Vol. 3 Number 1 Copyright 1979

January 1979

PPX-59 has been in existence for over a year now. As promised in previous issues of the PPX Exc hange, this month's issue discusses the renewal of PPX-59 memberships in the article "It's Renewal Time at PPX-59!" Program submittal is a very important aspect of a successful program exchange; therefore, we would like to take this opportunity to thank all members who have contributed their program(s). PPX would like to give special recognition to the top five submitters in the form of a complimentary one year membership. These members are:

Michael D'Elia

Theodore Bones Jr.

Maurice Swinnen

Charles Kluepfel

Jared Weinberger

PPX POTPOURRI

- 1. Two new pakettes, Marketing/Sales and Production Planning, have been added to the PPX-59 library. With the publication of these collections of programs, PPX now offers 16 pakettes in various specialized areas. The December 1978 Addendum lists the contents of each pakette on pages 6-1 and 6-2. Descriptions of the individual programs within each pakette can be found in the "Program Abstracts" section of your Catalog and Addendum. Pakettes may be ordered by writing the name and catalog number of each pakette on a PPX-59 order form and enclosing \$10 for each pakette (plus taxes, postage and handling as required).
- 2. For better service, all correspondence and orders should include your membership number. If you have misplaced your number, please check the mailing label on your latest newsletter package from PPX.
- 3. As you are probably aware, the PPX-59 Catalog is prepared and maintained on a computer. Due to the way the input parameters are specified, it is not possible for PPX to list co-authored programs. Therefore, when a program written by multiple authors is accepted, only one author can be given credit in the Catalog. (However, all authors' names will appear in the program documentation sent to PPX members.) PPX uses the first author listed in the submittal agreement for Catalog purposes.
- 4. Only those accessories and programs listed in your Catalog and Addendum may be ordered through PPX. All other items must be ordered from:

Texas Instruments Accessory Sales P. O. Box 53 Lubbock, Texas 79408

Any items that are announced in the PPX Exc hange are usually immediately available through PPX. Simply write the item on your PPX order form. New Pakettes and Libraries announced by PPX as being available, are priced at \$10 and \$35, respectively. Materials described in your newsletter that are **not** available from PPX will include the name and address of the outlet making those items available.

5. Everyone has received the December 1978 Addendum to the July 1978 PPX-59 Catalog. The July 1978

Catalog contained abstracts of programs in 73 categories. With the publication of the C Addendum, ten new categories have been put to use. They are: Auditing(11), Consumer Finance(13), Quality Assurance(27), Reliability/Maintainability(28), Nutrition/Food Science(58), Programming(75), Seismology(76), Political Science(80), Law Enforcement(83), Water Resources(88). There are 16 categories still awaiting discovery by PPX members. The next Addendum will hopefully offer programs in all 99 categories.

6. It's a good idea to check your Catalog and Addendum to see if your program duplicates a PPX-59 program before you submit it to PPX. It is possible that you may submit a duplicate program between Addendum releases. Since you would have no way of knowing this, a "1 Complimentary Program" order form and replacement magnetic cards will be forwarded to you along with your program (duplicate) in accordance with normal PPX policy.

IT'S RENEWAL TIME AT PPX-59!

It's renewal time for many members of PPX-59. Here is the latest information on obtaining your second year of PPX-59 membership.

To insure continuation of your PPX-59 benefits, check the last four digits of your membership number against the table shown below for your renewal date. Your membership number corresponds with your original membership date.

Membership number	Must be postmarked by
0001-4842	February 28
4843-6014	March 15
6015-7056	April 15
7057-7525	May 15
7526-8257	June 15
8258-8923	July 15
Members with numbers gre	ater than 8923 will be informed

A renewal subscription card and reminder will be sent to each member in ample time to renew. The subscription card must be returned with a check or money order for \$15. Be sure to include your membership number on both your subscription card and check.

of their renewal dates in a future issue of PPX Exc hange.

MANIPULATION OF ALPHANUMERIC CODES Douglas E. MacLean

Editor's Note: This article is directed towards those TI-59 users who are curious about how the printer Op codes are handled by the TI-59.

One of the most unique features of the TI-59 is its ability to induce the PC-100A printer to produce alphanumeric printouts. The data utilized for these printouts is stored in the last four hierarchy pending registers. By directly accessing these registers with the HIR (hierarchy), code 82, instruction the innovative programmer can realize a great

savings of time and valuable program space.

Using the HIR instruction with a proper suffix permits the user to treat the hierarchy pending registers as though they were data registers. This gives the programmer the capability of shifting or altering the contents of the print registers without the need for totally re-entering the alphanumeric data. Multiplication by an even power of ten will shift the contents of the print registers to the left and division by an even number of ten will shift the print codes to the right. The deletion, alteration, and addition of letters (alphanumeric codes) may be accomplished by addition and subtraction into the correct hierarchy register.

The HIR command cannot be directly keyed in, but may be inserted into a program by going into learn mode, pressing STO 82 and then deleting the STO. There is a two digit suffix, XY, which follows the HIR command. X stands for the required hierarchy register operation; where 0 is STO, 1 is RCL, 3 is SUM, 4 is *Prd, 5 is INV SUM, and 6-9 are INV *Prd. Y stands for the hierarchy register to be accessed (1-8). XY may be entered in the same manner as

code 82.

Following are the hierarchy registers utilized in conjunction with the alphanumeric codes:

> Op 01 is stored in H-05 Op 02 is stored in H-06 Op 03 is stored in H-07 Op 04 is stored in H-08

where H-05 through H-08 are the fifth through eighth hierarchy registers, respectively.

Data for the alphanumeric print codes is stored in decimal format (beginning at the third position to the right of the decimal point) in its respective hierarchy register. Given code 13 for the letter "A" there are five positions per register in which the code can be stored:

Print Code Position	Storage Positions
1st (leftmost)	13 x 10 ⁻⁴
2nd	13 x 10 ⁻⁶
3rd (middle)	13 x 10 ⁻⁸
4th	13 x 10 ⁻¹⁰
5th (rightmost)	13 x 10 ⁻¹²

For example, enter 1314151617 in the display and press *OP 04. Go into learn mode and key in *LBL A HIR 18 R/S. (As HIR 18 cannot be keyed directly from the keyboard, press *LBL A STO 82 STO 18 R/S and delete the STO instructions.) Out of learn mode, press A, the display will be .0013141516. You have recalled the contents of hierarchy register 8. As mentioned earlier in describing XY, 1=RCL and 8=hierarchy register 8. (Only 10 digits can be displayed at one time; therefore, to observe the last 2 digits (17), you must multiply the display by 100.)

Let's try some input and modification without using the *Op code. First key in the following in learn mode:

000 0001 0002 0003 0004 0007 0009 010 0113 0145 015 019 021 022 0220 024 025 026 027 028 029 029 030 031 032 032 034 035 037 038 037 038 037 038 038 038 038 038 038 038 038 038 038	761122484816324816324816824816824816976324884816824288169763248816848248816884881688488168848816884881	BL BL B STD 088 2 STD 82 STD 488 R/S LBL B STD 488 R/S LBL B STD 82 STD	
001	11	8	
002	42	STO	
003			
084	43	STO	
005			
006	91	RIS	
007	76	LBL	
008	12	B	
009	42	STE	
010			
011	42	STO	
012	18	18	
013	91	R/S	
014	76	LBL	
015	13	C	
016	42	STO	
017	85	82	
018	42		
019	38		
020		R/8	
021	76	LBL	
022	14	D	
053	43	STD	
024	82		Ь
025	12	STO	172
026	48	48	
827	31	R/S	
058		LBL	
029	18	E	ľ
030	42		
831		82	ľ
032	42	SIL	k
833	58	28	
034	31	RZS	
030	(6)	FRE	
035	19	The same	
037	94		
038	82	82	
039	44		
040	0.0	58	
000 001 002 003 004 006 007 008 009 010 013 014 015 019 021 022 023 024 025 026 027 029 029 030 031 032 034 035 038 037 038 037 038 039 040 041	71	14/2	

Now delete the STO instructions beginning at the end of the listing. The result will be:

```
000 76 LBL

001 11 H

002 82 HIR STO 08

003 08 08 O8

004 91 R/S

005 76 LBL

006 12 B

007 82 HIR RCL 08

009 91 R/S

010 76 LBL

011 13 C

012 82 HIR SUM 08

013 38 38 SUM 08

014 91 R/S

015 76 LBL

016 14 D

017 82 HIR PRD 08

018 48 48 PRD 08

019 91 R/S

020 76 LBL

021 18 C*

022 82 HIR NV SUM 08

023 58 58 SUM 08

024 91 R/S

025 76 LBL

026 19 D*

027 82 HIR NV SUM 08

028 68 68 SUM 08

029 91 R/S
```

The italicized instructions to the right are the instruction equivalents of the HIR command. For example, HIR 08 (under LBL A) means STO (coded as 0) the display value into hierarchy register 8. This manipulates *Op 04. To change alphanumeric codes in *Op 03, 02, or 01 simply change the 8 to 7, 6, or 5, respectively.

Let's manipulate some alphanumeric codes. We'll begin by storing the letter "A" (alphanumeric code 13) in the leftmost print position. Key into the display 13 x 10⁻⁴ and

store by pressing A. Clear the display (this is necessary after using the EE key) and recall the result by pressing B (0.0013 will appear in the display). If *Op 05 is pressed, nothing will be printed. It should be noted that prior to the printing of any alphanumeric (that has been input or altered via the HIR instruction), it is necessary to sum I into the affected register by means of HIR 3n where n is the register being altered. Alphanumeric data that has been input with an Op code will not contain or require a 1 in the integer portion of the stored data. In order to execute *Op 05, sum the integer 1 into the register by placing 1 in the display and pressing C. To check the contents of the register, press B. Now press *Op 05 and the letter "A" will be printed in the first *Op 04 print position. Now let's move this letter one position to the right. First, remove the integer 1 by placing 1 in the display and pressing C'. Now shift the alphanumeric code to the right by entering 100 and pressing D'. Check the register contents by pressing B. Again enter I and press C. Press *Op 05 and note that the letter "A" has moved one print position to the right. To add the letter "T" to the printout enter 37 x 10-8 and sum into register 08 by pressing C. Press Op 05 and notice that the "T" is now next to the "A". (Note: the integer 1 must only be removed during multiplication and division operations.)

By using these techniques in your programs, it is possible to expand the scope of printout and usefulness of the already powerful TI-59/PC-100A combination.

ALL PPX-59 PROGRAMS AVAILABLE IN ONE PACKAGE

After examining our order records we have found that some PPX members are ordering very large quantities of single programs. For those members that need a large library of programs we believe we have the answer.

PPX-59 programs are now being put on microfiche. This microfiche contains the PPX-59 Catalog (with Addendums), instructions on how to use the microfiche, and the documentation for all the programs available. Also included in this offer are ten copies of the PPX Exc hange each time a newsletter is printed during your one year microfiche membership. For further information, write:

Texas Instruments PPX P. O. Box 53 Lubbock, Tx. 79408

FLAG SORTING William R. Bowman

Editor's Note: This article is presented in hopes that it will stimulate more sorting ideas.

