTA	51630	91150	74581
OTHER	3720	447	0

Totals in Hundredweights

Hit ESC to EXIT

Prev/Next PgUp/PgDn

LINEID BNO01

3:24:36 p

COMMODITY	1987	1988	1989
WHEAT	393602	888081	335609
DURUM	775316	825069	408120
BARLEY	312245	180359	153001
SUNFLR	3248	2155	15470
CORN	0	0	0
FLAX	0	407	0
OATS	47786	27214	9561
BEANS	0	0	0
OTHER	32608	99598	37548

MODE	1987	1988	1989
SINGLE CAR	858199	630558	375817
MULTI-CAR	354432	1026117	127285
UNIT TRAIN	0	0	205720
TRUCK	352177	366207	250486

Totals in Hundredweight

Prev/Next PgUp/PgD

Hit ESC to EXIT

CITY LINEID ABERCROMBIE
CM052

3:17:40 p

COMMODITY	1987	1988	1989
WHEAT	209292	198762	267190
DURUM	37885	2830	0
BARLEY	30302	22171	21609
SUNFLR	8451	6895	10194
CORN	0	0	10930
FLAX	3018	983	179
OATS	18093	2058	3600
BEANS	112391	65629	82275
OTHER	0	0	0

MODE	1987	1988	1989
SINGLE CAR	0	0	0
MULTI-CAR	0	0	0
UNIT TRAIN	0	0	2479
TRUCK	419434	299328	393499

Totals in Hundredweight

Hit ESC to EXIT

Prev/Next PgUp/PgDn

LINEID BN001

2:54:17

YEAR	TOTAL SHIPPED
1985	1388639
1986	2472219
1987	1564808
1988	2022884
1989	959310

Totals in Hundredweight

Hit ESC to EXIT

Prev/Next PgUp/PgDn

Program Files

Volume In drive C is DRIVE_C
 Volume Serial Number is 4164-10D3
 Directory of C:\NDRR

