

**Southwest
Ninety-Niners
Newsletter
contributed by
- Tom Wills -
SW99ers User Group President of Record
compliments of**



**TI99ers
On-Line
User Group**

www.ti99ers.org

SOUTHWEST NINETY-NINERS

JUNE 1988

P.O. Box 17831 Tucson, AZ 85730

Officers

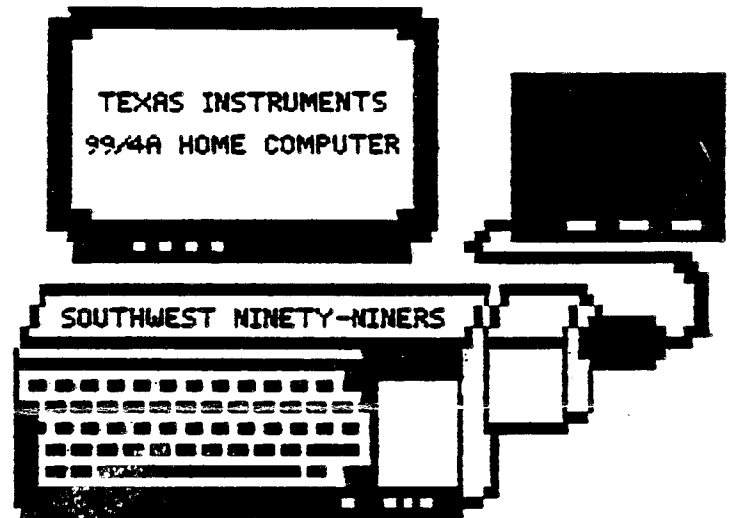
BJ Mathis - President
Ed Hallett - Vice President
Ed McCullough - Secretary
Al Armstrong - Treasurer

Newsletter

BJ & Jack Mathis - Editors

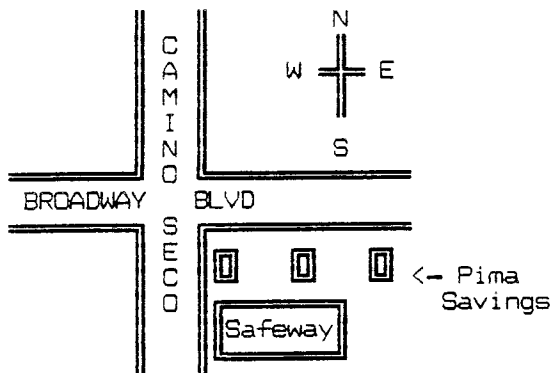
Library

BJ & Jack Mathis - Co-Chairmen
Joe Lenox - Fairware Librarian
Ida McCargar - Lending Librarian



ATTENTION MEMBERS!!

Next meeting, SATURDAY, JUNE 4th at Pima Savings on Broadway Blvd, east of Camino Seco at 1pm. We will NOT meet there next month, see below!!!



UPCOMING EVENTS

So far, I have been unable to confirm any demonstrations for June, but rest assured, if I can't get anyone else to do something, Jack will demonstrate some of the programs we brought back with us from the Fest West. If Rod Stallard doesn't have to work he will present an overview of Forth. Currently, Eric Stallard is scheduled to give us an overview of LOGO and Ida McCargar will explain some PRBASE usage and tricks in July.

A NEW HOME!!

The SouthWest Ninety-Niners have at last found a new and hopefully permanent meeting place. Starting on the FIRST THURSDAY in JULY at 7pm, we will meet at Devon Gables Executive Dining Room. Devon Gables is located on Grant, across from the Price Club. A map will be included in the July newsletter. See you there!!

Geneve Users Workshop: Second Tuesday of each month at 7:00pm (June 14th). Ed Hallett's home 5600 S Country Club #64 - 889-5525.

TI Users Workshop: Third Tuesday of each month at 7:30pm (June 21st). Bring all your TI-99/4A questions and problems to the Mathis Home - 5941 E 26th - 747-5046

Advanced Languages Workshop: Fourth Tuesday of each month at 7:30pm (June 28th). Includes: FORTH, A/L, etc.
Rod Stallard's Home - 7575 E Logan - 745-6071

PRESIDENT'S CORNER

Ida McCargar has done something for us this month, that several people have mentioned, but no one has taken to time to do. We will have a Disk of the Month for June! The Officers have decided to make this disk FREE to all members who attend the meeting. Members who live out of town need to provide a disk mailer and postage. Other non-attending members can get the DOM for \$1 at a later meeting or send \$1 plus postage and mailer.

I am excited about our new meeting place starting in July.

Devon Gables, a Nursing/Convalescent Home, has a beautiful executive dining room. They decided to allow groups to use the facility when they are not. It is nicely decorated and I think we will be very spoiled in short order. The space is smaller than the amount we had at the Fire Station, but much larger than the Hospitality Room at Pima Savings. It is a no-smoking room, so please keep that in mind. And YES!, there is a CARL'S JR. close by, for those of us who can't seem to go home when the meeting is over!!