The following discussion and demonstration presents a method of sorting and selecting numbers that contain a specified numeral in a specific position within a number. Though not very practical for general sorting, the method is interesting and provides a simple means for performing the specialized sorting as demonstrated below.

When performing the IF FLAG INDIRECT XX instruction, the TI-59 only recognizes the first digit to the left of the decimal point of the number stored in the indirect register XX. For example, if 96124.03129 is stored in indirect register XX, *IFF *IND XX tests for flag 4. Normally, when using the Indirect Flag Test, the flag number (by itself) is placed in the indirect register and is changed by the program to another flag number when certain conditions are met in the running program.

In the "Flag Sorting" method, a certain flag is set from the keyboard before the program is executed. The program places each number to be sorted into the indirect flag register, then tests to see if the numeral in the position just to the left of the decimal point matches the flag number set from the keyboard. If a match is found a transfer takes place. If no match is found, a transfer does not take place. The numbers to be sorted may be modified before they are placed in the indirect register, by shifting the decimal point to the right of the position you wish to test.

The brief demonstration program listed below obtains the numbers to be sorted from the random number generator program in the Master Library. The numbers obtained by this program are changed from decimal to whole numbers before sorting. The sort is made on the last position to the right of the decimal point.

Enter the following in learn mode (be sure to have the

Master Library inserted):

		76 LBL
	001	11 8
	002	SE POM
		15 15
	2004	74 000
	UUM	1 50K
		88 DIS
	006	65 ×
		05 5
		22 INV
		28 1.00
	010	Q5 -
	511	AO CED
1	011	42 914
		42 12
	013	87 IFF
	014	40 IND
	015	15 15
3	016	
	010	SI CID
	010	81 010
3	013	11 H
		76 LBL
	000 001 002 003 004 005 006 007 010 011 013 014 015 016 017 018 019 021	76 LBL 11 A PGM 15 15 71 SBR 865 5 05 5 228 LBG 95 28 LBG 95 15 87 IFFP 40 IND 15 33 X2 66 PGH 11 A LBL 91 R/S
3	022	91 R/S
4		-

Set a flag (let's set flag 2) from the keyboard and press A (no entry is required). Generated numbers which do not contain a 2 in the position preceding the decimal point are briefly displayed. The program then generates another number. When a 2 is found, the number is displayed and program execution stops. To restart the program, simply press A, again

To change the numeral to be tested, press RST (to clear flag 2) and set the flag of your choice, or better still, set several flags as they will all work simultaneously. If you set flags 0, 2, 4, 6, and 8, all even numbers will halt program execution. You can also reverse the logic, as with any conditional transfer, by inserting INV in the program just before the *IFF *IND instruction at location 013. One final note, if the calculator is connected to the PC-100(A) printer, flag 9 cannot be used. When flag 9 is set, the printer is placed in TRACE mode.

PPX-59 PROGRAMMING CORNER

This column is devoted to PPX-59 programming suggestions. If you have a program(s) that you would like to see made available through PPX-59, send your suggestions to PPX. In this way, members who enjoy programming are made aware of your program needs. PPX-59 is not staffed to do custom programming; therefore, member suggested programs will become available only if another member of PPX-59 comes to the rescue.

Our members would like to see:

• A program for least-mean-square best fit logistic forecasting curve of the form $f(x) = \frac{1}{a+bc^{T}}$ to determine a, b, and c coefficients.

CALENDAR PRINT GENERATOR

This program prints calendar months and years from 1581 to 4000 AD. The Master Library Module and PC-100A printer are required for execution. Each month takes from 60 to 75 seconds to be printed. The equations and limitations are shown in the Master Library Manual, ML-20, pages 74-76.

PPX wishes to thank the author of "Calendar Print Generator", Tom P. Douglas, for his excellent program.

USER INSTRUCTIONS:

- 1. Partition to 559.49.
- 2. Enter Program.
- 3. Key in starting month number, press A.
- 4. Key in starting year number, press B.
- 5. Key in number of months to be printed, press C. Steps 3, 4, and 5 may be executed in any order.
- 6. Execute program, press E.

EXAMPLE:

Generate the calendar for the month January 1979.

Enter	Press	Display	Comments
1	A	1.	January month number
1979	В	1979.	Year number
1	C	1.	Number of months to print
	E	0.	Execute program

٠,							
			JF	HH 1	979)	
	8	M	T	W	T	F	S
		1	2	3	4	5	6
	7	8	9	10	11	12	13
	14	15	16	17	18	19	20
	21	22		24	25	26	27
	28	29	30	31			