.	<DIR>	08-07-90	3:03p				
....	<DIR>	08-07-90	3:03p				
ADDCITY	POP	1103 05-28-90	9:49p	LINEDEST	FMO	2544 05-31-90	1:14p
ADDLINE	POP	1222 05-28-90	9:49p	LINEDEST	DBO	664 05-31-90	1:46p
BACKC	BCH	1139 05-28-90	12:53p	LINEIDPR	DBO	544 05-23-90	8:21p
BACKL	BCH	1407 05-28-90	1:09p	LINEIDS	VAL	873 05-28-90	9:29p
BACKP	BCH	837 05-28-90	12:30p	LINEPHYS	DBO	1040 05-25-90	9:13p
BACKUPP	POP	1034 05-28-90	10:16p	LINETEST	PRG	414 05-31-90	10:17a
BACKUPPP	BCH	843 05-28-90	12:22p	LINETEST	DBO	668 05-31-90	11:32a
BACKUPT	POP	1184 05-28-90	10:21p	LINETOTA	FMO	1456 08-05-91	2:47p
CATALOG	CAT	607 04-24-91	12:48a	LINETOTA	NDX	3072 05-28-90	11:47p
CDCITY	POP	1080 05-28-90	9:50p	LINETOTA	BAK	393 05-30-90	7:20p
CDLINE	POP	1218 05-28-90	9:51p	LINETOTA	PRG	396 05-30-90	7:20p
CHRTMSTR	DBO	38996 10-21-88	12:34a	LINETOTA	MDX	6144 05-27-90	5:31p
CITYALL	DBO	664 04-24-91	12:47a	LINETOTA	FMT	1712 05-30-90	6:46p
CITYALL	NDX	9216 05-25-90	5:23p	LINETOTA	POP	1162 05-28-90	10:20p
CITYALL	PRG	398 05-31-90	1:05p	LINETOTA	SCR	1673 05-30-90	6:46p
CITYALL	DBF	132026 05-30-90	11:20a	LINETOTA	DBF	4734 05-28-90	11:40p
CITYALL	BAK	398 05-31-90	1:05p	LINETOTA	DBO	664 05-30-90	8:01p
CITYALL	FMO	4028 04-24-91	12:47a	LINETOTL	POP	1162 05-30-90	8:14p
CITYALL	FMT	3559 05-31-90	1:07p	MAIN	DBO	78964 08-05-91	2:46p
CITYALL	SCR	8703 05-31-90	1:07p	MAIN	PRG	84055 05-31-90	3:54p
CITYALL	MDX	16384 05-25-90	3:55p	MAIN	POP	1200 05-30-90	5:42p
COMMODE	POP	1396 05-31-90	11:46a	NDRR	DIR	4527 04-24-91	12:48a
DESTALL	NDX	9216 05-27-90	6:18p	NDRR	PRG	29747 05-31-90	3:55p
DESTALL	FMO	2688 05-31-90	11:17a	NDRR	APP	960 05-27-90	4:20p
DESTALL	DBF	74426 05-30-90	11:20a	NDRR	DBO	29140 08-05-91	2:46p
DESTALL	MDX	16384 05-27-90	6:17p	PHYSICAL	PRG	433 05-28-90	7:12p
DESTALL	FMT	2633 05-31-90	11:17a	PHYSICAL	MDX	4097 05-30-90	6:26p
DESTALL	DBO	664 05-28-90	7:30p	PHYSICAL	FMO	4156 05-31-90	1:25p
DESTALL	SCR	5102 05-31-90	11:17a	PHYSICAL	BAR	1061 05-28-90	11:04p
DESTALL	BAK	351 05-28-90	7:09p	PHYSICAL	FMT	3694 05-31-90	1:24p
DESTALL	PRG	398 05-28-90	7:09p	PHYSICAL	DBF	11370 05-31-90	3:30p
DESTINT	POP	1398 05-28-90	10:19p	PHYSICAL	SCR	7947 05-31-90	1:25p
DISPLAY	POP	1145 05-30-90	4:36p	PHYSICAL	NDX	2048 05-30-90	6:26p
DISPLAYT	POP	1404 05-30-90	7:48p	PICCITYT	VAL	1011 05-31-90	2:56p
EXIT	POP	926 05-28-90	10:17p	PICKLINE	VAL	963 05-31-90	2:34p
FINDERT	POP	1304 05-30-90	8:43p	PIKLINET	VAL	1042 05-31-90	3:06p
FINDLINE	POP	918 05-23-90	10:24p	PKDESTCY	VAL	998 05-31-90	3:08p
LINEALL	BAK	396 05-30-90	7:20p	PKDESTLN	VAL	1012 05-31-90	3:09p
LINEALL	DBO	660 05-30-90	7:22p	PKLINETO	VAL	1012 05-31-90	3:11p
LINEALL	DBF	31842 05-30-90	11:22a	RAILROAD	CAT	5675 05-31-90	3:31p
LINEALL	NDX	3072 05-25-90	8:26p	RETURNER	PRG	26 05-28-90	10:28p
LINEALL	SCR	8520 05-31-90	1:10p	RETURNER	DBO	168 04-24-91	12:48a
LINEALL	FMT	3592 05-31-90	1:10p	TEST	PRG	1949 05-30-90	5:51p
LINEALL	PRG	393 05-30-90	7:20p	TEST	DBO	1760 05-30-90	5:52p
LINEALL	FMO	4012 05-31-90	1:10p	TESTING	DBO	16544 05-23-90	10:25p
LINEALL	MDX	6144 05-25-90	4:01p	TESTMESG	PRG	16441 05-30-90	5:52p
LINEDEST	DBF	17442 05-28-90	11:40p	TESTMESG	DBO	15532 05-30-90	5:52p
LINEDEST	NDX	3072 05-27-90	7:06p	TODEST	POP	1396 05-30-90	8:12p
LINEDEST	MDX	6144 05-27-90	7:06p	TRAFFIC	BAR	1129 05-28-90	12:41p
LINEDEST	FMT	2522 05-31-90	1:13p	UNTITLED	CAT	426 05-16-90	8:03p
LINEDEST	BAK	459 05-31-90	10:03a	UPDATE	POP	1162 05-28-90	9:36p
LINEDEST	SCR	4857 05-31-90	1:14p	UPDATET	POP	1490 05-28-90	9:46p
LINEDEST	PRG	396 05-31-90	10:03a	NDRR	PRN	0 04-24-91	12:50a

108 File(s) 36345856 bytes free

Application Generation Documentation

Application Documentation for System: NDRR.PRG

Application Author: UPPER GREAT PLAINS TRANSPORTATION INSTITUTE
dBASE Version.....: dBASE IV APPLICATION GENERATOR

Display Application Sign-On Banner: Yes

```
Screen Image:
0           10           20           30           40           50           60           70
>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....
00:
01:
02:
03:
04:
05:
06:                Welcome to the
07:
08:
09:                NORTH DAKOTA RAILROAD
10:                LINE SEGMENT DATABASE
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....
```

Main Menu to Open after Sign-On: MAIN.POP

Sets for Application:

```
-----
Bell                OFF
Carry               OFF
Centry             OFF
Confirm            OFF
Delimiters         OFF
Display Size 25 lines
Drive
Escape             ON
Path
Safety             ON
```


Starting Colors for Application:

Color Settings:

Text : W+/B
Heading : W/B
Highlight : GR+/BG
Box : GR+/BG
Messages : W+/N
Information : B/W
Fields : N/BG

Database/View: PHYSICAL.DBF

Index File(s):PHYSICAL.NDX

=====

Menu/Picklist definitions follow:

Layout Report for Popup Menu: MAIN

Screen Image:

0 10 20 30 40 50 60 70

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....