BJ Mathis - 747-5046

May's Minutes

1. Jack Mathis conducted the Question & Answer period.
 - Q. LeRoy Allen asked for clarification about the article on page 6 of SouthWest 99ers May '88 edition.
 - A. This was done with Super Extended Basic and a program called Class, by the author of Class, Bill Harms.
 - Q. LeRoy also wanted to know how to print the same info in 2 columns with Writer.
 - A. Several ideas were offered, but the fastest seems to be to type it twice, in the case of the poetry LeRoy was talking about. (Or maybe MEMOPRINT on the DOM, see below, will do the trick! BJ)
 - Q. Les Neff inquired whether PRBASE, BA-Writer and TIMP could be put on the same disk.
 - A. PRBASE and TIMP each require the disk they are on to be called PRBASE or TIMP respectively, therefore if both were on the same disk one or the other would not work.
 - Q. Leonard Taffs indicated he was having trouble with his Speech Synthesizer.
 - A. He will have to bring it to a meeting to be checked.
2. BJ announced Southern Nevada Users Group (SNUG) sent us a video of some of the talks by various speakers at Fest West. The video will be made available through the Lending Library.
3. In July we plan to start demonstrating the programs that were obtained at the Fest West.

4. John McCleary presented an overview of Word Processing on computers.
 - a. Desk Top Publishing evolved from publishing through the use of computers.
 - b. Word Perfect, IBM is command driven
 - c. Apple System is menu driven and is therefore far easier to learn to use.
 - d. Apple is at the leading edge of Desk Top Publishing today.
 - e. TI-Writer is smart enough for our home word processing use, we just have to learn to use it smarter.
 - f. When using TI-Writer or one of its clones (BA-Writer, FunlWriter, etc.) it is best to set it up as follows:
Line No.
0001 Put printer commands here without a carriage return, you may put as many printer commands as you wish on the same line.
0002 Put formatter commands here i.e. .FI;AD;LM...etc., you may put as many formatter commands on the same line as you wish.
0003 Page Length (.PLn) must be on a line by itself.
- g. Although the Writer manual shows the format for left margin, centering, right margin, etc. to be .LM n;RM n;CE....it is possible to put in the commands as .LMn;RMn;CE... This allows you to put even more formatter commands on the same line should you wish to do so.

Ed McCullough, Secretary

AVATEX 1200E Modem - Review

by Todd Clifton

I've always wanted to upgrade to a 1200 baud modem. My trusty 300 bd. modem had introduced me to the world of telecommunications fairly painlessly. Soon the idea of downloading a file in 15 min. versus 45 min. and letting the computer do the dialing instead of my fingers doing the walking took its toll. I soon found an ad in Computer Shopper that sounded too good to be true! A 1200 bd. modem that was FULLY Hayes compatible for \$69.95!! I would have normally thought for such a price it must be a piece of junk, but Computer Shopper had given this modem its "Best Buy" award for 1987. With this in mind I picked up the phone and placed my order.

In due time my new modem arrived. Once having made an RS-232 cable for it I was ready to try it out. First off, the Avatex 1200e is truly Hayes compatible. In reading the owners guide for the Hayes Smartmodem (\$300) and comparing the different commands and responses with the 1200e no difference was found. Online for the first time I found that if cabled properly, the 1200e interfaces perfectly with the TI-99/4A. The auto-dialer works well with auto redial and circular dialing routines found in TELCO.

I've heard of some people experiencing modem failure due to heat buildup. I can tell you that I've been online for upto 2 hrs. at a clip and the modem hardly gets warm. So far the Avatex 1200e has not failed in any way.

The outward appearance of the modem is excellent and its small size (6X5X1) make for a powerful but compact package. Internal construction looks very good with more than adequate heat sinks installed on "hot" components.

If pressed to find anything I didn't like about the 1200e, it would have to be the internal location of the DIP switches. In order to change certain modem settings it can be necessary to remove the modem cover. Most modems have the DIP switches located at the back of the modem.

In using the Avatex 1200e modem for a few weeks now, I can say it does live up to its "Best Buy" reputation. If you are looking to replace or upgrade your modem, don't overlook this little powerhouse.

DISK OF THE MONTH

Prepared by Ida McGargar

The disk of the month (DOM) will be FREE to all those attending the June meeting. Those who live out of town can send a disk mailer and postage for their FREE copy.

June's DOM includes the following programs.

3/COL/CAT - Prints a disk catalog in 3 columns. Good when you have a number of short programs on a disk.

DINGDONG - A subroutine to insert in a program. When you CALL DINGDONG a bell will ring.

FISH - Enjoy this aquarium without the work.

KALEID - A colorful graphics program.

LOVE-STORY - Boy meets girl in a winter landscape.

MAKE-LABEL - Make your own Gift Tags.

MEGASORT96 - J. Peter Hoddie's new Sort program.

MEMOPRINT - If you need to duplicate a short Memo, this program will print as many as you need side by side in 2 columns.

TRAFFICOP - This game was in our newsletter a few months ago. If you didn't get it typed in, run this program and test your skill at directing traffic.

TRAIN - Music with colorful graphics for the train lover.

US/STATES - A Geography game. If you guess all the states correctly there is a surprise at the end.

USFLAG - Graphics. Try putting music to this - the Star Spangled Banner, perhaps.

NEWS BYTES

Suncoast Beeper, April 1988. The GRAMULATOR has been designed produced, and is being shipped. This is a replacement product for those who wanted a GramKracker type device, but were a little late in ordering it. It is shipped fully constructed and tested and is accompanied by full documentation. The price is \$180. Using it, you will be able to back-up GROM and ROM type cartridges. It will function as a SUPER CART, allow user written GPL code, and allow you to customize the TI operating system. (Few things in life are as much fun as designing your own start-up screen.) The software needed to load and save GRAM and GROM is built-in for immediate access. A disk drive and memory expansion are required for operation. Write to: Mark Van Coppenolle, 52 Audubon Rd, Haverhill, MA 01876; (607)371-0336.

