

Chapter 1

Introduction

In this first lesson you should understand W.D. Gann, the man. Who the man was, what he did, and how he did it. I have included below two articles: The Remarkable W.D. Gann written by John J. Gann, Jr., who was W.D. Gann's grandson and another article W.D. Gann A Legend written by Les Clemens. Both articles are excellent.

Your assignment is to read these two articles. It is the goal of this course to make each of you into a master trader like Gann. To do this we must build upon a strong base. This lesson is part of that strong base, which is an understanding of W.D. Gann.

I know that many of you have been trading and studying Gann techniques for 10 to 20 years. If any of you have anything you want to ask or comment about chapter 1, please e-mail us at chapter1@tradersworld.com. This is a 4 month class. The market has changed a lot since Gann was trading. The volatility has increased 10 times. This puts us under extreme stress. Some of us are behind the computer screen all day long. The combination of the energy draining electromagnetic waves from the computer and the stress or trading dramatically hurts our thinking ability. To help with this I use and recommend to others a BioElectric Shield.

Read the article I put in [Data Broadcasting's Exchange Newsletter](#).

Also listen to these testimonials:

"Really amazing. After years of suffering fatigue from fluorescent lights and computers, I suddenly have energy and ambition! Before, many days I just went home and went to bed. In the past month since I've been wearing the Shield, I've finally bought a computer for myself to use at home. Before the Shield, I would have never thought of getting a computer because I couldn't even recover from my daily use of computers at work. Now I can go home and work on my machine for an hour or so and many evenings still have enough energy to study for another hour!"

A. Hill, Lab Tech./UCLA

"Overall I feel balanced. I used to feel very drained, especially after working at my computer for more than an hour. I now feel a sense of comfort. I have been wearing my Shield for three years. I am always surrounded by computers. One day I forgot to wear it and wondered why I felt so tired. Now my motto is, "Don't leave home without it!"

K. Thies, Graphics Designer/Publicist, CO

"After working with computers all day, when I would get home at night I was exhausted. With the Shield, I am now alert and able to enjoy my evenings! Difficult situations bother me much less..it's as if the negatively passes over me."

J. Rand , Video Tape Editor

"Since purchasing a Shield, I have noticed an improvement in my energy level. As a writer/author, I sit in front of a computer several hours a day. After about an hour, my ears start to feel full and I lose my hearing, necessitating leaving the computer. Even a monitor screen didn't help. After getting a Shield I was working on my computer without the Shield, when my ears began to feel full. I put on my Shield and within minutes my ears cleared. Now every time I sit in front of the computer, I make sure I am wearing my Shield." *K. Montgomery, Author*

"I am a programmer, working 7-8 hours per day in front of a screen. If I go on holiday, when I come back, by the end of the first day I'm drained and feel nauseous. But, when I wear a Shield I feel fine! Also, I really can go into shopping malls and stay as long as I want without feeling stressed and weak." *Rod Ellis, London*

"Generally I'm better able to concentrate and get my work done. I have 3 personal computers on my desk running all day. Often if I'm not wearing my Shield, I can't concentrate a full day and often get a headache."

J.Arnaw, Technical Writer, CA

"I have been wearing my Shield for around 1 year now. I originally bought the Shield due to "unfavorable" work conditions-air conditioning, no natural light, PC's everywhere . . . it was draining me and from about 2pm every day I would have little energy, feel dizzy and feel generally drained.I noticed an immediate effect with the Shield - I had energy again! And no dizzy spells! Definitely a worthwhile investment and I wouldn't do without it for the world. We returned to the Mind Body Spirit Festival this year so my partner could buy one too." *D. Houghton, Leicester, England*

To order a shield [click here](#).

There is a 30 day money back guarantee.

Another thing I recommend for this class are all the back-issues of Traders World on CD. There are 27 issues which contain dozens of article explaining how to use Gann Trading Techniques. To order this CD [click here](#).

We will go over a new chapter every week. There are 22 chapters. There will also be a surprise quiz every so often. There will also be a final test at the end of the course and you will receive a certificate that proves you successfully completed this important trading course.

We hope at the end of the class that everyone has learned enough to trade the Gann Masters way.

Welcome to the class.

Let's work hard to become successful traders.

Larry Jacobs

The Remarkable W.D. Gann

by John L. Gann, Jr.