00:

01:

02:

03:

04:

05:

06:

07:

08:

09:

10:

11:

12:

13:

14:

15:

16:

17:

18:

19:

20:

21:

22:

23:

24:

Select a Line Characteristic to display:
1. PHYSICAL AND OPERATING DATA
2. TRAFFIC DATA
3. EXIT

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|

Setup for MAIN follows:

Description: This is the main menu of the North Dakota Railroad Database.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Before Menu dBASE Code MAIN:

SET STATUS OFF
SET SCOREBOARD OFF

Bar actions for Menu MAIN follow:

Bar: 1

Prompt: Select a Line Characteristic to display:

Action: Text only defined for this option - NO ACTION

Bar: 2

Prompt: 1. PHYSICAL AND OPERATING DATA

Action: Open a Bar Menu Named: PHYSICAL

New Database/View: PHYSICAL.DBF

New Index File(s): PHYSICAL.NDX

Bar: 3

Prompt: 2. TRAFFIC DATA

Action: Open a Bar Menu Named: TRAFFIC

New Database/View: CITYALL.DBF

New Index File(s): CITYALL.NDX

Bar: 4

Prompt: 3. EXIT

Action: Quit to DOS:

Layout Report for Horizontal Bar Menu: PHYSICAL

Screen Image:

0 10 20 30 40 50 60 70

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

00:							
01:	DISPLAY RECORD	UPDATE A RECORD	MAINTNCE	EXIT			
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for PHYSICAL follows:

Description: This menu controls the Physical and Operating data

Message Line Prompt for Menu: Use the left and right curcor keys to choose an option from this menu

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu PHYSICAL follow:

Bar: 1

Prompt: DISPLAY RECORD

Action: Open a Popup Menu Named: DISPLAY

Bar: 2

Prompt: UPDATE A RECORD

Action: Open a Popup Menu Named: UPDATE

Bar: 3

Prompt: MAINTNCE

Action: Open a Popup Menu Named: BACKUPP

Bar: 4

Prompt: EXIT

Action: Open a Popup Menu Named: EXIT

Layout Report for Horizontal Bar Menu: TRAFFIC

Screen Image:

0 10 20 30 40 50 60 70

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

00:				
01:	DISPLAY A RECORD	UPDATE A RECORD	MAINTNCE	EXIT
02:				
03:				
04:				
05:				
06:				
07:				
08:				
09:				
10:				
11:				
12:				
13:				
14:				
15:				
16:				
17:				
18:				
19:				
20:				
21:				
22:				
23:				
24:				

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for TRAFFIC follows:

Description: This menu controls access to the Traffic Characteristics

Message Line Prompt for Menu: Use the left and right cursor keys to choose an option from this menu.

Database/View: CITYALL.DBF
Index File(s): CITYALL.NDX

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu TRAFFIC follow:

Bar: 1

Prompt: DISPLAY A RECORD

Action: Open a Popup Menu Named: FINDERT

Bar: 2

Prompt: UPDATE A RECORD

Action: Open a Popup Menu Named: UPDATET

Bar: 3

Prompt: MAINTNCE

Action: Open a Popup Menu Named: BACKUPT

Bar: 4

Prompt: EXIT

Action: Open a Popup Menu Named: EXIT

Layout Report for Popup Menu: DISPLAY

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:	ENTER A LINEID						
05:	CHOOSE A LINEID						
06:	-----						
07:	EXIT APPLICATION						
08:	EXIT TO DOS						
09:	ESC = EXIT MENU						
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for DISPLAY follows:

Description: This menu gives two choices for displaying a Lineid record

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu DISPLAY follow:

Bar: 1

Prompt: ENTER A LINEID

Action: Run dBASE Program: DO LINETEST

Bar: 2

Prompt: CHOOSE A LINEID

Action: Open a Values Picklist Named: PICKLINE

Bar: 3

Prompt: -----

Action: Text only defined for this option - NO ACTION

Bar: 4

Prompt: EXIT APPLICATION

Action: Run dBASE Program: DO RETURNER

Bar: 5

Prompt: EXIT TO DOS

Action: Quit to DOS:

Bar: 6

Prompt: ESC = EXIT MENU

Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: UPDATE

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

ADD A RECORD
CHANGE/DELETE A RECORD

Remember to back up the
file after updates. See
Maintenance.
ESC = EXIT MENU

Setup for UPDATE follows:

Description: This menu contains the update processes for a database

Message Line Prompt for Menu: Use the up and down cursor keys to choose options from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu UPDATE follow:

Bar: 1

Prompt: ADD A RECORD
Action: APPEND
Format File: physical.fmt

Bar: 2

Prompt: CHANGE/DELETE A RECORD
Action: Browse File

Bar: 3

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 4

Prompt: Remember to back up the
Action: Text only defined for this option - NO ACTION

Bar: 5

Prompt: file after updates. See
Action: Text only defined for this option - NO ACTION

Bar: 6

Prompt: Maintenance.
Action: Text only defined for this option - NO ACTION

Bar: 7

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: BACKUPP

Screen Image:

0	10	20	30	40	50	60	70
---	----	----	----	----	----	----	----

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

00:
01:
02:
03:
04:
05:
06:
07:
08:
09:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

BACK UP A FILE

EXIT APPLICATION

EXIT TO DOS

ESC = EXIT MENU

Setup for BACKUPP follows:

Description: This menu allows the user to backup database changes.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu BACKUPP follow:

Bar: 1

Prompt: BACK UP A FILE
Action: Call Batch Named: BACKP

Bar: 2

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 3

Prompt: EXIT APPLICATION
Action: Run dBASE Program: DO RETURNER

Bar: 4

Prompt: EXIT TO DOS
Action: Quit to DOS:

Bar: 5

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: EXIT

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:						EXIT APPLICATION	
04:						EXIT TO DOS	
05:							
06:						ESC = EXIT MENU	
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for EXIT follows:

Description: This menu provides an exit from this menu.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an exit option.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu EXIT follow:

Bar: 1

Prompt: EXIT APPLICATION

Action: Run dBASE Program: DO RETURNER

Bar: 2

Prompt: EXIT TO DOS

Action: Quit to DOS:

Bar: 3

Prompt: -----

Action: Text only defined for this option - NO ACTION

Bar: 4

Prompt: ESC = EXIT MENU

Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: FINDERT

Screen Image:

```
0          10          20          30          40          50          60          70
>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.
00:
01:
02:
03: FIND COMMODITY/MODE TOTALS
04: FIND TO-DESTINATION TOTALS
05: FIND LINE TOTALS
06: -----
07: EXIT APPLICATION
08: EXIT TO DOS
09: ESC = EXIT MENU
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
```

```
>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.
```

Setup for FINDERT follows:

Description: This menu opens up sub-menus which give display options.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option.

Colors for Menu/Picklist:

Color Settings:

Text : W+/B
Heading : W/B
Highlight : GR+/BG
Box : GR+/BG
Messages : W+/N
Information : B/W
Fields : N/BG

Bar actions for Menu FINDERT follow:

Bar: 1

Prompt: FIND COMMODITY/MODE TOTALS
Action: Open a Popup Menu Named: COMMODE
New Database/View: CITYALL.DBF
New Index File(s): CITYALL.NDX

Bar: 2

Prompt: FIND TO-DESTINATION TOTALS
Action: Open a Popup Menu Named: TODEST
New Database/View: DESTALL.DBF
New Index File(s): DESTALL.NDX

Bar: 3

Prompt: FIND LINE TOTALS
Action: Open a Popup Menu Named: LINETOTL

Bar: 4

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 5

Prompt: EXIT APPLICATION
Action: Run dBASE Program: DO RETURNER

Bar: 6

Prompt: EXIT TO DOS
Action: Quit to DOS:

Bar: 7

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: UPDATET

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:	ADD CITY RECORD						
04:	CHANGE/DELETE CITY RECORD						
05:	ADD LINEID RECORD						
06:	CHANGE/DELETE LINEID RECORD						
07:	-----						
08:	Remember to back up the						
09:	file after updates. See						
10:	Maintenance.						
11:	ESC = EXIT MENU						
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for UPDATET follows:

Description: This menu controls the updates to the Traffic database file

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text : W+/B
Heading : W/B
Highlight : GR+/BG
Box : GR+/BG
Messages : W+/N
Information : B/W
Fields : N/BG

Bar actions for Menu UPDATET follow:

Bar: 1

Prompt: ADD CITY RECORD
Action: Open a Popup Menu Named: ADDCITY
New Database/View: CITYALL.DBF
New Index File(s): CITYALL.NDX

Bar: 2

Prompt: CHANGE/DELETE CITY RECORD
Action: Open a Popup Menu Named: CDCITY
New Database/View: CITYALL.DBF
New Index File(s): CITYALL.NDX

Bar: 3

Prompt: ADD LINEID RECORD
Action: Open a Popup Menu Named: ADDLINE
New Database/View: LINEALL.DBF
New Index File(s): LINEALL.NDX

Bar: 4

Prompt: CHANGE/DELETE LINEID RECORD
Action: Open a Popup Menu Named: CDLINE
New Database/View: LINEALL.DBF
New Index File(s): LINEALL.NDX

Bar: 5

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 6

Prompt: Remember to back up the
Action: Text only defined for this option - NO ACTION

Bar: 7

Prompt: file after updates. See
Action: Text only defined for this option - NO ACTION

Bar: 8

Prompt: Maintenance.