The PUG Peripheral, May 1988. Asgard Software has announced CALENDAR MAKER 99 which allows you to create large detailed picture calendars on your computer. It will create calendars for the year 1600 to 2400 and will allow you to use TI-Artist instances on the day block. You can place notes on any day, define border style, typeface and calendar headers. It requires 32K, ExBasic, Epson compatible printer, and disk system. It costs \$19.95 + .75 for shipping from ASGARD SOFTWARE, PO Box 10306, Rockville, MD 20850.

ASGARD PUBLISHING has begun publishing a quarterly newsletter. By subscribing now you can cash in on a 50% reduction from the normal rate. You get 4 issues for \$6. Order from Asgard Publishing, Box 10697, Rockville, MD 20850.

Ryte-data has announced an upgrade for Monty Schmidt's COMMAND DOS effective January 1988. If you have an earlier version, you can upgrade by returning the original disk with \$5 to RYTE-DATA, 210 Haliburton, Ontario, Canada K0M 1S0. Command DOS uses the extra space in a Supercart, GramKracker, Mini-Mem etc. to provide DOS commands like CLS, DIR, RENAME, and DISKCOPY are all available right from the keyboard. The price is \$29.95.

Databiotics is close to shipping the GRAND RAM to customers that have ordered directly from them. But I would hold off for awhile before ordering as they may have trouble delivering them on time.

Western New York 99ers Interface, May 1988: For those of you that own Star Micronics NX 10s or NX 1000s, here's a little tip: I had a lot of trouble with double strike on my NX 10. Occasionally, it would seem to jump too far on the second or third pass and give me a ghost image. I found the problem is too much lash between the tractor feed and the holes in the paper. The cure is to set the printer for friction feed when you have to do this kind of printing. This keeps the lash out of the tractor feed.

PUBLIC SERVICE MESSAGE for HRD Buyers: It would seem someone pulled a dirty trick on Bud Mills. It has come to his attention there were six U11 chips (6264LP-15) that got mixed into his supply of good ones, marked KOREA as the manufacturer. They aren't any good! He has tracked down one of them, I got three in my last batch of kits (why me??), so that leaves two out there somewhere. If you have been getting odd little errors on your U11 test, check the chip brand. Bud will be happy to replace the chips if you send them back to him. It wasn't his fault!!

The Western New York 99ers have published a manual called "The Writers" which is a condensed version of the TI Writer manual. It is available in quantities of 10 for \$2 each. We will order 10 if enough interest is shown.

West Penn 99ers, Jeannette, PA; March 1988: If you have a "version 2.2" TI console (one that doesn't run some Atari modules), a cheap solution is to replace GROM 0 in the console. You need part 1015960-1155 direct from TI. The chip is socketed in the console, so you don't even need a soldering iron.

Pomona Valley 99ers, April 1988: For lots of information on programming in Logo, subscribe to the LOGO EXCHANGE. It's published by the ICCE monthly for \$29.95/year. Write them at University of Oregon, 1787 Agate Street, Eugene OR 97403. The new editor, Sharon Burrows is very helpful. There are always about five 4-page articles by very well known author/programmers. Each article has actual Logo procedures from which you can learn a great deal. They cover the renowned Logo graphics and the list processing capabilities of Logo in this 30+ page magazine.

Sun City TI-994A Computer Club, El Paso, TX - May 1988: This issue's tip comes to us from those wonderful folks in the Federal Government. At work recently we received a message from a Govt. Agency that was a warning to all Computer users. The warning is NOT to clean your CRT (monitor) with an alcohol based cleaner (or any other flammable liquid). It seems that in some Govt. office, a person put some alcohol based cleaner on a rag and attempted to clean a CRT with it. What apparently happened is the static charge on the CRT caused an arc that lit the rag on fire. This was not an isolated incident, as they logged eight more cases where rags/equipment caught on fire due to this cleaning method. Personally I use water, but in case you have been using a flammable liquid you are now warned not to.

Cleveland Area TI99-4A UG, OH - April 1988: GENIAL TRAVeIER Vol. 2 is being sent out. The subscription cost is \$36 for six issues, and you get a lot for \$6.00 per disk! You can still get volume one if you desire and the cost for both would be \$65. GENIAL TRAVeIER, 835 Green Valley Dr., Philadelphia, PA 19128.

PRBASE BUG REPORT

From PUG Peripheral - May 1988

Editor's Note: I received the following from Bill Warren (author of PRBase) when I wrote to him asking for some help in formatting a data base screen. Bill has been very helpful in dealing with any problem I have encountered while using PRBase. If you are using this great program and have not sent a contribution to Bill, would you please take the time to send a check. We really need to support our Fairware authors as they are supporting us. - John Parkin

OUTPUT DEVICE NAME: Many users have experienced a printer error when attempting to print with PIO or a legal disk file name. Most of the development work was done with existing databases from version 1.2 in order to ensure upward compatibility. Also, I must have designed 50 different databases to test the code changes, but still failed to catch this bug until after release.

As you may already know, if you have already assigned a default output device name when designing a data screen with CREATE, this output device name will appear as the default whenever you edit or change your data screen. The problem is that on the first design, the old default is displayed as well, even though no former default existed. Hence, when using a freshly initialized diskette and designing a new database for this disk, when the program asks for "Output Device Name:", it presents you with a field full of character 229s (>E5), which is what the format disk routine leaves all the disk sectors filled with. Since character 229 does not have any character definition in the character pattern table, it shows up looking just like a space character, with nothing visible at all. If you try to output to a common device name like PIO, you are actually trying to output to a devicename like PIOxxxxxxxxxxx where the x's are the >E5s.