TI-59 LISTING

000 0 25 CLR 056 0 02 2 112 03 3 168 08 3 224 01 1 280 75 - 366 71 SBR 592 00 0 448 22 INT 504 02 02 101 01 101 01 01 057 05 0 113 01 1 169 05 5 225 05 7 261 022 2 37 40 IND 394 00 0 449 22 INT 504 02 02 101 01 01 01 01 01 01 01 01 01 01 01 01	_	_	-		_	-		-	-	_		_		_		-	_	_			-			_	_	-	_		
000 02 02 050 05 05 5 14 01 1 170 92 FM 1250 92 FM 126 92 14 25 05 95 92 FM 126 92 92 94 01 110 934 00 0 0 450 52 EE 506 10 10 003 03 03 050 92 FM 131 92 FM 126 92 FM 126 92 FM 126 92 94 11 94 10 10 934 00 0 0 450 52 EE 506 10 10 003 03 03 050 92 FM 131 92 FM 126 92 FM 126 92 FM 126 92 94 11 94 10 10 934 00 0 0 450 52 EE 506 10 10 003 03 03 050 92 FM 131 92 FM 126	0000		SLR	056		2	112		31	168		-8	224	0.1	1			- 2		71	GBB 392		0 4	48		THU	504		2
002 02 02 05 05 05 5 114 01 1 170 92 RTH 226 92 RTH 282 85 + 382 69 10 10 994 00 0 450 52 EE 50 61 10 01 03 03 00 05 99 2 RTH 15 92 FTH 717 92 RTH 270 01 0 2 86 16 16 23 99 14 347 06 10 994 00 0 450 52 EE 50 80 11 00 00 00 00 00 02 2 117 03 0 7772 00 0 2 28 16 16 2 24 3 99 14 347 06 10 994 06 6 45 52 EE 50 80 11 00 00 00 00 00 00 00 00 00 11 17 00 0 1 25 00 00 0 12 20 17 00 0 1 25 0 1 25 0 1 25 0	001		CTD			- 10	++0					-			-		55	63								HALL			
003 00 00 060 02 2116 03 07 72 00 0 028 BE BE 284 97 88 93 69 07 95 03 2 451 22 INV 507 65 x 1 005 00 0 0 060 02 2116 03 07 77 20 0 1 1 173 01 1 273 01 1 293 81 851 237 44 507 341 69 DF 396 06 6 452 52 EE 508 01 1 005 00 00 00 00 00 00 00 00 177 01 1 173 01 1 293 81 851 237 44 507 341 69 DF 396 06 6 452 52 EE 508 01 1 005 00 00 00 00 00 00 00 00 00 00 00 00						0	110	01		103						501	24	-		94									
005 00 0 0 060 02 2 116 03 6 772 00 0 1 229 18 18 2 2 17 4 03 3 250 0 0 1 2 20 0 61 00 0 117 01 1 773 0 1 229 18 187 230 4 4 507 516 50 397 69 0 1 9 453 65 5 5 50 50 1 1 0 0 0 0 0 0 0 0 0 0 0 0		ME	94			5	114	01	1			RTH		92		282	85	4-			10 394		0.14			EE			To be
005 00 0 0 060 02 2 116 03 6 772 00 0 1 229 18 18 2 2 17 4 03 3 250 0 0 1 2 20 0 61 00 0 117 01 1 773 0 1 229 18 187 230 4 4 507 516 50 397 69 0 1 9 453 65 5 5 50 50 1 1 0 0 0 0 0 0 0 0 0 0 0 0	003		30	059	92	RIN	115		PYL	171		6	007	tra	I DI		35/	6			DD 295		2 4	5.1		T 8037	507	65 X	
006 02 00 0 05 00 0 0 05 00 0 0 117 01 1 728 01 1 229 81 857 333 44 507 54 05 05 05 05 05 05 05 05 05 05 05 05 05			0			In the s				ALL	132		300	1 2"	1-E3			VEC		MER	45								
0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0			4			6	IIb		100	156/		- 5	228	10		284		MEU	340	102	02 326		. 5. A	DE	DZ				
007 92 2 062 05 6 118 92 2 174 03 3 230 86 STE 285 12 12 25 55 50 589 04 04 154 87 1FF 510 22 1NV 007 92 FTN 053 92 FTN 153 92 FTN 1	005		0			-0	117				0.1	- 4			DOT	385	44	SUM		60	TD 397	49	FIP 4	58	65	×	509		
009 00 0 0 064 02 2 124 04 04 7 76 055 5 25 25 37 6 10 1 20 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	006						++0		-31	+-7.4	00	- 4		15.5	(C)	0.000		4.0	271		half to				65	100			17
009 00 0 0 0 0 0 0 0 0 0 0 0 1 2 0 0 0 1 2 0 0 0 0						- 77	148			119					SIF			14	342	110	100 070					ALC:	210		
009 00 0 064 02 2 120 09 0 121 00 0 0 172 00 0 173 00 0 175 05 176 00 00 172 0 2 EE 009 00 0 0 065 00 0 121 0 0 0 177 0 0 172 0 1 1 178 02 2 234 71 586 29 0 2 0 2345 56 PCH 401 69 DF 457 30 30 31 32 21 NV 010 03 3 066 07 7 7 122 01 1 178 02 2 234 71 586 290 64 64346 20 20 00 00 458 04 4 514 52 EE 011 92 71 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	UUY	3.5	KIN	063		RIN	1198	93	北西	175	自体	- 4	231	AR.	FIRE	287	-94	BSZ			RP1 389	11.69	-DP 14			85			GI
000 00 00 00 00 00 00 00 00 00 00 00 00	008		13	064		-0	1.000			106	1775	-	383.	100		300	hol	4.6					neld	50	no.	On	512	50 FF	
011 92 RTN 067 92 RTN 127 96 RTN 127 96 ST 233 04 04 93 54 SP 20 84 84 84 26 20 40 40 20 90 80 858 04 4 914 52 EE 1011 92 RTN 1067 92 PTN 1067 92 PTN 1067 92 PTN						-	-	S. W.	- FA	STATE I	ABAG!			THE PARTY	DATE:	SHE		- E E								22			
011 92 RTH 067 92 RTH 123 92 RTH 129 05 5 235 04 04 291 01 1 247 71, SER 463 01 1 459 44 SUM 515 85 + 1012 00 0 0 066 01 1 125 00 0 181 01 4 237 36 PGM 293 32 X1T 343 77 77 405 04 04 461 43 RCL 517 71 SER 463 01 0 0 069 01 1 125 00 0 181 01 4 237 36 PGM 293 32 X1T 343 77 77 405 04 04 461 43 RCL 517 71 SER 463 01 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			9	U63		E I	121			177	32	KIN			87	288	NA.		345		PEM 401		A	200		30			Y
011 92 8TH 067 92 RTN 123 92 8TN 179 05 5 235 04 04 291 01 1 347 71, SER 403 01 1 459 44 SUP 515 85 + 012 00 0 0 060 02 2 124 04 4 180 04 4 236 53 33 292 03 3 388 01 01 104 67 E0 480 11 11316 02 2 013 00 0 069 01 1 125 00 0 181 01 4 237 36 PON 293 32 XIT 349 77 77 1456 04 04 461 43 RCL 517 71 SER 1014 004 4 070 00 126 02 2 182 03 3 289 20 20 20 24 43 RCL 450 32 XIT 346 07 77 7465 06 518 04 04 015 00 0 0 072 02 2 128 71 8183 01 1 299 11 8 1 299 14 38 RCL 450 32 XIT 346 07 14 74 462 06 06 518 04 04 015 00 0 0 072 02 2 128 76 181 184 92 RTN 240 14 4 296 04 25 80 352 08 05 400 67 E0 464 43 RCL 520 95 = 017 00 0 0 0 072 01 1 1299 11 8 165 02 2 241 42 870 297 10 10 333 75 - 409 40 4465 11 11321 69 UP 017 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	019		3 3			7				178		2	234	71			64	Ed	248		201402		80 4		04	4	514		
012 00 0 0 068 02 2 124 03 4 190 04 4 256 23 32 292 03 3 248 01 1 144 57 E0 450 11 11 216 02 2 113 00 0 0 059 01 1 125 00 0 181 01 1 292 36 PMP 293 32 XIT 946 77 77 1465 04 04 441 38 14 1517 71 SER 014 04 4 070 00 0 126 02 2 182 03 3 238 20 20 294 43 FCL 550 32 XIT 1466 74 74 462 06 05 518 04 04 1015 92 RIN 071 92 RIN 127 92 RIN 181 01 1 239 11 R 195 07 07351 43 PCL 1407 02 2 463 32 XIT 1519 48 48 48 1016 00 0 072 02 2 128 75 LBL 184 92 RIN 140 04 4 296 42 810 352 05 05 406 67 E0 464 43 RCL 520 95 = 017 00 0 0 073 01 1 129 11 R 195 02 2 241 42 STD 197 10 10 353 78 - 409 04 04 465 11 11 221 69 DP 019 05 5 074 01 1 120 42 STD 186 05 5 342 06 06 298 69 DP 354 48 E0X 410 79 79 466 22 INV 522 03 03 19 92 RIN 181 07 07 187 04 4 243 22 INV 299 27 27 375 04 04 411 03 3 467 77 65 23 06 6 020 00 0 077 02 2 122 29 RTN 188 01 1 244 86 STF 300 43 RCL 355 95 = 442 67 E0 468 04 04 524 71 SER 021 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1111	90	DTH	me >		DEN	1000			1 6			20-	0.4		001										CLIM			
014 04 4 070 00 0 125 00 0 181 01 1 25 00 0 181 01 1 237 36 PDM 293 32 KIT 448 77 77 20 85 04 04 446 20 66 518 04 04 01 19 22 RTW 1071 92 RTW 127 92 RTW 132 03 3 28 20 30 2 294 43 RTW 150 32 KIT 406 74 4462 06 65 18 04 04 01 01 19 29 RTW 127 92 RTW 127						1.212.21	150			167					-04	271		- the		FI		U.L						30	
014 04 4 070 00 0 126 02 2 132 03 2 33 20 20 20 494 43 EL 550 32 X11 408 74 74 462 06 66 518 04 84 015 92 FTW 071 92 FTW	1112		- 4			2	124	04	4		04	4	236	33		292		3	348		81 404		EQ14	80	14	11		02 2	
014 04 4 070 00 0 126 02 2 132 03 2 33 20 20 20 494 43 EL 550 32 X11 408 74 74 462 06 66 518 04 84 015 92 FTW 071 92 FTW	013		0	069		154	105			101	0.5		207	52	DOM		22	717	0.40		22 465	Fed:	mala			PPL	517		0
015 92 RTN 071 92 RTN 127 92 RTN 128 01 1 299 11 8 295 07 07 07 128 49 RDL 407 02 2 483 38 MTT 519 48 48 60 106 00 0 072 02 2 128 76 LEL 184 92 RTN 247 04 4 296 42 8TD 529 05 50 406 67 EQ 444 43 RCL 520 95 = 017 07 00 0 073 01 1 129 11 R 195 02 2 241 42 STD 297 10 10 583 75 - 409 04 04 445 11 11 521 69 DP 018 05 5 074 01 1 120 42 STD 186 05 5 242 06 66 298 89 10 9 534 48 EM 2410 79 79 486 22 LNV 529 09 019 92 RTN 1075 92 RTN 111 07 07 187 04 4 249 22 LNV 529 27 27 355 04 04 411 03 3 447 77 GE 523 66 6 020 00 0 076 02 1 129 92 RTN 1189 01 1 244 86 STP 500 43 87 12 136 149 02 40 4449 72 72 525 04 04 022 06 6 6 076 02 2 134 12 B 190 07 7 248 87 187 190 24 27 190 58 6 95 412 67 EQ 444 97 77 GE 523 66 6 020 00 0 076 01 1 133 76 LBL 189 02 2 245 05 05 05 301 07 07 057 49 PRD 413 04 04449 72 72 525 04 04 022 06 6 6 076 02 2 134 12 B 190 07 7 248 87 187 190 22 2 149 190 58 66 54 144 96 86 6470 86 STF 526 48 49 023 92 RTN 1079 92 RTN 135 42 STD 191 92 RTN 347 02 02 304 37 66 146 86 6470 86 STF 526 48 49 023 92 RTN 1079 92 RTN 135 42 STD 191 92 RTN 347 02 02 304 37 66 146 86 147 04 4 471 05 05 527 85 + 024 00 0 0 00 0 33 136 08 06 182 01 1 139 92 LRTN 149 02 02 304 03 540 66 6 166 6 76 EQ 444 04 04 04 04 04 04 04 04 04 04 04 04				000		-	1			7/25	7.5	2						24		100						100	=		
017 00 0 0 072 02 2 128 76 LPL 184 92 PTM 247 04 4 296 10 257 10 252 05 05 408 67 EQ 464 43 RCL 520 95 = 017 00 0 0 073 01 1 129 11 PL 195 02 2 244 42 STD 297 10 10 353 75 409 04 04 465 11 11 51 69 DP 018 05 5 074 01 1 120 42 STD 186 05 5 242 06 06 298 69 DP 354 48 EXC 410 79 79 466 22 LW 522 03 69 019 92 RTN 1075 92 RTN 11 10 70 07 11 10 70 42 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 10 11 10 70 11 10 10 10 10 10 10 10 10 10 10 10 10						0	120								20		40	KFF								Ub			
017 00 0 0 072 02 2 128 76 LPL 184 92 PTM 247 04 4 296 10 257 10 252 05 05 408 67 EQ 464 43 RCL 520 95 = 017 00 0 0 073 01 1 129 11 PL 195 02 2 244 42 STD 297 10 10 353 75 409 04 04 465 11 11 51 69 DP 018 05 5 074 01 1 120 42 STD 186 05 5 242 06 06 298 69 DP 354 48 EXC 410 79 79 466 22 LW 522 03 69 019 92 RTN 1075 92 RTN 11 10 70 07 11 10 70 42 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 11 10 70 10 11 10 70 11 10 10 10 10 10 10 10 10 10 10 10 10	015	32	KIN		92	POT IN	123	198	RIN	188	01	530	239	14	B			07	351		ROL 407		2 4			SITE	519	48 48	8
017 00 0 073 01 1 129 11 8 185 02 2 244 42 8TD 297 10 10 333 78 409 04 04 465 11 11 521 69 DF 018 05 5 074 01 1 130 42 8TD 186 05 5 242 06 06 298 69 334 48 EXC 410 79 79 466 22 INV 522 03 09 019 32 RTM 075 92 RTM 131 07 07 187 04 4 243 22 INV 299 27 27 385 04 04 411 03 3 467 77 GE 523 06 6 20 00 0 076 02 2 132 92 RTM 198 01 1 244 86 87 200 18 70 18 50 2 40 44 411 03 3 467 77 GE 523 06 6 20 00 0 077 01 1 133 76 LBL 189 01 244 86 87 200 18 70 18 50 18 50 9 412 67 E0 486 04 04 524 71 8RR 021 00 0 077 01 1 133 76 LBL 189 02 2 245 05 05 801 07 07 387 49 PED 413 04 04 467 72 72 525 04 04 41 022 05 6 678 02 2 134 12 B 190 07 7 246 87 18F 202 22 INV 289 06 66 414 86 8470 86 STF 526 84 48 023 92 RTM 079 92 RTM 135 42 STD 191 92 RTM 247 02 02 030 77 66 SSF 03 84 15 04 4 471 05 05 527 85 + 0 0 0 0 00 0 0 00 0 0 137 92 RTM 193 03 9 249 91 91 905 14 4 381 00 0 417 04 04 473 11 11 529 71 SBR 026 07 7 002 01 1 138 76 LBL 194 04 4 250 86 STF 306 2 INV 389 06 8 4 15 67 E0 473 11 11 529 71 SBR 026 07 7 002 01 1 138 76 LBL 194 04 4 250 86 STF 306 2 INV 389 06 0 4 149 19 1474 06 6 550 04 04 027 92 RTM 083 92 RTM 139 13 C 195 01 1 251 02 02 307 86 STF 306 2 00 0 415 05 5 475 71 SBR 531 48 48 08 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0			0			3						DIA										4.7				POL	500		