If you had been a businessman traveling across Texas in 1891, you might have bought a newspaper and a couple of cigars from a tall, lanky 13-year-old selling them on your train. And as you talked with your fellow travelers about investments, you might have noticed the youth eavesdropping intently on your conversation.

If you had asked him, the boy might have told you his name was Willy and, yes, he was interested in commodities. His dad was a farmer in Angelina County, and just about everyone he knew was as well. They were all concerned about the prices their cotton would bring. And had you inquired whether young Willy also wanted to till the East Texas soil when he got older, he might have said no, he didn't think so: he wanted to be a businessman.

"Well, good luck, young Willy," you might have said. "Maybe you'll have your own business some day, maybe you'll even be famous. Who knows? No one can predict the future."

The young eavesdropper going up and down the aisles of that train was William Delbert Gann. Was it really true, he might have wondered, that no one can predict the future?

W.D Gann was born on a farm some seven miles outside of Lufkin, Texas, on June 6, 1878.

He was the firstborn of 11 children two girls and eight boys of Sam Houston Gann and Susan R. Gann. The Ganns lived in a too small house with no indoor plumbing and with not much of anything else. They were poor, and young Willy walked the seven miles into Lufkin for three years to go to school.

But the work he could do on the farm was more important to the family, so W.D. never graduated from grammar school or attended high school. As the eldest boy, he had a special responsibility, and those years working on the farm may have been the beginning of his lifelong dedication to hard work. His religious upbringing as a Baptist may also have had something to do with it, for his faith stayed with him throughout his life as well.

A few years later W.D. worked in a brokerage in Texarkana and attended business school at night. He married Rena May Smith, and two daughters, Macie and Nora, were born in the first few years of the new twentieth century. W.D. made the fateful move to New York City in 1903 at the age of 25.

Working most likely at a major Wall Street brokerage, W.D. made other changes in his life as well. He divorced his Texas bride and in 1908 at the age of 30 married a 19-year-old colleen named Sarah Hannify. W.D. and Sadie had two children--Velma, born in 1909 and W.D.'s only son, John, who arrived six years later. In addition, Macie and Nora came to live with their father and were raised in New York by their Irish stepmother.

During the First World War the family moved from Manhattan to Brooklyn first to Bay Ridge, then to Flatbush. W.D. reportedly predicted the November 9, 1918, abdication of the Kaiser and the end of the war. But it was after the armistice that the fortunes of the Ganns of Brooklyn took their most dramatic turn. The W.D. that traders know today emerged in the Roaring Twenties.

In 1919 at the age of 41, W.D. Gann quit his job and went out on his own. He spent the rest of his life building his own business.

He began publishing a daily market letter, the Supply and Demand Letter. The letter covered both stocks and commodities and provided its readers with annual forecasts. Forecasting was an activity with which W.D. had become fascinated.

The young business prospered, and three years later W.D. Gann became a homeowner, buying a small house on Fenimore Street in his adopted home of Brooklyn. The market letter led to more ambitious

publishing. In 1924 W.D.'s first book, *Truth of the Stock Tape*, was published.

A pioneering work on chart reading, it is still regarded by some as the best book ever written on the subject. An individualist and ambitious hard worker, W.D. self-published *Truth* through his new Financial Guardian Publishing Company. He personally wrote his own ads to market it and negotiated with bookstores to carry it.

Truth as praised by *The Wall Street Journal* and sold well for years. Some consider it the best of his many books. For a first effort it was a significant accomplishment.

His market forecasts during the twenties were reportedly 85 percent accurate. But W.D. didn't confine his prognostications to prices. It was widely reported he predicted the elections of Wilson and Harding and, indeed, of every president since 1904.

At age 49, W.D. Gann wrote what is perhaps his most unusual book, *1927 Tunnel Through the Air*. It is a prophetic work of fiction, not a genre every Wall Street analyst dabbles in. But W.D. Gann was one of a kind. The book is perhaps best known for having predicted that attack on the United States by Japan and an air war between the two powers. *Tunnel* may have had little to offer investors, it was well-publicized and enhanced its author's growing reputation.

The market in the Twenties seemed to be defying the law of gravity, but W.D. Gann didn't think it could last forever. In his forecast for 1929, he predicted the market would hit new highs until early April, then experience a sharp break, then resume with new highs until September 3. Then it would top and afterward would come the biggest crash in its history. We all know what happened.