A lot of folks have mistakenly tried to work around this by using output device names such as PIO.CR. Anytime you place a period in the output devicenames such as PIO or RS232, the ROM code just scans for the first two characters following the period and then looks for another period (or sometimes an equal sign). Hence, RS232.BA=4800 and RS232.BAUDRATE=4800 and even RS232.BADBOYS=4800 are all equivalent to the system. Anyway, you probably won't have any problem with the >E5s if you are using RS232 as an output device, as most folks have SOME kind of software switches set when using a serial printer (did TI really think folks would normally use 300 bps as the default to drive a printer?).

Anyway, using PIO.CR causes all the >E5s to be ignored, but also sets a software switch, suppressing the carriage return-line feed pair that are normally sent at the end of each line of text. Not sending the CR/LF pair requires

that you space fill each printer line (send out a full 80 characters on an 80-column printer) to cause the printer to move on to the next line. This need for space filling will totally mess up your column alignment. I suspect a lot of folks who are using this method are just getting along with the "P" command screen dumps, and aren't taking advantage of PRBASE's tabular report capabilities.

The fix is simple: when you have finished designing or editing a data screen, and have advanced to where CREATE asks "output Device Name:", press FCTN-3. ERASE, before entering the output device name. This clears out the >E5s from the field and fills it with true spaces. Once you save this screen (and hence the output device name), you won't have to keep doing this.

If you have already built your database and don't wish to edit the data screen, use option 7 of CREATE, "Set System Options". When you get to the "Output Device Name:" entry, just press FCTN-3, ERASE, and enter your usual device name. Complete the other fields (accept the defaults). After entering the last field, the change will be saved, and you shouldn't have anymore trouble with the printing error appearing when attempting to print or output to disk file.

DISK FORMAT - DOUBLE-SIDED: Some folks run into trouble when the disks initialization routines used by CREATE attempt to verify sectors 361-720 on TI controllers. The disk initialization routines in the TI controller apparently vary in some manner that I was never able to determine. The CorComp selection appears to work fine as either a single or double sided. The TI selection appears to work without fail on single-sided disks, but fails on some units with the double-sided option.

I don't have a fix for this within PRBASE/CREATE, but you can easily avoid the problem altogether (if you are even having it) by just initializing your data disk prior to it's first use, with some other disk manager program, just like old PRBASE 1.2.

MIS-ALIGNMENT OF COLUMNS IN TAB REPORTS: Some folks have written about problems with the underlining of the column header of the tab reports. The first thing to check is the output device name (see above). If this is all squared away and you are still having problems with your header, try using CREATE to work your way through the design of the problem report until it brings up your old header for changes. Retype the header, taking care to use the space bar to pass through all the white space in the column header. Don't use the right arrow key (FCTN-D)!!!! Using the space bar fills the header field, whereas using the right arrow will sometimes leave nulls and as such foul up your header alignment. Serves me right for clearing the screen with nulls instead of spaces.

FUTURE OF PRBASE: It's not news to many folks, but I am no longer working on any updates to PRBASE. I do still write a lot of letters answering questions on it's use, and just servicing the program in general. If a user needs help, I will try to provide. This still includes having the user send a problem disk for my examination.

A couple of folks have received the source code from me, and have undertaken some revisions. Mike Dodd of Oliver Springs, TN has gotten as far as to release version 2.1, which I understand will allow you to use standard TI I/O

to access the data disk: Mike's address is 116 Richard Drive, Oliver Springs, TN 37840. My hat is off to Mike, for working through my source code and sector madness.

Also, Barry Traver expressed some interest in revising the program so it could run on the MYARC 9640. I understood he and Peter Hoddie would be doing the work, but haven't heard how they are doing. Barry can be contacted at: 835 Green Valley Dr., Philadelphia, PA 19128, or as a SYSOP of the TI Forum on Compuserve. His ID is 70436,373.

BUYER'S GUIDE

The following information is provided as a service to our members. The items listed are for sale by the individuals indicated and are subject to prior sale. The group assumes no responsibility for items listed and makes no claims as to their condition or interface capability with the TI-99/4A computer. Only computer related items will be accepted for publication in this newsletter.

Oldies but Goodies Part 1 \$5 (cassette), Ghost Town Adventure (cassette, module not included) \$8; Modules:

Car Wars \$4, Chisholm Trail \$4, Hunt the Wumpus \$4, The Attack \$4, Tombstone City \$5, Munch Man \$5, Football \$6, Multiplication \$7. MANUALS INCLUDED!!! Call Kyle Sikorsky 743-7378 (Weekdays 5pm-10pm or Weekends 8:30pm-10:30pm).

TI-99/4A Console \$35 o.b.o. Call Ejaz 623-8257.

TI-99/4A Console, TI Joysticks, Thermal printer, Cassette Recorder, 12" TV(BW), all for \$125 o.b.o. Call Paul Garrison 747-3884(Days) or 573-0572(Evenings).

GramKracker 80K with GramKracker Utility Disks \$150, P-Code Card w/disks \$35, TI-99/4A Console (new still in box) \$40, Speech Synthesizer \$35; Modules: Chisholm Trail \$3, Zero Zap \$6, Music Maker \$7, Terminal Emulator II \$7, Burgertime \$5, MicroSurgeon \$8, Personal Record Keeping \$4, Personal Report Generator \$4, Disk Manager I \$3, Alpiner \$5, Navarone's Disk Fixer \$5, The Attack \$3, TI Logo \$8, Personal Real Estate \$4, Car Wars \$3; Books: The Best of 99'er \$10, The Best of TI 99/4A Cartridges \$2, The Best Texas Instruments Software \$2. Call Ed Hallett 889-5525, all offers considered.