019 05 5 074 01 1 130 42 STD 186 05 5 242 06 06 05 98 69 DP 334 48 ESC 410 79 78 466 22 INV 522 03 09 019 92 RTN 075 92 RTN 131 07 07.187 04 4 249 22 INV 299 27 27 355 04 04 41 10 3 3 467 77 CE 533 06 6 020 00 0 076 02 2 132 92 RTN 188 01 1 244 96 STF 300 45 RCL 365 95 = 412 67 E0 468 04 04 524 71 SRR 021 00 0 077 01 1 133 76 LBL 189 02 2 245 05 05 301 07 07 357 49 RDL 143 04 04 469 72 72 525 04 04 022 06 6 078 02 2 133 12 8 190 07 7 246 87 IFF 302 22 INV 398 49 RDL 143 04 04 469 72 72 525 04 04 022 06 6 078 02 2 133 12 8 190 07 7 246 87 IFF 302 22 INV 398 49 RDL 143 04 04 469 72 72 525 04 04 02 20 20 15 134 12 8 190 07 7 246 87 IFF 302 22 INV 398 49 RDL 143 04 04 469 72 72 525 04 04 02 02 30 3 135 08 06 192 01 1 249 02 02 303 07 06 6 1414 86 86 470 86 STF 526 48 49 10 10 10 10 10 10 10 10 10 10 10 10 10		100,00	- 7	070		1																0.0				The same	HAV		
019 92 RTM 075 92 RTM 121 07 07 187 04 4 243 22 1W 299 27 27 285 04 04 411 03 3 467 77 05 23 06 6 020 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0						+				185			241	42	210	291	110	18			- 409	U4	134 4	60	The .	-11		69 BF	
019 92 RTM 075 92 RTM 121 07 07 187 04 4 243 22 1W 299 27 27 285 04 04 411 03 3 467 77 05 23 06 6 020 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0	018		5	074	01	1	138	42	SIL	186	05		249	136	06	293	69	DP.	353		FSC 410	79	793			INV			3
021 00 0 0 076 02 2 132 92 RTN 138 61 1 244 96 STF 300 43 REL 585 95 = 412 ST E0 468 04 54 71 SER 021 00 0 077 01 1 133 76 LBL 139 02 2 245 05 05 05 05 07 07 357 49 PRD413 04 04 489 72 72 355 04 04 04 022 06 6 078 02 2 134 12 B 190 07 7 246 87 IFF 302 22 INV 358 06 06 414 86 86 470 86 STF 356 48 49 024 00 0 00 03 3 136 06 08 192 01 1 249 02 02 030 37 68 515 036 6 6 414 86 86 470 86 STF 356 48 49 024 00 0 00 03 3 136 06 08 192 01 1 249 02 02 030 37 68 515 00 0 417 04 04 473 11 11 529 71 SER 022 02 030 00 0 0 0 0 0 0 0 0 0 0 0 0 0		90				DTH				105							-	0-							77	CE	500		-
021 00 0 0 077 01 1 133 76 LB1 199 02 2 245 05 05 301 07 07 357 49 PPD 413 04 04 449 72 72 72 525 04 94 022 06 6 078 02 2134 12 B 190 07 7 246 87 1FF 302 22 1HV 358 06 06144 86 86 470 86 3FF 526 68 48 023 92 RTM 079 92 RTM 135 42 STD 191 92 RTM 447 02 02 303 77 8EB 259 03 3 415 04 4 471 05 05 927 85 + 024 00 0 080 03 3 135 09 08 192 011 1 249 02 02 303 77 8EB 259 03 3 415 04 4 471 05 05 927 85 + 024 00 0 080 03 3 135 09 08 192 011 1 249 02 02 303 77 8EB 259 03 3 415 04 4 471 05 05 927 85 + 024 28 33 32 04 528 30 0 0 02 50 00 0 03 03 03 03 03 03 03 03 03 03 04 18 67 10 11 11 11 11 11 11 11 11 11 11 11 11						10 113	101	146		101		-					A.	46							100	25	323		
021 00 0 077 01 1 133 76 LBL 189 02 2 245 05 05 301 07 07 357 49 PRD 413 04 04 469 72 72 525 04 04 022 06 6 076 02 2134 12 B 190 07 7 246 87 1FF 302 22 18V 358 06 06 144 86 86 470 86 87F 356 68 48 9 023 92 RTM 079 92 RTM 135 42 STD 191 92 RTM 247 02 02 303 77 6E3 59 03 3 415 04 4 471 05 05 927 85 + 024 00 0 0 80 0 0 3 3 136 00 05 192 01 1 249 02 03 204 03 03 360 06 6 416 67 7 60 472 31 11 11 529 71 58R 025 00 0 0 81 00 0 137 92 RTM 139 03 3 249 91 91 90 55 14 14 361 00 0 417 04 04 473 11 11 529 71 58R 026 77 7 082 01 1 138 76 LBL 194 04 4 250 86 2FF 306 02 1 M 89 19 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			9	U.76		12	132	32	RIM			4	244	86			43	ROL			= 412		EG	68	04	04	524	71 38	K
022 06 6 076 02 2 134 12 8 190 07 7 246 87 1F 302 22 114 35 06 051414 86 86 470 86 STF 526 48 49 023 97 RTH 077 92 92 RTH 077 92 RTH 077 92 PTH	021	0.0	0			1		76		189			245			301	07	07	057	40	PP0 410	na	fid d	63	72	72	525	04 0	4
023 92 RTN 079 92 RTN 195 42 STD 191 92 RTN 247 02 02 303 77 65 359 03 2 15 04 4 271 05 05 527 85 + 1024 00 0 020 03 3 136 08 06 192 01 1 148 02 02 304 03 03 360 06 6 416 67 EQ 472 83 004 1228 00 0 0 025 00 0 031 00 0 137 92 RTN 193 03 3 249 91 91 90 5 14 14361 00 0 417 04 04473 11 11 529 71 SBR 026 07 7 082 01 1 138 76 ED 194 04 4 250 86 STF 306 22 FW 362 00 0 418 91 91 474 06 6 530 04 04 02 02 92 RTN 193 92 RTN 193 13 C 195 01 1 251 02 02 307 86 STF 368 00 0 419 05 5 475 71 SBR 531 48 48 023 00 0 0 084 03 3 140 42 STD 196 02 2 252 42 STD 308 02 02 364 00 0 419 05 5 475 71 SBR 531 48 48 029 01 1 085 00 0 141 09 09 197 02 2 253 02 02 309 01 1 365 03 3 421 05 5 5475 71 SBR 533 69 DP 030 00 0 096 02 2 142 92 RTN 193 92 RTN 193 92 RTN 254 71 SBR 310 42 STD 366 00 0 422 16 16478 85 + 534 04 04 192 PZ RTN 193 79 RTN 143 02 2 199 03 3 255 04 04 31 07 07 07 67 69 DP 423 06 6 8 479 00 0 535 69 DP 032 00 0 088 03 3 144 05 5 200 06 6 256 40 40 312 69 DP 366 01 01 424 67 EQ 480 71 SBR 536 05 05 03 01 1 090 00 0 145 01 1 201 01 1 257 42 STD 313 28 28 569 03 3 425 05 50 54 81 04 04 397 22 RTN 193 92 RTN 147 03 3 203 03 3 250 04 04 31 07 07 07 67 69 DP 423 06 6 8 479 00 0 535 69 DP 032 00 0 0 03 03 146 03 3 203 03 3 250 04 04 31 07 07 07 07 07 026 23 23 3482 48 48 538 87 FF 035 04 04 01 1 090 03 3 146 03 3 203 03 3 250 04 04 31 07 07 07 07 026 23 23 3482 48 48 538 87 FF 035 04 04 04 07 07 07 07 07 07 07 07 07 07 07 07 07	000		2	070	00	10	400	-								100		+ 4211								- TE			
024 00 0 080 03 3 135 08 08192 01 1 248 02 0 304 03 0 366 6 418 67 ED 472 83 CD 525 00 0 C 25 00 0 081 00 0 137 92 RTN 193 03 3 249 91 91 305 14 4 861 00 0 417 04 04473 11 11529 71 SBR 026 07 7 082 01 1 138 76 LBL 194 04 4 250 86 STF 366 22 INV 852 00 0 418 91 91474 06 6 530 04 04 02 92 RTN 033 92 RTN 189 13 C 195 01 1 251 02 02 307 86 STF 363 00 0 419 05 5 475 71 SBR 531 48 48 08 00 0 084 03 3 140 42 STD 196 02 2 252 42 STD 308 02 02 344 00 0 420 67 ED 476 04 04 532 95 = 029 01 1 085 00 0 141 09 09197 02 2 253 02 02 309 01 1 365 03 3 421 05 05477 48 48 533 69 EP 030 00 0 0 00 0 08 02 2 142 92 RTN 198 92 RTN 257 71 SBR 251 48 48 153 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0			-E.												144	302	66	THY								2017			
024 00 0 080 03 3 136 08 08192 01 1 248 02 02 304 03 03 50 06 6 416 67 ED 472 83 GD=528 00 0 05 05 00 1081 00 0 137 92 RTN 193 03 249 91 91 91 414 361 00 0 447 04 04 473 11 11529 71 SBR 026 07 7 082 01 1 138 76 LBL 194 04 4 250 86 STF 306 22 HW 862 00 0 448 91 91 444 06 6 530 04 04 02 92 RTN 1083 92 RTN 129 13 C 195 01 1 251 02 02 307 86 STF 363 00 0 448 91 91 444 06 6 530 04 04 02 92 07 92 RTN 1083 92 RTN 129 13 C 195 01 1 251 02 02 307 86 STF 363 00 0 449 05 5 475 71 SBR 348 48 028 00 0 084 03 3 140 42 STD 196 02 2 252 42 STD 308 02 0 264 00 0 420 67 ED 476 04 04 532 95 = 009 01 1 065 00 0 141 09 09197 02 2 253 02 02 309 01 1 365 03 3 421 05 05477 48 48 533 69 DP 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		92	KIN	079	92	RIN		42		191		RIN	247				77		359		3 415		4 4			05		85 +	5
025 00 0 081 00 0 137 32 RTM193 03 3 249 91 91 965 44 1 861 00 0 417 04 0 473 11 11559 71 SBR 025 07 7 082 01 1 138 76 LBL 194 04 4 250 86 STF 306 22 INV 882 80 0 418 91 91474 06 6 530 04 04 02 92 RTM 083 92 RTM 199 13 C 195 01 1 251 02 02 307 86 STF 363 00 0 419 05 5 475 71 SBR 531 48 48 028 00 0 141 09 09 197 02 2 253 02 02 03 97 86 STF 363 00 0 419 05 5 475 71 SBR 531 48 48 029 01 1 085 00 0 141 09 09 197 02 2 253 02 02 03 09 01 1 365 03 3 421 05 05 477 48 49 533 69 DP 030 00 0 086 02 2 142 92 RTM 198 92 RTM 254 71 SBR 310 42 STD 366 00 0 422 16 16 478 85 + 534 04 09 09 00 086 02 2 142 92 RTM 198 92 RTM 254 71 SBR 310 42 STD 366 00 0 422 16 16 478 85 + 534 04 09 02 07 0 0 086 02 2 142 92 RTM 198 92 RTM 254 71 SBR 310 42 STD 366 00 0 422 16 16 478 85 + 534 04 09 02 07 0 0 088 03 3 144 05 5 200 06 6 256 40 40 311 07 07 327 69 DP 420 06 6 479 00 0 525 69 DP 038 01 1 089 00 0 145 01 1 201 01 1 257 42 STD 313 26 28 369 03 3 425 05 05 481 04 04 537 22 INV 034 01 1 090 03 3 144 05 5 200 06 6 256 40 40 312 26 28 369 03 3 425 05 05 481 04 04 537 22 INV 034 01 1 090 03 3 144 09 3 202 07 7 258 00 00 314 71 SBR 370 07 7 428 23 33 442 48 48 533 87 IFF 035 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	024		0			3	126				CET				00	2014		0.2			416		- 50 4			on-	500	00 0	
026 07 7 082 01 1 38 76 EB 194 04 4 250 86 STF 306 22 INV 862 00 0 448 91 91 474 06 6 50 00 464 02 92 RTM 083 92 RTM 139 13 E 195 01 1 251 02 02 307 36 STF 306 00 0 419 05 5 475 71 88F 531 48 48 028 00 0 084 03 3 140 42 STB 196 02 2 253 42 STB 308 02 02 384 00 0 420 67 ED476 04 04 525 5 = 0.09 01 1 085 00 0 141 09 09 197 02 2 253 02 02 309 01 1 385 03 3 421 05 05477 48 48 553 69 DP 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 CONS. 125		18			-	100			0.00	W. L				0.0		100	- 00							77				10
028 00 0 084 03 3 140 42 STB 196 02 2 252 42 STB 308 02 02 397 86 STF 363 00 0 1419 05 5 1475 71 SBF 31 48 48 029 01 1 085 00 0 141 09 09 197 02 2 252 42 STB 308 02 02 396 00 0 420 67 E01476 04 04 532 95 95 00 00 00 0 086 02 2 142 92 RTH 198 92 RTH 254 71 SBF 310 42 STB 366 00 0 422 16 16 1478 85 + 534 04 04 031 92 RTH 198 92 RTH 198 92 RTH 254 71 SBF 310 42 STB 366 00 0 422 16 16 1478 85 + 534 04 04 031 92 RTH 198 92 RTH 198 92 RTH 254 71 SBF 310 42 STB 366 00 0 422 16 16 1478 85 + 534 04 04 031 92 RTH 198 90 0 0 145 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 099 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 03 01 1 099 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 03 01 1 090 03 3 146 03 3 202 07 7 258 00 00 314 71 SBF 370 07 7 426 23 23 482 48 48 538 87 FF 035 02 SF RTH 091 92 RTH 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 05 05 05 05 05 05 05 05 05 05 05			2		H.W.	100	121						24%						361										