W.D. prospered during the Depression, which he predicted would end in 1932. He acquired seats on various commodities exchanges, traded for his own account, wrote *Wall Street Stock Selector* in 1930 and *New Stock Trend Detector* in 1936.

He continued making remarkably accurate forecasts as well as some less successful ones like the electoral defeat of FDR. He developed a new interest in investing in Florida real estate. He became a small-scale home-builder in Miami as well as the owner of a block of stores on the Tamiami Trail.

He also became airborne. He bought a plane in 1932 so he could fly over crop areas making observations to use in his forecasts. He hired Elinor Smith, a noted 21-year-old aviator, to fly him around. The novelty of his high-flying research--W.D. was the first to study markets in this way--helped keep him in the spotlight.

W.D.'s son John also went into the securities business in 1936 at the age of 21. A year later he went to work for his dad until in 1941 his Uncle Sam announced he had plans for the young man in Europe.

Back in Brooklyn, Sadie had health problems for some time and died at age 53 in 1942. Then after 20 years on Fenimore Street, an aging W.D. Gann moved to Miami for reasons both of health and personal preference. His *How to make Profits in Commodities* came out the same year.

He kept his business in New York, relying on his long-time personal secretary. In Miami he continued studying the market, trading, real estate investing, and instructing students. The next year at the age of 65, when most are thinking retirement, W.D. decided he'd get married and did, to a much younger woman.

Son John worked on W.D.'s business in New York briefly after the war, then left to pursue his own interests in the industry. The two differed in their approach to the market. John L. Gann pursued a successful lifetime career with Wall Street's major brokerage house until his passing in 1984.

The post-war years saw W.D. start taking it easier. He published *45 Years in Wall Street* in 1949. He sold his business to Joseph Lederer, a fellow student of the market. Around the same time he also separately sold the rights to all his books to Edward Lambert. He continued, however, to study, teach, and trade. He was made an honorary member of the International Mark Twain Society in 1950.

In 1954 he suffered a heart attack. A year later advanced stomach cancer was discovered. The doctors

operated, but W.D. failed to recover. He died in June, 1955, at the age of 77.

He was buried with his second wife in Green-Wood Cemetery in Brooklyn at a location that looks toward Wall Street. It was a fitting location since he had studied the Street all his adult life.

In 1995, 40 years after his passing, William D. Gann is still talked about, written about, and studied avidly. His books are back in print and are sold by Trader's World and Lambert-Gann Publishing Company. It's an extraordinary testimonial to his work and one that even W.D. couldn't have predicted. Or could he? What lessons might there be in this remarkable man's life?

First is an affirmation of the American Dream. William Delbert Gann of Lufkin, Texas, started with nothing. He and his family had no money, no education, and no prospects. But less than 40 years after overhearing businessmen talk on railroad cars in Texas, W.D. Gann was known around the world.

Second, hard work pays. W.D. rose early, worked late, and approached his business with great energy. Virtually all his education was self-administered. This teacher, writer, and prescient forecaster had a third-grade formal education. But he never stopped reading.

Third, unconventional thinking may have its merits. W.D. was intellectually curious to an extraordinary degree. He was unafraid of unorthodox ideas, whether in finance or in other areas of life. He wasn't always right--none of us are--but he dared to pursue a better idea.

Fourth, there may be something to that clean living business after all. A conservative Baptist, W.D. didn't smoke, drink, play cards, or dance. He was serious in demeanor and a conservative dresser, although he lightened up somewhat in his later years. He respected the value of a dollar and was prudent in his personal spending. Not every internationally acclaimed seer would continue to live in a modest house in Brooklyn.

Fifth, faith helps. W.D. studied the Bible all his life. It was his Book of Books. His own last book, *The Magic Work*, published in 1950, strongly reflects this devotion.

And finally, the only lesson for traders I will venture to offer. W.D. never stopped studying the market. Even after his forecasts happened, even after he achieved international acclaim. Although he believed in cycles, he also knew that markets are always changing and that decisions must be made based on today's conditions, not yesterday's.

W.D. might have rested on his laurels. But he kept studying and seeking greater understanding. If he couldn't afford to stop, can any trader afford to do so?