TI-99/4A Console & Home Budget Management \$35. Call Darlene Webb 885-0347.

TI-99/4A Console \$35. Call John Hedspeth 885-0859 or 745-7253 (work).

Teknika 13" Color Monitor Model MJ-22, RGB/Composite, TI compatible, not Geneve compatible, used 6 months, \$175, Box Car RS232/PID Port Stand Alone \$40, Editor Assembler \$15, Peripheral Expansion Box w/1 SSSD CDC disk drive \$120, TI Silent 700 Terminal Printer (uses thermal paper - 8+ rolls included) \$50, Home Budget Management \$3, Terminal Emulator II \$7, Personal Report Generator \$4, Personal Record Keeping \$4, Early Reading \$7, Personal Real Estate \$4, Munchman \$3. Call Jack or BJ 747-5046.

From SouthWest Ninety-Niners: Ribbons for Star Micronics NX-10 Printer \$4.50ea., "Best Newsletter" \$5ea., Overlays for TI-99/4A Computer, Cassette Cables \$3, Flip'n'File type Disk Holder \$5, Personal Record Keeping \$4, Tax Investment/Record Keeping \$3, Tombstone City \$3, Home Budget Management \$3, Addition \$5, Subtraction \$5, Multiplication \$5, Books: User's Guide to Texas Instruments Computer, Software & Peripherals \$2, Using & Programming the TI-99/4A \$6, Introduction to Assembly Language for the TI Home Computer by Molesworth \$4. Call Jack or BJ 747-5046.

NEW LISTING OF GROMS FROM TEXAS INSTRUMENTS.....

THE FOLLOWING IS A LIST OF GROM CHIPS AVAILABLE FROM DEALER PARTS AT TEXAS INSTRUMENTS IN LUBBOCK, TEXAS. IN WRITING ADDRESS YOUR LETTER TO : TEXAS INSTRUMENTS, ATTN: DEALER PARTS, P.O. BOX 53, LUBBOCK, TX 79415 OR CALL: (806) 741-2265, 2268. THEY ARE A GREAT GROUP OF PEOPLE TO DEAL WITH AND ARE VERY HELPFUL TO USERS OF THE TI-99/4A.

THE LIST BELOW IS NOT IN ANY ORDER THAT I CAN DECIPHER, BUT IF YOU SEARCH BY THE NAME OF THE CARTRIDGE, AND LOOK AT THE CHIP(S) IN YOUR CARTRIDGE CAREFULLY, YOU SHOULD HAVE A GOOD IDEA WHAT THE PARTS WILL COST YOU. IN ORDER TO KEEP THE COST DOWN BY SHARING THE S/H YOU SHOULD CHECK WITH OTHERS IN THE GROUP TO TAKE ADVANTAGE OF MUTUALLY SHARED EXPENSES.

THEY WILL BILL YOU, IF YOU INDICATE THAT YOU PREFER TO BE BILLED WITH THE SHIPMENT. THE TIME ALLOWED FOR PAYMENT IS 30 DAYS. THEY TRUST US, SO DON'T ABUSE THIS TRUST PLEASE. I HAVE REPAIRED EXTENDED BASIC, EDITOR ASSEMBLER, SOCCER, PLATO, AND OTHER CARTRIDGES, AS WELL AS MADE SOME NEW ONES THAT COULD NOT BE EASILY ACQUIRED I.E: EDITOR ASSEMBLER, AND THE TI DIAGNOSTIC CARTRIDGE. I HAVE THE FEELING THAT EVEN THOUGH TI SENT ME THIS NEW LIST, IT IS NOT COMPLETE. IF YOU WOULD LIKE TO BE SURE, IT IS BEST TO CONTACT THEM. ONE LAST NOTE, COUNT THE GROMS IN YOUR CARTRIDGE, AND THEN SEARCH THE LIST AGAIN, FOR EXAMPLE MULTIPLAN HAS 5 GROMS, AND 3 ARE IN ONE AREA AND 2 IN ANOTHER ON THIS LIST.