028 00 0 084 03 3 140 42 STB 196 02 2 252 42 STB 308 02 02 397 86 STF 363 00 0 1419 05 5 1475 71 SBF 31 48 48 029 01 1 085 00 0 141 09 09 197 02 2 252 42 STB 308 02 02 396 00 0 420 67 E01476 04 04 532 95 95 00 00 00 0 086 02 2 142 92 RTH 198 92 RTH 254 71 SBF 310 42 STB 366 00 0 422 16 16 1478 85 + 534 04 04 031 92 RTH 198 92 RTH 198 92 RTH 254 71 SBF 310 42 STB 366 00 0 422 16 16 1478 85 + 534 04 04 031 92 RTH 198 92 RTH 198 92 RTH 254 71 SBF 310 42 STB 366 00 0 422 16 16 1478 85 + 534 04 04 031 92 RTH 198 90 0 0 145 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 01 1 099 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 03 01 1 099 00 0 145 01 1 201 01 1 257 42 STB 313 28 28 366 01 01 424 67 E01480 71 SBF 536 05 05 03 03 01 1 090 03 3 146 03 3 202 07 7 258 00 00 314 71 SBF 370 07 7 426 23 23 482 48 48 538 87 FF 035 02 SF RTH 091 92 RTH 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 05 05 05 05 05 05 05 05 05 05 05					01	1	138	76		194	04	4	250	86	STE	306	22	FHY			0 418	91	9119	74		6		94 10	9
028 09 0 084 03 3 140 42 STD 196 02 2 252 42 STD 308 02 02 364 00 0 420 67 E0 476 04 04 94 932 95 = 029 01 1 085 00 0 141 09 09197 02 2 253 02 02 09 01 1 365 03 3 421 05 05 477 48 49 533 69 DP 030 00 0 086 02 2 142 92 RTN 198 92 RTN 155 71 SBR 310 42 STD 366 00 0 422 16 16 478 85 + 534 04 09 03 1 92 RTN 198 92 RTN 189 92 RTN 1854 71 SBR 310 42 STD 366 00 0 422 16 16 478 85 + 534 04 09 03 1 92 RTN 187 92 RTN 147 02 2 199 03 3 255 04 04 311 07 07 367 69 DP 423 06 6 479 00 0 535 69 DP 032 00 0 0 088 03 3 144 05 5 200 06 6 256 40 40 312 69 DP 368 01 01 424 67 E0 480 71 SBR 936 05 05 05 033 01 1 089 00 0 145 01 1 201 01 1 257 42 STD 313 28 28 369 03 3 425 05 05 481 04 04 597 22 INV 034 01 1 090 03 3 146 03 3 202 07 7 258 00 00 315 70 40 4371 00 0 427 00 0 483 95 = 539 05 05 05 05 05 05 05 05 05 05 05 05 05	027		RTN		92	RIN	139	12		195	01		251			207		STE			0 419		15 14			SEP		48 4	8
029 01 1 085 00 0 141 09 09 197 02 2 253 02 02 309 01 1 365 03 3 421 05 05 477 48 48 533 69 UP 030 00 0 086 02 2 142 92 RTN 198 92 RTN 254 71 SBR 310 42 STD 366 00 0 422 16 16 478 95 75 534 04 04 04 05 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 088 00 0 085 00 0 088 00 0 088 00 0 088 00 0 088 00 0 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 08 00 0 0 08 00 0 0 08 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					00	-		4.4										学校员			7	1000	10000111						5
030 00 0 086 02 2 142 92 RTN 198 92 RTN 254 71 SBR 310 42 STD 366 00 0 422 16 16 478 85 + 534 04 04 031 92 RTN 087 92 RTN 143 02 2 199 03 3 255 04 04 4 311 07 07 367 69 UP 423 06 6 479 00 0 535 69 UP 633 00 0 088 03 3 144 05 5 200 06 6 256 40 40 312 69 UP 368 01 01424 67 E0 490 71 SBR 536 05 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STD 313 28 28 389 03 3 425 05 05 481 04 04 537 22 HV 034 01 1 1090 03 3 146 03 3 202 07 7 258 00 0 0 314 71 SBR 5370 07 7 426 23 23 482 48 48 538 27 FF 035 92 RTN 091 92 RTN 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 05 05 05 05 05 05 05 05 05 05 05						3		46						42					354		0 420							-	
030 00 0 086 02 2 142 92 RTM 198 92 RTM 254 71 SBR 310 42 STD 366 00 0 422 16 16 478 85 + 534 04 04 03 3 2 RTM 087 92 RTM 143 02 2 199 03 3 255 04 04 311 07 07 367 69 0P 423 06 6 475 00 0 535 69 0P 032 00 0 088 03 3 144 05 5 200 06 6 255 40 40 312 69 0P 366 01 01 424 67 Eq. 480 71 8BR 536 05 05 03 01 1 089 00 0 145 01 1 201 01 1 257 42 STD 313 28 28 369 03 3 425 05 05 481 04 04 557 22 INV 034 01 1 109 03 3 146 03 3 202 07 7 258 00 00 314 71 SBR 970 07 7 426 23 23 482 48 48 538 87 IFF 035 92 RTM 091 92 RTM 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 036 00 0 092 03 3 148 01 1 204 03 3 260 42 STD 316 33 33 372 00 0 428 67 Eq. 484 69 0P 540 04 04 037 1 093 00 0 149 92 RTM 147 05 92 RTM 255 92 RTM 261 12 12 317 36 PGM 373 00 0 429 05 05 485 01 01 547 74 40 03 02 2 206 03 3 262 07 7 318 20 20 374 00 0 430 28 28 486 04 4 542 98 RDV 039 92 RTM 095 92 RTM 151 01 1 207 02 2 266 32 XIT 319 12 B 375 69 0P 431 35 1/X 487 71 SBR 543 97 B32 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 300 42 STD 376 02 02 422 92 RTM 488 04 04 544 09 09 04 04 02 2 096 03 3 152 01 1 208 01 1 264 01 1 300 42 STD 376 02 02 422 92 RTM 488 04 04 544 09 09 04 04 00 00 097 00 0 153 07 7 209 05 5 265 00 0 321 11 1377 04 4 433 65 X 489 48 48 545 02 02 04 01 1 098 05 5 154 01 1 1 10 03 3 266 09 RD 32 07 7 378 03 3 439 00 0 435 00 0 491 02 2 5547 00 0 0 045 00 0 155 07 7 209 05 5 265 00 0 321 11 11377 04 4 433 65 X 489 48 48 545 02 02 04 01 1 098 05 5 154 01 1 208 01 1 268 01 1 268 01 1 380 00 0 435 00 0 491 02 2 5547 00 0 0 045 00 0 100 0 0 157 03 3 213 03 3 269 49 PRD 322 07 7 378 03 3 439 00 0 435 00 0 491 02 2 5547 00 0 0 045 00 0 101 00 0 157 03 3 213 03 3 269 00 0 323 49 PRD 339 00 0 435 00 0 491 02 2 5547 00 0 0 045 00 0 101 00 0 157 03 3 213 03 3 269 00 0 0 323 49 PRD 339 00 0 438 01 1 494 04 04 04 550 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 00 0 0 328 44 SUB 338 00 0 442 55 498 01 01 050 00 0 440 00 00 00 00 00 00 00 00 00 00	029	u	31			0	141	109		497				-82			04	11	365		3 421		0.0514		48	48	533	69 DP	3
031 92 RTM 087 92 RTM 143 02 2 199 03 3 255 04 04 311 07 07 867 69 GP 423 06 6 475 00 0 535 69 GP 032 00 0 088 03 3 144 05 5 200 06 6 256 40 40 312 69 GP 368 01 01 424 67 E0 480 71 SBR 536 05 05 033 01 1 089 00 0 145 01 1 201 01 1 257 42 STD 313 28 28 389 03 3 425 05 05 481 04 04 537 22 INV 034 01 1 090 03 3 146 03 3 202 07 7 258 00 00 314 71 SBR 370 07 7 426 23 23 482 48 48 538 87 IFF 035 92 RTM 091 92 RTM 147 03 2 53 03 3 253 00 0 314 71 SBR 370 07 7 426 23 23 482 48 48 538 87 IFF 035 92 RTM 091 92 RTM 147 03 2 53 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 036 00 0 092 03 3 148 01 1 204 03 3 260 42 STD 316 33 3322 00 0 427 00 0 483 95 = 539 05 05 036 00 0 092 03 3 148 01 1 204 03 3 260 42 STD 316 33 3322 00 0 427 00 0 427 00 0 483 95 = 539 05 05 037 01 1 093 00 0 149 92 RTM 205 92 RTM 261 12 12 317 36 PGM 373 00 0 429 05 05 485 01 01 541 74 74 038 02 2 094 04 4 150 02 2 206 03 3 262 07 7 318 20 20 374 00 0 429 05 05 485 01 01 541 74 74 038 02 2 094 04 4 150 02 2 206 03 3 262 07 7 318 20 20 374 00 0 429 05 05 485 01 01 541 74 74 039 92 RTM 095 92 RTM 151 01 1 207 02 2 263 32 XIT 319 12 B 375 69 DP 431 35 1/487 71 SBR 543 97 BSZ 044 00 0 2 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STD 376 02 02 432 92 RTM 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 0 321 11 1377 04 4 433 65 × 489 48 48 545 02 02 04 04 00 0 097 00 0 153 07 7 209 05 5 265 00 0 0 321 11 1377 04 4 433 65 × 489 48 48 545 02 02 04 04 00 0 0 097 00 0 153 07 7 209 05 5 265 00 0 0 321 11 1377 04 4 433 65 × 489 48 48 545 02 02 04 04 00 0 0 00 0 0 0 0 0 0 0 0 0	930		0 1			2	142	92	PTIN			DIM	ORA				40	STI	500			16	16.4	78	85	+	534	04 A	4
032 00 0 0 888 03 3 144 05 5 200 06 6 256 40 40 312 69 0P 368 01 01 424 67 EQ 480 71 88R 536 05 05 034 01 1 989 00 0 145 01 1 201 01 1 257 42 870 313 28 28 369 03 3 425 05 05 481 04 04 537 22 1NV 034 01 1 900 03 3 146 03 3 202 07 7 258 00 00 314 71 88R 370 07 7 426 23 23 482 48 485 38 87 1FF 035 92 RTN 091 92 RTN 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 05 036 00 0 032 03 3 148 01 1 204 03 3 260 40 2 870 316 33 33 372 00 0 428 67 EQ 484 69 0P 540 04 04 037 01 1 093 00 0 149 92 RTN 205 92 RTN 261 12 12 317 36 PGM 373 00 0 429 05 05 485 01 01541 74 74 038 02 2 994 04 4 150 02 2 206 03 3 262 07 7 318 20 20 374 00 0 429 05 05 485 01 01541 74 74 038 02 2 995 03 3 152 01 1 208 01 1 264 01 1 320 42 870 376 69 0P 431 35 1/2/487 71 887 43 97 082 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 870 376 02 02 432 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 266 00 0 321 11 1377 04 4 439 65 8 489 48 48 545 02 02 042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 0 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 03 32 32 41 10 1380 00 0 435 00 0 491 02 2 547 00 0 0 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 03 32 32 07 1 381 00 0 0 435 00 0 491 02 2 547 00 0 0 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 0 435 00 0 491 02 2 547 00 0 0 047 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 0 485 01 1 494 04 04 550 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 270 00 0 328 44 801 384 07 7 440 43 RCL 496 95 4 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 448 01 1 499 59 INT 050 00 3 3 164 01 1 200 01 1 276 00 00 33 24 48 00 00 344 22 10 1 499 09 10 10 00 157 03 3 213 03 217 06 6 277 77 0E 333 12 12 389 00 2 445 28 LDG502 148 VBM		0.5	DTE	007	13.0	STO			150	122			A			011											E 7 E		
033 01 1 089 00 0 145 01 1 201 01 1 287 42 STD 813 28 28 369 03 3 425 05 05 481 04 04 597 22 INV 084 01 1 090 03 3 146 03 3 202 07 7 258 00 00 314 71 SBR 370 07 7 426 23 23 482 48 48 538 87 IFF 035 92 RTN 091 92 RTN 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 439 95 = 539 05 05 036 00 0 092 03 3 148 01 1 204 03 3 260 42 STD 316 33 33 372 00 0 428 67 EQ 484 69 DP 540 04 04 03 70 1 1 093 00 0 149 92 RTN 205 92 RTN 20										132						211		11.6		6.3			100000000000000000000000000000000000000				0.22		
034 01 1 090 03 3 146 03 3 202 07 7 258 00 00 314 71 SBR 370 07 7 426 23 23 482 48 48 538 87 IFF 035 92 RTN 091 92 RTN 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 05 05 00 0 0 0 0 0 0 0 0 0 0 0 0			The second		03-	3	144					-6	256	40	40		69	TIP.			01 424	67	EQ 4			SBR	536		5
034 01 1 090 03 3 146 03 3 202 07 7 258 00 00 314 71 SBR 370 07 7 426 23 23 482 48 48 538 87 IFF 035 92 RTN 091 92 RTN 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 05 05 00 0 0 0 0 0 0 0 0 0 0 0 0	033	01		909		n	145			201	- CO		257	400	CTD		20	20	929		2 405	175	05 4		04	0.4	507		W.