Action: Text only defined for this option - NO ACTION

Bar: 9

Prompt: ESC = EXIT MENU

Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: BACKUPT

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							BACK UP A CITY FILE
04:							BACK UP A LINEID FILE
05:							
06:							EXIT APPLICATION
07:							EXIT TO DOS
08:							ESC = EXIT MENU
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for BACKUPT follows:

Description: This menu backups all CITY indexed databases.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text : W+/B
Heading : W/B
Highlight : GR+/BG
Box : GR+/BG
Messages : W+/N
Information : B/W
Fields : N/BG

Bar actions for Menu BACKUPT follow:

Bar: 1

Prompt: BACK UP A CITY FILE
Action: Call Batch Named: BACKC
New Database/View: CITYALL.DBF

Bar: 2

Prompt: BACK UP A LINEID FILE
Action: Call Batch Named: BACKL
New Database/View: LINEALL.DBF
New Index File(s): LINEALL.NDX

Bar: 3

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 4

Prompt: EXIT APPLICATION
Action: Run dBASE Program: DO RETURNER

Bar: 5

Prompt: EXIT TO DOS
Action: Quit to DOS:

Bar: 6

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for PICKLINE

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							XXXXXXXXXXXXXXXXXX
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for PICKLINE follows:

Description: This is a list of the available Lineids

Message Line Prompt for Menu: Use the up and down cursor keys to choose a Lineid record to display.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Picklist specification for PICKLINE follows:

Values Picklist

Field to List Values for: LINEID

Prompt: XXXXXXXXXXXXXXXX

Action: Insert the following dBASE code:

SET BELL OFF

Position Record Pointer by: SEEK LISTVAL

Message Line Prompt for Item: Use the up and down cursor keys to choose a
LINEID. Hit ESC to EXIT.

Before dBASE Code for this item:

set format to physical
edit noedit nomenu

Multiple Action Summary for Batch Object: BACKP

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06: COPY PHYSICAL.DBF TO PHYSBACK.DBF							
07: PACK PHYSICAL.DBF							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for BACKP follows:

Description: This process backups the PHYSICAL database.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Batch actions for Menu BACKP follow:

Batch Action: 1

Prompt: COPY PHYSICAL.DBF TO PHYSBACK.DBF

Action: Copy Records to File physback

Batch Action: 2

Prompt: PACK PHYSICAL.DBF

Action: Pack Current File

Layout Report for Popup Menu: COMMODE

Screen Image:

```
0          10          20          30          40          50          60          70
>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.
00:
01:
02:
03:
04:
05:  ENTER A CITY
06:  CHOOSE A CITY
07:  ENTER A LINEID
08:  CHOOSE A LINEID
09:  -----
10:  EXIT APPLICATION
11:  EXIT TO DOS
12:  ESC = EXIT MENU
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:
```

```
>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

```

Setup for COMMODE follows:

Description: This menu gives choices for displaying a record.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu COMMODE follow:

Bar: 1

Prompt: ENTER A CITY
Action: Run dBASE Program: DO CITYALL
New Database/View: DESTALL.DBF

Bar: 2

Prompt: CHOOSE A CITY
Action: Open a Values Picklist Named: PICCITYT
New Database/View: DESTALL.DBF
New Index File(s): DESTALL.NDX

Bar: 3

Prompt: ENTER A LINEID
Action: Run dBASE Program: DO LINEALL
New Database/View: LINEDEST.DBF
New Index File(s): LINEDEST.NDX

Bar: 4

Prompt: CHOOSE A LINEID
Action: Open a Values Picklist Named: PIKLINET
New Database/View: LINEDEST.DBF
New Index File(s): LINEDEST.NDX

Bar: 5

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 6

Prompt: EXIT APPLICATION
Action: Run dBASE Program: DO RETURNER

Bar: 7

Prompt: EXIT TO DOS
Action: Quit to DOS:

Bar: 8

Prompt: ESC = EXIT MENU

Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: TODEST

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06:	ENTER A CITY						
07:	CHOOSE A CITY						
08:	ENTER A LINEID						
09:	CHOOSE A LINEID						
10:	-----						
11:	EXIT APPLICATION						
12:	EXIT TO DOS						
13:	ESC = EXIT MENU						
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for TODEST follows:

Description: This menu gives choices for displaying a record.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text : W+/B
Heading : W/B
Highlight : GR+/BG
Box : GR+/BG
Messages : W+/N
Information : B/W
Fields : N/BG