JOHN F. WILLFORTH 12/87

1015960-1007	PHYSICAL FITNESS	3.60	1015960-2004	DIAGNOSTIC	5.40
1015960-2032	SPEECH	3.80	1015960-0024	DEMONSTRATION	4.00
1015960-0075	SECURITIES ANALYSIS	3.80	1015960-0025	DEMONSTRATION	3.60
1015960-0074	SECURITIES ANALYSIS	3.80	1015960-0027	DEMONSTRATION	3.60
1015960-0076	SECURITIES ANALYSIS	3.80	1015960-1026	DEMONSTRATION	3.60
1015960-0077	SECURITIES ANALYSIS	3.80	1015960-1001	EARLY LEARN FUN	3.60
1015960-1060	PERSON RECORD.KEEP	3.80	1015960-1002	EARLY LEARN FUN	3.60
1015960-1061	PERSON RECORD.KEEP	3.80	1015960-1012	BEGINNING GRAMMAR	3.60
1015960-1062	PERSON RECORD.KEEP	3.80	1015960-1013	BEGINNING GRAMMAR	3.60
1015960-1063	PERSON RECORD.KEEP	3.80	1015960-0013	BEGINNING GRAMMAR	4.00
1015960-0064	STATISTICS	3.60	1015960-1014	BEGINNING GRAMMAR	3.60
1015960-0065	STATISTICS/8MU	3.60	1015960-0011	NUMBER MATH	3.80
1015960-0066	STATISTICS	3.60	1015960-1019	VIDEO GRAPH	3.80
1015960-0067	STATISTICS	3.60	1015960-0017	HOME FIN. DECISION	3.80
1015960-0068	STATISTICS	3.60	1015960-1018	HOME FIN. DECISION	3.80
1015960-0069	EARLY READING	3.80	1015960-1015	HOME BUDGET	3.80
1015960-0070	EARLY READING	3.80	1015960-1016	HOME BUDGET	3.80
1015960-0072	EARLY READING	3.80	1015960-0022	VIDEO CHESS	3.80
1015960-1071	EARLY READING	3.80	1015960-0023	VIDEO CHESS	3.80
1015960-1073	EARLY READING	3.80	1015960-1020	VIDEO CHESS	3.80
1015960-1092	TAX/INVEST/RCD.KEEP	3.60	1015960-1021	VIDEO CHESS	3.80
1015960-1093	TAX/INVEST/RCD.KEEP	3.60	1015960-2009	FOOTBALL	3.80
1015960-1095	TAX/INVEST/RCD.KEEP	3.60	1015960-2010	FOOTBALL	3.80
1015960-1035	VIDEO GAMES	3.80	1015960-0008	PHYSICAL FITNESS	3.80
1015960-1036	VIDEO GAMES	3.80	1015960-0136	ADD/SUBTRACT 1	3.80
1015960-1046	MUSIC MAKER	3.80	1015960-0137	ADD/SUBTRACT 2	3.80
1015960-0107	MUSIC MAKER	3.80	1015960-0139	ADD/SUBTRACT 2	3.80
1015960-0108	MUSIC MAKER	3.80	1015960-0139	ADD/SUBTRACT 2	3.80
1015960-0116	NUTRITION	3.80	1015960-0140	MULTIPLICATION 1	3.80
1015960-0117	NUTRITION	3.80	1015960-0141	MULTIPLICATION 1	3.80
1015960-0118	NUTRITION	3.80	1015960-0142	MULTIPLICATION 1	3.80
1015960-0119	NUTRITION	3.80	1015960-0121	A-MAZE-ING	3.60
1015960-1120	NUTRITION	3.80	1015960-0127	ATTACK	4.00
1015960-0102	REAL ESTATE	3.80	1015960-0152	BLASTO	3.80
1015960-0103	REAL ESTATE	3.80	1015960-0128	BLK/JACK/POKER	3.80
1015960-0104	REAL ESTATE	3.80	1015960-0131	SPELL/EMULATOR 2	3.80
1015960-0105	REAL ESTATE	3.80	1015960-0132	SPELL/EMULATOR 2	3.80
1015960-0091	HUNT THE WUPPUS	3.80	1015960-0129	EMULATOR 2	3.80
1015960-0097	SOCCER	3.60	1015960-0029	PRESCHOOL	4.20
1015960-0098	SOCCER	3.60	1015960-0130	EMULATOR 2	3.80
1015960-0101	MIND CHALLENGER	4.00	1015960-0130	EMULATOR 2	3.80
1015960-1122	EXTENDED BASIC	3.60	1015960-0212	ZEROZAP	3.80
1015960-1113	EXTENDED BASIC	3.60	1015960-0214	HANGMAN	3.80
1015960-1114	EXTENDED BASIC	3.60	1015960-0153	CONNECT 4	3.80
1015960-3115	EXTENDED BASIC	3.60	1015960-0148	YANTZEE	3.80
1015960-0115	EXTENDED BASIC	4.00	1015960-0169	TILGGO	4.20
1015960-0134	ADD/SUBTRACT 1	3.80	1015960-0170	TILGGO	4.20
1015960-0135	ADD/SUBTRACT 1	3.80	1015960-0171	TILGGO	4.20
1015960-0352	MULTIPLAN	3.60	1015960-5254	MUNCHMOBILE	3.60
1015960-0353	MULTIPLAN	3.60	1015960-5255	MUNCHMOBILE	3.60
1015960-0298	ALIGATOR MIX	3.80	1015960-5216	BASEBALL	3.60
1015960-0299	ALIGATOR MIX	3.80	1015960-5218	BASEBALL	3.60
1015960-0332	ALIEN ADDITION	3.80	1015960-5231	SPACE BANDIT	3.60
1015960-0333	ALIEN ADDITION	3.80	1015960-5232	SPACE BANDIT	3.60
1015960-0301	DEMOLITION DIVISION	3.80	1015960-5237	SEWERMANIA	3.60
1015960-0345	DRAGON MIX	3.80	1015960-5238	SEWERMANIA	3.60
1015960-0346	DRAGON MIX	3.80	1015960-5221	BIG FOOT	3.60
1015960-0303	MINUS MISSION	3.80	1015960-5226	PETEOR BELT	3.60
1015960-0304	MINUS MISSION	3.80	1015960-5242	SUPERFLY	3.60
1015960-0347	METEOR MULTIPLY	3.80	1015960-5243	SUPERFLY	3.60
1015960-0348	METEOR MULTIPLY	3.80	1015960-5243	TERRY TURTLE	3.80
1015960-0405	PLATO INTERPRETER	3.60	1015960-5257	TERRY TURTLE	3.80
1015960-0404	PLATO INTERPRETER	3.60	1015960-5259	1'M HIDING	3.80
1015960-0407	PLATO INTERPRETER	3.60	1015960-5278	1'M HIDING	3.80
1015960-0408	MOON MINE	3.60	1015960-5247	HONEY HUNT	3.60
1015960-0466	MOON MINE	3.60	1015960-5248	HONEY HUNT	3.60
1015960-0467	MOON MINE	3.60	1015960-5249	HONEY HUNT	3.80
1015960-0468	MOON MINE	3.60	1015960-5267	SOUND TRACK	3.60
1015960-0469	MOON MINE	3.60	1015960-0496	MASH	3.60
1015960-0470	MOON MINE	3.60	1015960-0497	MASH	3.60
1015960-0326	LOOO/SNO/ELF/HOP	3.60	1015960-0498	MASH	3.60
1015960-5253	MUNCHMOBILE	3.60	1015960-0498	MASH	3.60