035 92 RTN 091 92 RTN 147 03 3 203 03 3 259 00 0 315 04 04 371 00 0 427 00 0 483 95 = 539 05 05 036 00 0 092 03 3 148 01 1 204 03 3 260 42 STO 316 33 33 372 00 0 428 67 EQ 484 69 DP 540 04 04 0371 01 1 093 00 0 149 92 RTN 205 92 RTN 261 12 12 317 36 PGM 373 00 0 429 05 05 485 01 01 541 74 74 038 02 2 094 04 4 150 02 2 206 03 3 262 07 7 318 20 20 374 00 0 430 28 28 486 04 4 542 98 ADV 039 92 RTN 095 92 RTN 151 01 1 207 02 2 263 32 XIT 319 12 B 375 69 DP 431 35 1/X 487 71 SBR 543 97 DSZ 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STO 376 02 02 432 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 321 11 11 377 04 4 433 65 x 489 48 48 545 02 02 042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 x 546 40 40 43 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 492 94 x -548 98 ADV 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 XZ 324 10 10 380 00 0 436 00 0 492 94 x -548 98 ADV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 490 40 45 549 98 ADV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 490 40 45 550 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 3 160 03 3 216 02 2 272 00 00 328 44 SUM 334 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 497 42 STO 050 03 3 106 07 7 162 05 5 18 02 2 274 22 INV 330 69 DR 386 00 0 444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 211 06 6 277 77 GE 333 12 12 389 02 2 4445 28 EUG 501 44 SUM	0.24	794				3				202	7					7.75		CDD											
036 00 0 092 03 3 148 01 1 204 03 3 26D 42 STD 316 33 3372 00 0 428 67 EQ 484 69 DP 540 04 04 037 01 1 093 00 0 149 92 RTH 205 92 RTN 201 12 12 317 36 PGM 373 00 0 429 05 05 485 01 01 541 74 74 038 02 2 094 04 4 150 02 2 206 03 3 262 07 7 318 20 20 374 00 0 430 28 28 486 04 4 542 98 ADV 039 92 RTN 095 92 RTN 151 01 1 207 02 2 263 32 XIT 319 12 8 375 69 DP 431 35 1/X 487 71 SBR 543 97 DSZ 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STD 376 02 02 432 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 321 11 11377 04 4 439 65 4 489 48 48 554 02 02 042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 0 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 X2 324 10 10 380 60 0 436 00 0 492 94 +/- 548 98 ADV 045 00 0 101 00 0 157 03 3 213 03 269 49 PRD 325 01 1 381 00 0 438 01 1 494 04 04 550 98 ADV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 438 01 1 494 04 04 550 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 493 71 SBR 549 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 049 00 0 105 00 0 161 03 3 16 02 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 + 552 92 RTN 049 00 0 105 00 0 161 03 3 16 02 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 499 55 + 552 92 RTN 049 00 0 105 00 0 161 03 3 16 02 2 274 22 INV 330 69 DP 386 90 0 444 28 55 + 498 01 01 05 05 00 0 161 03 3 166 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 90 0 444 28 55 + 498 01 01 05 05 00 0 10		0.1				-				SUZ		- 1							3/4	UY									
036 00 0 0 02 03 3 148 01 1 204 03 3 260 42 STD 316 33 33 372 00 0 428 67 EQ 484 69 DP 540 04 04 037 01 1 093 00 0 149 92 RTN 205 2 2 263 32 RTT 319 12 B 375 69 DP 431 25 1/X 487 71 SBR 543 97 BSZ 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STD 376 02 02 492 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 0 321 11 11 377 04 4 439 65 ** 489 48 48 545 02 02 042 01 1 099 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 ** 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 0 044 02 2 100 03 3 156 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 492 94 ** 548 98 RDV 045 00 D 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 D 437 85 ** 493 71 SBR 549 98 RDV 046 02 2 102 06 6 158 00 0 214 01 1 27D 12 12 326 03 3 382 00 0 488 01 1 494 04 04 550 98 RDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 ** 495 48 48 551 98 RDV 046 02 2 104 03 8 160 03 3 216 02 2 274 22 INV 330 69 DP 386 00 0 442 55 ** 498 01 91 050 03 3 166 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 ** 498 01 91 050 03 3 166 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 ** 498 01 91 050 00 0 00 00 00 00 00 00 00 00 00 00		36	KIN	091	92	RIN	14705					3	259	0.0	0	315	04	-04	371		0 427	00	0 4			=	539	05: 0	5
037 01 1 093 00 0 149 92 RTN 205 92 RTN 261 12 12 317 96 PGM 373 00 0 429 05 05 485 01 01 541 74 74 038 02 2 094 04 4 150 02 2 206 03 3 262 07 7 318 20 20 374 00 0 430 28 28486 04 4 542 98 ABV 039 92 RTN 095 92 RTN 151 01 1 207 02 2 263 32 XIT 319 12 B 375 69 BP 431 35 1/X 487 71 SBR 543 97 BSZ 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STD 376 02 02 432 92 RTN 468 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 321 11 11377 04 4 439 65 x 489 48 48 545 02 02 042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRB 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 449 10 2 2 547 00 0 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 482 94 +/- 548 98 ABV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 543 98 ABV 045 02 2 102 06 6 158 00 0 2 14 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 ABV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 493 71 SBR 543 98 ABV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ABV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ABV 049 00 0 105 00 0 161 03 3 216 02 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 ± 552 92 RTN 049 00 0 105 00 0 161 03 3 216 02 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 ± 552 92 RTN 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 BP 386 00 0 441 88 8497 42 STD 050 03 3 166 07 7 162 05 5 218 02 2 274 22 INV 330 69 BP 386 00 0 441 88 8497 42 STD 050 00 01 01 01 01 01 1 1 220 01 1 276 00 00 332 43 RCL 388 03 08 344 42 21 INV 500 22 INV 505 00 01 01 01 01 01 1 1 1 1 1 1 1 1 1	036	0.0	0			2	148		-	204					CTI	216		22				27	FOL	24		np	540	04 0	4
038 02 2 094 04 4 150 02 2 206 03 3 262 07 7 318 20 20374 00 0 430 28 28 486 04 4 542 98 ADV 039 92 RTN 055 92 RTN 151 01 1 207 02 2 263 32 XIT 319 12 B 375 69 0P 431 35 1/X 487 71 SBR 543 97 BSZ 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STD 376 02 02 432 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 321 11 11377 04 4 439 65 × 489 48 48 545 02 02 042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 NZ 324 10 10 380 00 0 435 00 0 491 02 2 547 00 0 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 NZ 324 10 10 380 00 0 436 00 0 492 94 +- 548 98 ADV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 ADV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 49 SDR 384 07 7 440 43 RCL 496 95 = 552 92 RTN 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 SUF 384 07 7 440 43 RCL 496 95 = 552 92 RTN 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 SUF 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 386 00 0 442 55 5 489 01 91 051 92 RTN 107 92 RTN 163 92 RTN 163 92 RTN 163 92 RTN 163 92 RTN 165 02 2 274 22 INV 330 69 DF 386 00 0 441 98 08 497 48 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DF 386 00 0 441 98 08 497 48 STD 050 00 0 109 01 1 165 03 3 210 6 6 277 77 GE 333 12 12 389 02 2 445 28 LDG5001 44 SUM		0.1				0			5711			071			10	017		200	212		1750								
039 92 RTN 095 92 RTN 151 01 1 207 02 2 263 32 X1T 319 12 B 375 69 DP 431 35 1/X 487 71 SBR 543 97 BSZ 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 5TD 376 02 02 492 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 321 11 11 377 04 4 439 65 ** 489 48 48 545 02 02 02 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 ** 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 0 044 02 2 100 03 3 156 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 492 94 ** 548 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 ** 493 71 SBR 549 98 RDV 046 02 2 102 06 6 158 00 0 214 01 1 27D 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 RDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 ** 495 48 48 551 98 RDV 046 02 2 104 03 8 160 03 3 216 03 2 277 00 00 0328 44 SUM 384 07 7 440 43 RCL 496 95 ** 552 92 RTN 049 00 0 105 00 0 105 00 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DR 386 00 0 442 55 ** 498 01 91 050 03 0 101 07 92 RTN 163 92 RTN 165 03 3 211 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM		1				-						KIN				317		-0.25	3/3							7 -	-		7
039 92 RTN 095 92 RTN 151 01 1 207 02 2 263 32 XIT 319 12 B 375 69 0P 431 35 1/X 487 71 SBR 543 97 D92 040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STD 376 02 02432 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 321 11 11 377 04 4 439 65 X 489 48 48 545 02 02 042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 0 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 492 94 +-548 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 RDV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 RDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 RDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 RDV 049 00 0 105 00 0 105 00 3 216 03 2 272 00 00 0 328 44 SUM 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 105 00 3 216 03 2 272 00 00 0 328 44 SUM 384 07 7 440 43 RCL 496 95 = 552 92 RTN 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DR 386 00 0 442 55 + 498 01 91 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DR 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 129 92 RTN 275 44 SUM 331 00 00 387 69 DP 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 322 43 RCL 388 03 03 444 22 INV 500 22 INV 505 00 01 105 00 01 105 00 01 1 105 03 221 06 6 277 77 GE 333 12 12389 02 2 445 28 LDG501 44 SUM	038		6	094	04	MA 1	150			206			262	97		318			374		0 430		28 4	86		4	542	98 AD	4
040 02 2 096 03 3 152 01 1 208 01 1 264 01 1 320 42 STD 376 02 02 432 92 RTN 488 04 04 544 09 09 041 00 0 097 00 0 153 07 7 209 05 5 265 00 0 321 11 11377 04 4 439 65 x 489 48 48 545 02 02 042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 492 94 +- 548 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 436 00 0 492 94 +- 548 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 RDV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 RDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 RDV 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 1NT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 163 92 RTN 170 42 270 00 03 32 43 RCL 388 03 08 444 22 INV 500 22 INV 505 00 0 109 01 1 165 03 3 210 6 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM	039		RTN		92	RTH	151	01		207					VET						FID 421					SEP	543		7