Bar actions for Menu TODEST follow:

Bar: 1

Prompt: ENTER A CITY
Action: Run dBASE Program: DO DESTALL
New Database/View: DESTALL.DBF

Bar: 2

Prompt: CHOOSE A CITY
Action: Open a Values Picklist Named: PKDESTCY
New Database/View: DESTALL.DBF
New Index File(s): DESTALL.NDX

Bar: 3

Prompt: ENTER A LINEID
Action: Run dBASE Program: DO LINEDEST
New Database/View: LINEDEST.DBF
New Index File(s): LINEDEST.NDX

Bar: 4

Prompt: CHOOSE A LINEID
Action: Open a Values Picklist Named: PKDESTLN
New Database/View: LINEDEST.DBF
New Index File(s): LINEDEST.NDX

Bar: 5

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 6

Prompt: EXIT APPLICATION
Action: Run dBASE Program: DO RETURNER

Bar: 7

Prompt: EXIT TO DOS
Action: Quit to DOS:

Bar: 8

Prompt: ESC = EXIT MENU

Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: LINETOTL

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06:							
07:	ENTER A LINEID						
08:	CHOOSE A LINEID						
09:	-----						
10:	EXIT APPLICATION						
11:	EXIT TO DOS						
12:	ESC = EXIT MENU						
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for LINETOTL follows:

Description: This menu provides selections for displaying Line totals.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option. Hit ESC to exit.

Database/View: LINETOTA.DBF

Index File(s): LINETOTA.NDX

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu LINETOTL follow:

Bar: 1

Prompt: ENTER A LINEID
Action: Run dBASE Program: DO LINETOTA

Bar: 2

Prompt: CHOOSE A LINEID
Action: Open a Values Picklist Named: PKLINETO

Bar: 3

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 4

Prompt: EXIT APPLICATION
Action: Run dBASE Program: DO RETURNER

Bar: 5

Prompt: EXIT TO DOS
Action: Quit to DOS: .

Bar: 6

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: ADDCITY

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

ADD A COMMODITY/MODE RECORD ADD A TO-DESTINATION RECORD ----- ESC = EXIT MENU
--

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for ADDCITY follows:

Description: This menu allows options for adding a CITY indexed record.

Message Line Prompt for Menu: Use the up and down cursor keys to choose a record/database for addition.

Database/View: CITYALL.DBF
Index File(s): CITYALL.NDX

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu ADDCITY follow:

Bar: 1

Prompt: ADD A COMMODITY/MODE RECORD
Action: APPEND
Format File: cityall.fmt

Bar: 2

Prompt: ADD A TO-DESTINATION RECORD
Action: APPEND
Format File: destall.fmt
New Database/View: DESTALL.DBF
New Index File(s): DESTALL.NDX

Bar: 3

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 4

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: CDCITY

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

CHANGE/DELETE COMMODITY/MODE RECORD
CHANGE/DELETE TO-DESTINATION RECORD

ESC = EXIT MENU

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for CDCITY follows:

Description: This menu allows changing or deleting a record.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu CDCITY follow:

Bar: 1

Prompt: CHANGE/DELETE COMMODITY/MODE RECORD
Action: Browse File
New Database/View: CITYALL.DBF

Bar: 2

Prompt: CHANGE/DELETE TO-DESTINATION RECORD
Action: Browse File
New Database/View: DESTALL.DBF
New Index File(s): DESTALL.NDX

Bar: 3

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 4

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: ADDLINE

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

ADD COMMODITY/MODE RECORD
ADD TO-DESTINATION RECORD
ADD LINE TOTAL RECORD

ESC = EXIT MENU

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for ADDLINE follows:

Description: This menu allows the addition of LINEID indexed records.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu ADDLINE follow:

Bar: 1

Prompt: ADD COMMODITY/MODE RECORD
Action: APPEND
Format File: lineall.fmt
New Database/View: LINEALL.DBF
New Index File(s): LINEALL.NDX

Bar: 2

Prompt: ADD TO-DESTINATION RECORD
Action: APPEND
Format File: linedest.fmt
New Database/View: LINEDEST.DBF
New Index File(s): LINEDEST.NDX

Bar: 3

Prompt: ADD LINE TOTAL RECORD
Action: APPEND
Format File: linetota.fmt
New Database/View: LINETOTA.DBF
New Index File(s): LINETOTA.NDX

Bar: 4

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 5

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Layout Report for Popup Menu: CDLINE

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

CHANGE/DELETE COMMODITY/MODE RECORD
CHANGE/DELETE TO-DESTINATION RECORD
CHANGE/DELETE LINE TOTAL RECORD

ESC = EXIT MENU

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for CDLINE follows:

Description: This menu allows the changing or deleting of LINEID records.