1015960-0222	SPELLING 3	3.80
1015960-0223	SPELLING 3	3.80
1015960-0224	SPELLING 3	3.80
1015960-0225	SPELLING 4	3.80
1015960-0226	SPELLING 5	3.80
1015960-0227	SPELLING 6	3.80
1015960-0258	TOUCH TYPING	3.80
1015960-0259	TOUCH TYPING	3.80
1015960-0260	TOUCH TYPING	3.80
1015960-0247	READING FLIGHT	3.80
1015960-0248	READING FLIGHT	3.80
1015960-0249	READING FLIGHT	3.80
1015960-0250	READING FLIGHT	3.80
1015960-0251	READING FLIGHT	3.80
1015960-0252	MATH GAMES 2	3.80
1015960-0253	MATH GAMES 2	3.80
1015960-0409	MATH GAMES 3	3.80
1015960-0410	MATH GAMES 3	3.80
1015960-0411	MATH GAMES 3	3.80
1015960-0412	MATH GAMES 3	3.80
1015960-0413	MATH GAMES 3	3.80
1015960-0401	MATH GAMES 4	3.80
1015960-0402	MATH GAMES 4	3.80
1015960-0403	MATH GAMES 4	3.80
1015960-5281	TREASURE ISLE	3.60
1015960-5282	TREASURE ISLE	3.60
1015960-5283	TREASURE ISLE	3.60
1015960-5234	WORD INVASION	3.60
1015960-0445	FACE MAKER	3.60
1015960-0446	FACE MAKER	3.60
1015960-5224	STORY MACHINE	3.60
1015960-5225	STORY MACHINE	3.60
1015960-5212	WORD RADAR	3.60
1015960-5286	PIRATE'S ISLE	3.60
1015960-5287	PIRATE'S ISLE	3.60
1015960-5288	PIRATE'S ISLE	3.60
1015960-5289	PIRATE'S ISLE	3.60
1015960-5290	PIRATE'S ISLE	3.60
1015960-5244	DEMON ATTACK	3.60
1015960-5245	DEMON ATTACK	3.60
1015960-5246	DEMON ATTACK	3.80
1015960-5310	MICROSURGEON	3.80
1015960-5311	MICROSURGEON	3.80
1015960-5321	FATHOM	3.80
1015960-5322	FATHOM	3.80
1015960-5223	FATHOM	3.80
1015960-5227	MOONSWEeper	3.60
1015960-5228	MOONSWEeper	3.60

1041336	RAM EXPANSION	2.50
1040378	DISK CONTROLLER	2.50
1037105	RS-232 INTERFACE	2.50
1039330	MEMORY EXPANSION	2.50
1039314	PROJECT 360 CARD	2.50
1039437	INTER DIGRAM P-BOX	2.50
1039304	POWER SUPPLY	2.50
1039363	INTERCON. ADAPTER	2.50
1039340	DISK CONT. CARD	2.50
1039308	RS-232 INF. CARD	2.50
1039317	P-CODE PCB	2.50
1049716-1	CONSOLE MAN. 99/4A10.00	15.00
1049717-1	CONS./PEB MAN.	15.00
1039311	INTER ADAPTOR EX BX	2.50

1015960-0490	STAR TREK	3.60
1015960-0491	STAR TREK	3.60
1015960-5284	BUCK ROGERS	3.80
1015960-5285	BUCK ROGERS	3.80
1015960-5296	CONGOBONGO	3.80
1015960-5297	CONGOBONGO	3.60
1015960-5219	BURGERTIME	3.60
1015960-5220	BURGERTIME	3.60
1015960-0327	READING RAINBOW	4.00
1015960-0328	READING RAINBOW	4.00
1015960-0329	READING RAINBOW	4.00
1015960-0330	READING RAINBOW	4.00
1015960-0331	READING RAINBOW	4.00
1015960-0379	READING CHEERS	4.00
1015960-0380	READING CHEERS	4.00
1015960-0381	READING CHEERS	4.00
1015960-0382	READING CHEERS	4.00
1015960-0383	READING CHEERS	4.00
1015960-0374	READING ADVENTURE	3.80
1015960-0375	READING ADVENTURE	3.80
1015960-0376	READING ADVENTURE	3.80
1015960-0377	READING ADVENTURE	3.80
1015960-0378	READING ADVENTURE	3.80
1015960-0384	READING TRAIL	3.80
1015960-0306	READING RALLY	3.80
1015960-0307	READING RALLY	3.80
1015960-0308	READING RALLY	3.80
1015960-0309	READING RALLY	3.80
1015960-0236	DIVISION 1	3.80
1015960-0237	DIVISION 1	3.80
1015960-0238	DIVISION 1	3.80
1015960-0239	DIVISION 1	3.80
1015960-0319	NUMBERS 1	3.80
1015960-0320	NUMBERS 1	3.80
1015960-0321	NUMBERS 1	3.80
1015960-0322	NUMBERS 1	3.80
1015960-0323	NUMBERS 2	3.80
1015960-0325	NUMBERS 2	3.80
1015960-0188	TOMBSTONE CITY	3.80
1015960-0211	INVADERS	3.80
1015960-0205	CARWARS	3.80
1015960-1204	EDITOR ASSEMBLER	3.60
1015960-1341	ALPINE	4.00
1015960-0341	ALPINE	4.00
1015960-0342	ALPINE	4.00
1015960-0343	ALPINE	4.00
1015960-0344	ALPINE	3.80
1015960-0215	MINI MEMORY	3.80
1015960-0154	ADVENTURE	3.80
1015960-0229	TUNNEL OF DOOM	3.60
1015960-0230	TUNNEL OF DOOM	3.60
1015960-0231	TUNNEL OF DOOM	3.60
1015960-0232	TUNNEL OF DOOM	3.60
1015960-0233	TUNNEL OF DOOM	3.60
1015960-0189	READING FUN 2	3.80
1015960-0190	READING FUN 2	3.80
1015960-0191	READING FUN 2	3.80
1015960-0192	READING FUN 2	3.80
1015960-0193	READING FUN 2	3.80
1015960-0111	PERSONAL REPORT GEN.	3.80
1015960-0112	PERSONAL REPORT GEN.	3.80
1015960-0314	READING ON	3.60
1015960-0315	READING ON	3.60
1015960-0316	READING ON	3.60
1015960-0317	READING ON	3.60
1015960-0318	READING ON	3.60
1015960-0216	READING ROUNDUP	3.80
1015960-0217	READING ROUNDUP	3.80
1015960-0218	READING ROUNDUP	3.80
1015960-0219	READING ROUNDUP	3.80
1015960-0220	READING ROUNDUP	3.80
1015960-0305	READING RALLY	3.80