041 00 0 097 00 0 153 07 7 209 05 5 266 00 0 321 11 11377 04 4 439 65 x 489 48 48 545 02 02 04 01 1 098 05 5 154 01 1 210 03 3 266 49 PRD 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 049 02 2 100 03 3 156 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 044 02 2 100 03 3 156 92 RTN 22 92 RTN 268 33 x2 324 10 10 380 00 0 436 00 0 492 94 +- 548 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 436 00 0 492 94 +- 548 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 RDV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 RDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 RDV 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 1NT 329 10 10 385 00 0 441 98 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 1NV 330 69 DR 386 00 0 441 98 08 497 42 STD 051 92 RTN 107 92 RTN 163 92 RTN 163 92 RTN 129 92 RTN 275 44 SUM 331 DO 00 387 69 DP 443 04 4 499 59 1NT 053 00 0 109 01 1 165 03 3 210 6 6 277 77 GE 333 12 12 388 03 08 444 22 RVN 500 22 1NV 505 00 0 109 01 1 165 03 3 210 6 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM								177	7			TE			ANALY.	000					100				100				
042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRB 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 044 02 2 100 03 3 156 92 RTN 268 33 X2 324 10 10 380 60 0 436 00 0 492 94 + 548 98 ADV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 ADV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 3 160 03 3 216 03 2 272 00 00 328 44 SUN 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 129 92 RTN 275 44 SUN 331 00 00 387 69 DP 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 3444 22 INV 500 22 INV 505 00 0 19 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUN						9	105		4			1			4	020			376		92 432					-			2
042 01 1 098 05 5 154 01 1 210 03 3 266 49 PRB 322 07 7 378 03 3 434 01 1 490 85 + 546 40 40 043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRB 379 00 0 435 00 0 491 02 2 547 00 0 044 02 2 100 03 3 156 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 492 94 +- 548 98 ADV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRB 325 01 1 381 00 0 437 85 + 492 71 SBR 549 98 ADV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 3 160 03 3 216 03 2 272 00 00 328 44 SUB 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DR 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 SUB 331 00 00 387 69 DP 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 48 RCL 388 03 03 3444 22 INV 500 22 INV 505 00 0 19 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUB	041		0	097					-7-1	208	05	5	265		0	321	-11	14	37.7	84	4 433	65	1 10 4		148	48	545		21
043 92 RTN 099 92 RTN 155 04 4 211 07 7 267 00 00 323 49 PRD 379 00 0 435 00 0 491 02 2 547 00 0 0 444 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 492 94 +/- 548 98 RDV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 436 00 0 482 94 +/- 548 98 RDV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 RDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 RDV 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 80F 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 1NT 329 10 10 385 00 0 441 08 08 497 42 8TD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 80F 331 00 00 387 69 DP 443 04 4 499 59 INT 052 02 2 108 03 3 164 01 1 220 01 1 276 00 00 332 48 RCL 388 03 08 444 22 INV 500 22 INV 505 00 0 19 01 1 165 03 3 21 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG 501 44 80F	049		1		05		154									000		3	270		11.75	- 63					544		D
044 02 2 100 03 3 156 92 RTN 212 92 RTN 268 33 X2 324 10 10 380 00 0 436 00 0 492 94 +/- 548 98 ADV 045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 ADV 046 02 2 102 06 6 158 00 0 214 01 1 27D 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 1NT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DR 386 00 0 441 08 08 497 42 STD 051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 SUM 331 00 00 387 69 DR 443 04 4 499 59 INT 052 02 2 108 03 3 164 01 1 220 01 1 276 00 00 332 48 RCL 388 03 08 444 22 INV 500 22 INV 505 00 0 10 10 10 10 10 10 10 10 10 10 10 1						100										244		-	510										
045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 HDV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 HDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 HDV 048 02 2 104 03 8 180 03 3 216 02 2 272 00 00 328 44 SUN 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 UR 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 275 44 SUN 331 00 00 387 69 UP 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 322 43 RCL 388 03 03 444 22 INV 500 22 INV 505 00 0 1 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUN		35	-		27 /	12 1 14			. 4	211			251			323	49	PRU	379		0 435								333
045 00 0 101 00 0 157 03 3 213 03 3 269 49 PRD 325 01 1 381 00 0 437 85 + 493 71 SBR 549 98 ADV 046 02 2 102 06 6 158 00 0 214 01 1 270 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 ADV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 SUN 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 UP 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 275 44 SUN 331 00 00 337 69 UP 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 444 22 INV 500 22 INV 5053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LUG501 44 SUM	044	0.2	2			:3	156	92			92	RTH			XZ	324		10			0 436		0.4	92	94	+16-1	548	98 AD	W
046 02 2 102 06 6 158 00 0 214 01 1 27D 12 12 326 03 3 382 00 0 438 01 1 494 04 04 550 98 HDV 047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 HDV 048 02 2 104 03 8 160 03 3 216 03 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 + 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 496 7 42 8TD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 SUM 331 00 00 387 69 DP 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 444 22 INV 500 22 INV 503 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM	1045					0			3	015		20						1 175			0 100				71				
047 92 RTN 103 92 RTN 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 8 160 03 3 216 02 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 = 552 92 RTN 049 00 0 105 00 0 161 03 3 217 04 4 273 59 1NT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DR 386 00 0 441 08 08 497 42 STD 051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 SUM 331 00 00 387 69 DR 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 08 444 22 INV 500 22 INV 505 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM							+ 44				03		200		E IZT	WE J		31	201		1450	- 00		3.5	44				
047 92 RTM 103 92 RTM 159 01 1 215 03 3 271 43 RCL 327 06 6 383 03 3 439 85 + 495 48 48 551 98 ADV 048 02 2 104 03 8 160 03 3 216 03 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 + 552 92 RTM 049 00 0 105 00 0 161 03 3 217 04 4 273 59 INT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 + 498 01 91 051 92 RTM 107 92 RTM 163 92 RTM 219 92 RTM 275 44 SUM 331 00 00 387 69 DP 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM		44								214	111	-1	2/11	12	12	326		3			0 438				114				
048 02 2 104 03 3 160 03 3 216 03 2 272 00 00 328 44 SUM 384 07 7 440 43 RCL 496 95 = 552 92 RTM 049 00 0 105 00 0 161 03 3 217 04 4 273 59 1NT 329 10 10 385 00 0 441 08 08 497 42 STD 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 + 498 01 91 051 92 RTM 107 92 RTM 163 92 RTM 219 92 RTM 275 44 SUM 331 00 00 387 69 DP 43 04 4 499 59 INT 052 02 2 108 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM	047	92	RTH	103		RTH	159	04	1	215	03		271	43	ROL	327	06	6			3 439	85	+ 2		48	48	551	98 AD	W.
049 00 0 105 00 0 161 03 3 217 04 4 273 59 1NT 329 10 10 385 00 0 441 08 08 497 42 STO 050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 0P 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 SUM 331 00 00 387 69 0P 443 04 4 499 59 INT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 382 48 RCL 388 03 08 444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM	049	0.2			112	10	150		500	200						220				07									
050 03 3 106 07 7 162 05 5 218 02 2 274 22 INV 330 69 DP 386 00 0 442 55 + 498 01 91 051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 8UM 331 00 00 387 69 DP 443 04 4 499 59 INT 052 02 2 108 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 8UM									2			= 1	414					901	204										11
051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 SUM 331 DO 00 387 69 DP 443 04 4 499 59 INT 052 02 2 108 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG 501 44 SUM				100		U	161		3	217	114	14.		59	THE	329	10	111			0 441								
051 92 RTN 107 92 RTN 163 92 RTN 219 92 RTN 275 44 SUM 331 00 00 387 69 DP 443 04 4 499 59 1NT 052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG 501 44 SUM	050		3			7	162	95	5	218			274		INV		69				0 442	55			01	91			
052 02 2 103 03 3 164 01 1 220 01 1 276 00 00 332 43 RCL 388 03 03 444 22 INV 500 22 INV 053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG 501 44 SUM	051	95	PTN	107		DTH		90	DIM	010		CTN	375			201		00											100
053 00 0 109 01 1 165 03 3 221 06 6 277 77 GE 333 12 12 389 02 2 445 28 LDG501 44 SUM		00				To be to		7.4	10111	545		Red Ch	210			004						U+	2021						-
		45				3		UL	1	220	01	1	276	98	00	332		RUL			03 444					THY			
	053		0	109	01	1	165					E	277	77	GE		12	10	229		2 445		UTIC S		44	SUM			- 31
055 92 RTM 111 92 RTM 167 03 3 223 07 7 279 82 82 335 03 03 391 00 0 447 92 RTM 503 69 UP		Da									17.0	-						DE		0.0				02	DA	631			
000 76 01M 111 72 KIN 150 U3 3 223 U7 7 279 82 82 335 03 U3 391 00 0 447 92 RTM 503 69 DP				111						255	71	1				004				CAT					TO SA	mm			100
	.000	260	17.17	111	25	PER PE	101			443		- 1	469					43	391		0 447		KING		04	TI.			
											-		_						-		1000			700	100	100			