Message Line Prompt for Menu: Use the up and down cursor keys to choose an option from this menu.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Bar actions for Menu CDLINE follow:

Bar: 1

Prompt: CHANGE/DELETE COMMODITY/MODE RECORD
Action: Browse File
New Database/View: LINEALL.DBF
New Index Files(s): LINEDEST.NDX

Bar: 2

Prompt: CHANGE/DELETE TO-DESTINATION RECORD
Action: Browse File
New Database/View: LINEDEST.DBF
New Index File(s): LINEDEST.NDX

Bar: 3

Prompt: CHANGE/DELETE LINE TOTAL RECORD
Action: Browse File
New Database/View: LINETOTA.DBF
New Index File(s): LINETOTA.NDX

Bar: 4

Prompt: -----
Action: Text only defined for this option - NO ACTION

Bar: 5

Prompt: ESC = EXIT MENU
Action: Text only defined for this option - NO ACTION

Multiple Action Summary for Batch Object: BACKC

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:							
04:							
05:	COPY CITYALL.DBF TO CITYBACK.DBF						
06:	PACK CITYALL.DBF						
07:	COPY DESTALL.DBF TO DESTBACK.DBF						
08:	PACK DESTALL.DBF						
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for BACKC follows:

Description: This backups all CITY indexed databases.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Batch actions for Menu BACKC follow:

Batch Action: 1

Prompt: COPY CITYALL.DBF TO CITYBACK.DBF

Action: Copy Records to File cityback

New Database/View: CITYALL.DBF

New Index File(s): CITYALL.NDX

Batch Action: 2

Prompt: PACK CITYALL.DBF

Action: Pack Current File

New Database/View: CITYALL.DBF

New Index File(s): CITYALL.NDX

Batch Action: 3

Prompt: COPY DESTALL.DBF TO DESTBACK.DBF

Action: Copy Records to File destback

New Database/View: DESTALL.DBF

New Index File(s): DESTALL.NDX

Batch Action: 4

Prompt: PACK DESTALL.DBF

Action: Pack Current File

New Database/View: DESTALL.DBF

New Index File(s): DESTALL.NDX

Multiple Action Summary for Batch Object: BACKL

Screen Image:

0	10	20	30	40	50	60	70
---	----	----	----	----	----	----	----

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

00:
01:
02:
03:
04:
05:
06:
07:
08:
09:
10:
11:
12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:

COPY LINEALL.DBF TO ALLBACK.DBF
PACK LINEALL.DBF
COPY LINEDEST.DBF TO LINEBACK.DBF
PACK LINEDEST.DBF
COPY LINETOTA.DBF TO TOTABACK.DBF
PACK LINETOTA.DBF

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for BACKL follows:

Description: This process backups all LINEID indexed databases.

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Batch actions for Menu BACKL follow:

Batch Action: 1

Prompt: COPY LINEALL.DBF TO ALLBACK.DBF

Action: Copy Records to File allback

New Database/View: LINEALL.DBF

New Index File(s): LINEALL.NDX

Batch Action: 2

Prompt: PACK LINEALL.DBF

Action: Pack Current File

New Database/View: LINEALL.DBF

New Index File(s): LINEALL.NDX

Batch Action: 3

Prompt: COPY LINEDEST.DBF TO LINEBACK.DBF

Action: Copy Records to File lineback

New Database/View: LINEDEST.DBF

New Index File(s): LINEDEST.NDX

Batch Action: 4

Prompt: PACK LINEDEST.DBF

Action: Pack Current File

New Database/View: LINEDEST.DBF

New Index File(s): LINEDEST.NDX

Batch Action: 5

Prompt: COPY LINETOTA.DBF TO TOTABACK.DBF

Action: Copy Records to File totaback

New Database/View: LINETOTA.DBF

New Index File(s): LINETOTA.DBF

Batch Action: 6

Prompt: PACK LINETOTA.DBF

Action: Pack Current File

New Database/View: LINETOTA.DBF

New Index File(s): LINETOTA.NDX

Layout Report for PICCITYT

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:	XXXXXXXXXXXXXXXXXX						
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for PICCITYT follows:

Description: This lists the available cities to choose in displaying a record

Message Line Prompt for Menu: Use the up and down cursor keys to find a city. Hit enter to display record.

Database/View: CITYALL.DBF

Index File(s): CITYALL.NDX

Colors for Menu/Picklist:

Color Settings:

Text : W+/B
Heading : W/B
Highlight : GR+/BG
Box : GR+/BG
Messages : W+/N
Information : B/W
Fields : N/BG

Picklist specification for PICCITYT follows:

Values Picklist

Field to List Values for: CITY

Prompt: XXXXXXXXXXXXXXXX

Action: Insert the following dBASE code:

SET BELL OFF

Position Record Pointer by: SEEK LISTVAL

Message Line Prompt for Item: Use the up and down cursor keys to choose a CITY. Hit ESC to EXIT.