1015960-0385	READING TRAIL	3.80
1015960-0386	READING TRAIL	3.80
1015960-0387	READING TRAIL	3.80
1015960-0389	READING POWER	3.80
1015960-0390	READING POWER	3.80
1015960-0391	READING POWER	3.80
1015960-0392	READING POWER	3.80
1015960-0393	READING POWER	3.80
1015960-0394	READING WONDER	3.80
1015960-0395	READING WONDER	3.80
1015960-0396	READING WONDER	3.80
1015960-0397	READING WONDER	3.80
1015960-0398	READING WONDER	3.80
1015960-0268	MATH GAMES-A	4.20
1015960-0270	MATH GAMES-A	4.20
1015960-0271	MATH GAMES-A	4.20
1015960-0272	MATH GAMES-B	4.20
1015960-0273	MATH GAMES-B	4.20
1015960-0274	MATH GAMES-B	4.20
1015960-0275	MATH GAMES-B	4.20
1015960-0264	MATH ACTIVITIES	4.20
1015960-0265	MATH ACTIVITIES	4.20
1015960-0266	MATH ACTIVITIES	3.80
1015960-0267	MATH ACTIVITIES	3.80
1015960-0404	MATH GAMES 4	3.80
1015960-0262	MATH GAMES 4	3.80
1015960-0263	MATH GAMES 6	3.80
1015960-0234	DISK MANAGER 2	3.60
1015960-0235	DISK MANAGER 2	3.60
1015960-0280	HILLKEN/ADDITION	3.80
1015960-0278	HILLKEN/COMMON	3.60
1015960-0282	HILLKEN/MULTIPLY	3.60
1015960-0286	HILLKEN/FRACTION	3.80
1015960-0287	HILLKEN/FRACTION	3.80
1015960-0288	HILLKEN/DECIMAL	3.60
1015960-0290	HILLKEN/PERCENT	3.80
1015960-0284	HILLKEN/ARITH. LAWS	3.80
1015960-0276	HILLKEN/MANAGER	4.20
1015960-0255	LOGO!!	3.60
1015960-0256	LOGO!!	3.60
1015960-0257	LOGO!!	3.60
1015960-0261	CHISHOLM TRAIL	3.80
1015960-0295	PARSEC	3.80
1015960-0296	PARSEC	3.80
1015960-0297	PARSEC	3.80
1015960-0349	MULTIPLAN	3.60
1015960-0350	MULTIPLAN	3.60
1015960-0351	MULTIPLAN	3.60
1015960-0206	ATTENDANCE RECORD	4.00
1015960-0208	ATTENDANCE RECORD	4.00
1015960-0209	ATTENDANCE RECORD	4.00
1015960-0210	ATTENDANCE RECORD	4.00
1015960-0163	CLASS DATA	4.00
1015960-0164	CLASS DATA	4.00
1015960-0165	CLASS DATA	4.20
1015960-0166	CLASS DATA	4.20
1015960-0167	CLASS DATA	4.20
1015960-0143	SCHOOL MAILER	4.00
1015960-0144	SCHOOL MAILER	4.00
1015960-0145	SCHOOL MAILER	4.00
1015960-0146	SCHOOL MAILER	4.00
1015960-0194	PAYROLL ASSIST.	4.00
1015960-0195	PAYROLL ASSIST.	4.00
1015960-0196	PAYROLL ASSIST.	4.00
1015960-0197	PAYROLL ASSIST.	4.00
1015960-0198	PAYROLL ASSIST.	4.00
1015960-0177	PROPERTY MGR.	4.00
1015960-0178	PROPERTY MGR.	4.00
1015960-0179	PROPERTY MGR.	4.00
1015960-0147	A. ACCOUNTING	4.00
1015960-0148	A. ACCOUNTING	4.00
1015960-0149	A. ACCOUNTING	4.00