WILL THE SILENT MAJORITY PLEASE STAND UP?

The following articles ask for your support in two major areas, newsletter input and program submission. PPX-59 needs your ideas and submissions to maintain its high level of TI-59 software excellence.

THE PPX EXC HANGE NEEDS YOU

The PPX Exc hange is your newsletter. In the past, both PPX-52 and PPX-59 members have supported the PPX Exchange with feature articles and programming hints. Beginning with this issue, PPX-52 members are no longer contributing to or receiving this newsletter. In order to keep your newsletter as informative as it has been in the past, it now becomes more important than ever that we hear from you. We know many of you have TI-59 programming techniques, accomplishments and stories of interest that others would enjoy reading. As with any other membership, PPX-59 membership becomes more gratifying when you are actively involved. So let's hear from our silent majority with a PPX Exc hange input.

When submitting an article, keep to a maximum of approximately 3 typed double spaced pages. Examples of keystroke sequences should be included to aid the reader when appropriate. We try to get as much variety as possible into each newsletter. Therefore, publication of articles and programming hints is sometimes postponed to later issues. Also should space or subject matter become a problem, feature articles are published in a condensed form under the column

"From the Analyst's Desk".

Active membership participation in submitting programs to PPX-59 is a must to ensure continued success of your program exchange. The following checklist will help insure acceptance of your programs upon submission.

1. Check the Catalog to determine that your program

does not duplicate an existing program.

2. Type or neatly print your program in black ink. Submitted programs are photocopied to fill orders. For this reason, blue ink and pencil are not acceptable as they will not reproduce adequately.

3. Be sure to document all methods, equations, and sources used by your program. In addition, mention any input limitations of your program. For example - 'division by zero is not legal as the program does not have a recovery routine to handle it.'

4. Run the sample program several times to be certain that it operates as indicated in your documentation. Be sure to include run time for any step which exceeds one minute.

- 5. Compare the keycodes recorded on your magnetic card(s) to the listing in your documentation. They must be exactly alike. Apply glue to complete back surface of PC-100A listing.
- 6. Review your program to see that there are no documentation errors or omissions. Refer to your Member's Guide for assistance in this area.

7. Remember to sign the submission abstract.

8. Be sure to enclose your magnetic card(s) with your

Above all, remember that your documentation is reproduced and forwarded to other members. Put yourself in the place of the user, when you document your program.

PROGRAMMING SYSTEMS

The November 1978 issue of the PPX Exc hange introduced the concept of programming systems. PPX has received two more systems, bringing the total offering to four. A program is classified as a programming system when the documentation length exceeds the general format of PPX-59. Although the number of program steps usually exceeds the 960 steps available on the TI-59 calculator, these programs can still be run on your TI-59. This is possible because the programs are split into segments which are executed one at a time. The registers retain data needed between each segment.

To order a programming system, write the program number and title on your PPX-59 order form and enclose \$15 plus tax, postage, and handling. Documentation only will be sent (magnetic cards are not included). The four pro-

gramming systems available are:

000001 STAR TREK

You are in command of the starship Enterprise. The TI-59/PC-100A generates a 9 quadrant galaxy complete with Klingon battle cruisers, starbases, and an array of stars to deter your movement through space. As commander, your mission is to seek out and destroy all Klingons in the galaxy. Your battle computer will respond to 6 major commands: set course, long range scan, phaser control, shield control, library computer, and short range scan.

William G. Bryson, Houston, Tx. 6295 steps, PC-100A

PROGRAM SUBMISSION CHECKLIST COLONO COMPLETE PAYROLL SYSTEM (NEW YORK)

Handles complete payroll calculations for weekly and quarterly reports. Incorporates tax tables, provisions for sick days, vacation days, etc. With modification, this program may be used in other states.

Analyst Note: Documentation is clear but complex due to separate tables, etc.

Merton A. Sigoda, Roslyn Heights, N.Y. 5000 steps, PC-100A

000003 FHWA TRAFFIC NOISE PREDICTION MODEL

Calculates LEQ and LIO, in decibels, for autos, medium trucks, and heavy trucks. In addition, calculates path length difference, fresnel number, and attenuation. Determines LEO and LIO values for barrier attenuation and finite highway sections, and distance to noise contour line.

Robert C. Rutland, Austin, Tx. 1250 steps, PC-100A

000004 REINFORCED CONCRETE ANALYSIS

Determines the positive and negative bending moments, the associated curvature at which the system cracks and steel yields, and the ultimate strength for reinforced concrete members subject to flexure and axial loads.

P.J. Thompson, Lower Hutt, New Zealand 5160 steps, PC-100A, Mod 1

- · A program to convert navigational data in the LORAN A
- · system to data in the LORAN C system.
- Within the area of radio immunology, a program to convert standard curve measurements of counts per minute to clinical doses.
- A program to convert Chinese years to Gregorian Years.
- In the area of mathematics, programs to calculate the incomplete Gamma and Beta Function, and the incomplete Elliptical Integral.

Proof that our system works... In July, our PPX-59 Programming Corner requested Civil Engineering programs dealing with hydraulics. Mr. Robert C. Thacker Jr. came quickly to the rescue with the following information: A book containing 40 programs written for the SR-52, TI-57/58/59 entitled "Hydrologic and Hydraulic Computations on Small Programmable Calculators" is available for \$15.95 plus tax. To obtain your copy write to the Iowa Institute of Hydraulic Research, The University of Iowa, Iowa City, Iowa 52242.

FROM THE ANALYST'S DESK

• A typographical error in the article "SR-52/TI-59: The Art of Data Packing" (November 1978, PPX Exc hange) has been brought to our attention. Please make the following corrections to your newsletter:

The italics next to steps 005-007 of the TI-59 listing for "packing both positive and negative numbers"

should read as 10×+1 instead of 10×+y.

The italics next to steps 036-038 of the TI-59 listing for "unpacking both positive and negative numbers" should read as 10^{x+y} instead of 10^{x+1} .

• Mr. David R. Hockman has passed along the following suggestion: The product "Wet Ones®" by Lehn & Fink Division of Sterling Drug Inc. has done an excellent job of cleaning magnetic cards when they slip or misread. In Mr. Hockman's work, it is necessary for him to read about 20 cards per day per customer. In one year's time, none of his cards have worn out or become unreadable.

• Mr. Michael J. Dhuey suggests the following: If you use your calculator to evaluate algebraic expressions and forget which variables are stored in which registers, here is a handy programming technique to keep track of your variables.

Suppose the expression you want to evaluate is D = A x SIN(B) + C. You could remember register 5 is A, 7 is C, and so forth, but there is a far simpler way to do it. Just use the user defined keys as the operand in a register instruction. This will work in learn mode for all ten user defined keys. It will use registers 10-19 by using the keycode as the register number (e.g. A is register 11). If you want to store the value of A, just press STO A. Using this technique, a program to evaluate D could be entered: *Lbl A STO A RTN * Lbl B STO B RTN *Lbl C STO C RTN * Lbl D RCL A x RCL B *sin + RCL C = RTN.

Given this program, you can evaluate D for A = 5, B = 30, C = 17 by the following key sequences: 5 A 30 B 17 C D which leaves D(19.5) in the display.

- Our readers have sent in more suggestions for labeling magnetic cards. Mr. George S. Flanik recommends the "Pilot" SC-UF fine point permanent-ink felt marker. PPX Program Analysts have been using this pen with excellent results. Mr. David W. Childs prefers using presstype (Helvicta 6-pt.) to label his magnetic cards. Presstype will not come off during card reads but may be wiped off with a wet cloth. Check which your local office supply store to obtain your personal preference.
- It has been brought to our attention by Mr. John Turpin that Program 05 in the Business Decisions Library contains

an undocumented feature. By pressing SBR *Prt after SBR CLR, the pause command will be eliminated for those people using the PC-100A — thus, saving execution time.

• Have you ever needed more data registers yet you could not sacrifice the program steps? If you have, Mr. J.R.M. Vaughan may have a simple solution for you based on the

fact that TI-59 memory is partitioned into program steps and data registers. (This relationship is described on page

V-42 of your Personal Programming Manual).

Mr. Vaughan solves this problem by reassigning the space that had been taken up by 'earlier executed' program steps (e.g., initialization routines). By placing such routines at the end of his current partition and repartitioning after the 'early execution', the number of available registers is increased. One word of warning . . . after repartitioning the newly freed registers will contain the program steps which formerly occupied those locations in memory. Therefore, if you intend to SUM into these registers, be sure to clear the registers(nn) with 0 STO nn prior to use.

• To clear a portion of memory, Paul B. McDowell offers the following suggestion: The program should be written such that the registers to be cleared are in blocks of 10 registers. Then, the following subroutine should be included as an initialization routine: *Lbl CLR M *Op 17 CMS N *Op 17 INV SBR where registers 00 through (Mx10)-1 are to be cleared and N returns the program to the original partition. For example, to clear registers 00-19 with an original partition of 479.59 (i.e. 6 *Op 17), the subroutine would be: *Lb1 CLR 2 *Op 17 CMS 6 *Op 17 INV SBR. This is useful when you want to clear registers containing data, yet you do not want to clear registers containing alphanumeric print codes.

• If you want to halt a TI-59 program in progress, one of two keys will do it. R/S will stop a program executing in the user program memory; RST will stop a program in a library module. If a program is alternating between a user program and library module, press R/S and RST simul-

taneously.

• The Personal Programming Manual mentions a method for tracing program execution through the display. If the GTO key is pressed while the program is running, the contents of the display register will be displayed as the program is running. This can be handy for debugging a program if you do not have a PC-100A to trace the program.

"Multiple Linear Regression—5 Ind. Variables" (PPX-59 #208007) is no longer being offered by PPX. The December 1978 Addendum contains abstracts of 2 new programs that will handle these types of computations. They are: "Multiple Regression — Nine Independent Variables" (PPX-59 #208029) and "Multiple Regression — 5 Independent Variables" (PPX-59 #208016).

The PPX Exc hange is published every other month and is the only newsletter published by Texas Instruments for TI-59 owners. You are invited to submit items you feel are of general interest to other TI-59 users. Inputs should be limited to 3 double-spaced typed pages. Please forward your newsletter inputs and any questions to:

TEXAS INSTRUMENTS PPX P. O. Box 53 Lubbock, TX 79408 Attn: PPX Exchange Editor