Before dBASE Code for this item:

SET FORMAT TO CITYALL
EDIT NOEDIT NOMENU

Layout Report for PIKLINET

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:						XXXXXXXXXXXXXXXXXX	
02:							
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							

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16:
17:
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19:
20:
21:
22:
23:
24:

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for PIKLINET follows:

Description: This menu lists the available Lineids for displaying a record.

Message Line Prompt for Menu: Use the up and down cursor keys to choose a Lineid for displaying a record.

Database/View: LINEALL.DBF
Index File(s): LINEALL.NDX

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Picklist specification for PIKLINET follows:

Values Picklist

Field to List Values for: LINEID
Prompt: XXXXXXXXXXXXXXXX
Action: Insert the following dBASE code:

SET BELL OFF

Position Record Pointer by: SEEK LISTVAL

Message Line Prompt for Item: Use the up and down cursor keys to choose a
LINEID. Hit ESC to EXIT.

Before dBASE Code for this item:

SET FORMAT TO LINEALL
EDIT NOEDIT NOMENU

Layout Report for PKDESTCY

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:	XXXXXXXXXXXXXXXXXX						
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for PKDESTCY follows:

Description: This pick list allows the user to choose a city to display.

Message Line Prompt for Menu: Use the up and down cursor keys to choose a city. Hit Esc to exit.

Database/View: DESTALL.DBF
Index File(s): DESTALL.NDX

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Picklist specification for PKDESTCY follows:

Values Picklist

Field to List Values for: CITY
Prompt: XXXXXXXXXXXXXXXX
Action: Insert the following dBASE code:

SET BELL OFF
Position Record Pointer by: SEEK LISTVAL

Message Line Prompt for Item: Use the up and down cursor keys to choose a CITY. Hit ESC to EXIT.

Before dBASE Code for this item:

SET FORMAT TO DESTALL
EDIT NOEDIT NOMENU

Layout Report for PKDESTLN

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:	XXXXXXXXXXXXXXXXXX						
03:							
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							
12:							
13:							
14:							
15:							
16:							
17:							
18:							
19:							
20:							
21:							
22:							
23:							
24:							

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for PKDESTLN follows:

Description: This list provides the user with a selection of lineids to dis.

Message Line Prompt for Menu: Use the up and down cursor keys to choose a Lineid. Hit ESC to exit.

Database/View: LINEDEST.DBF
Index File(s): LINEDEST.NDX

Colors for Menu/Picklist:

Color Settings:

Text : W+/B
Heading : W/B
Highlight : GR+/BG
Box : GR+/BG
Messages : W+/N
Information : B/W
Fields : N/BG

Picklist specification for PKDESTLN follows:

Values Picklist

Field to List Values for: LINEID
Prompt: XXXXXXXXXXXXXXXX
Action: Insert the following dBASE code:

SET BELL OFF
Position Record Pointer by: SEEK LISTVAL

Message Line Prompt for Item: Use the up and down cursor keys to choose a
LINEID. Hit ESC to EXIT.

Before dBASE Code for this item:

SET FORMAT TO LINEDEST
EDIT NOEDIT NOMENU

Layout Report for PKLINETO

Screen Image:

0	10	20	30	40	50	60	70
>.....+.....+.....+.....+.....+.....+.....+..... .							
00:							
01:							
02:							
03:	XXXXXXXXXXXXXXXXXX						
04:							
05:							
06:							
07:							
08:							
09:							
10:							
11:							

12:
13:
14:
15:
16:
17:
18:
19:
20:
21:
22:
23:
24:

>.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.....+.....|.

Setup for PKLINETO follows:

Description: This lists the available Lineids to select for displaying
recd.

Message Line Prompt for Menu: Use the up and down cursor keys to choose a
Lineid. Hit ESC to exit.

Database/View: LINETOTA.DBF
Index File(s): LINETOTA.NDX

Colors for Menu/Picklist:

Color Settings:

Text	: W+/B
Heading	: W/B
Highlight	: GR+/BG
Box	: GR+/BG
Messages	: W+/N
Information	: B/W
Fields	: N/BG

Picklist specification for PKLINETO follows:

Values Picklist

Field to List Values for: LINEID
Prompt: XXXXXXXXXXXXXXXX
Action: Insert the following dBASE code:

SET BELL OFF

Position Record Pointer by: SEEK LISTVAL

Message Line Prompt for Item: Use the up and down cursor keys to choose a
LINEID. Hit ESC to EXIT.

Before dBASE Code for this item:

SET FORMAT TO LINETOTA
EDIT NOEDIT NOMENU

End of Application Documentation