John L. Gann Jr., is the grandson of W.D. Gann. Most of the information in this article comes from W.D. Gann's son, the late John L. Gann, to whom this article is dedicated. The information herein is believed to be correct but no assurance of accuracy is offered.

W.D. Gann a Legend

by Les Clemens

W.D. Gann grew up around cotton warehouse where cotton was king.

William Delbert Gann was born June 6, 1878, in Lufkin, Texas, to

Sam H. and Susan R. Gann, immigrants to Texas from the British Isles. Lufkin is midway between Houston and Texarkana. This part of Texas is cotton country and Gann's parents lived on a Neches River bottom cotton ranch near Lufkin. He grew up around the cotton warehouses in Angelina County where cotton was king. W. D. Gann was raised in a very strict Methodist church family. His mother, a very religious person, encouraged him to read the Bible at a very early age, and in fact, wanted him to become a minister. Gann was not sure he wanted to become a minister, but studying the Bible was certainly easier than working in the cotton fields, as was his father's wish. He attended church every Sunday with his parents and as he listened to the sermons found his interpretation of the Bible scriptures to differ from the minister's. In the Bible he discovered time cycles, repetition of important numbers, and references to the wise men following the stars. Also, that it was written in veiled language that made interpreting the real meaning difficult. Since Gann had a photographic memory, by age 21 he had nearly memorized the Bible.

During his school years Gann excelled in mathematics and was generally called as a gifted mathematician. His tremendous appetite for knowledge and his open-minded attitude led him into many different fields of study that eventually resulted in discoveries in the markets that would otherwise have been overlooked. He completed high school in a time when most children were only able to attend school through the third or fourth grade.

As a teenager, Gann liked to be called W. D., and he used these initials the rest of his life. W. D. pestered his parents until they relented and signed a minor release form that he needed to obtain a job. His first job was that of a News Butcher on the passenger train between Texarkana and Tyler, Texas. This job required him to be quick-witted, aggressive, and able to deal with all kinds of people. During his teen years, he worked in the cotton warehouses in Lufkin and Texarkana, Texas. While working in the cotton warehouse, he was introduced to commodity trading.

In 1902, at age 24, W. D. Gann made his first commodity trade in cotton, the market he knew best. The small profit from that trade marked the beginning of what was to become one of the most remarkable and legendary careers the speculative markets have ever known. Over the next 53 years, Gann took over \$50,000,000 from the markets. It has been reported by a man who worked for Gann the last eight years of Gann's life, that approximately 1/3 of the money he made was for himself and the other 2/3 was for the accounts he supervised for clients. From that very first trade, it is believed Gann was using principles and techniques he continued using throughout his trading career. The notations on some of his early charts substantiated this belief. As time progressed, his trading methods were refined.

In 1906 W. D. went to Oklahoma City. He worked as a broker for a brokerage firm, trading for himself while handling large accounts for clients. He studied the cause of success and failure in the speculation of other traders. He found that over 90% of traders who enter the markets without knowledge and study usually lose in the end. Gann also lost a significant amount of money and admitted his trading was based on hope, greed, and fear. Later on, in his books and courses, he cautioned all traders about these emotions.

Early on, Gann began to note the periodical recurrence of rise and fall in stocks and commodities. This led him to conclude that natural law was the basis of market movements. He then devoted ten years to the study of natural law as applicable to the speculative markets. During that time he traveled to England, Egypt, and India to gain knowledge in ancient mathematics and astrology. In the British Museum in England he conducted extensive research on market cycles. In an Egyptian temple it is believed he found the basic construction of what was to become known as his Square of 9 Chart. After exhaustive research and investigation of the known sciences, he discovered the Law of Vibration enabled him to accurately determine the exact prices to which stocks or commodities would trade within a given time, and that each stock or commodity had its own rate of vibration.

At age 27, Gann was a well-known name in the Southwest. His views on the analysis of cotton prices were so well respected that a Texarkana newspaper, The Daily Texarkanian, ran a story on Gann's cotton

predictions.

In 1908, at age 30, Gann moved to New York and opened his own brokerage office at 18 Broadway. He began testing his theories and techniques in the market. On August 8, 1908, he made one of his greatest mathematical discoveries for predicting the trend of stocks and commodities. This was The Master Time Factor. Within a year, it became clear to others that his success was based on more than just luck. No one researched time cycles as extensively as Gann. His charts show the cycles with which he worked, went back to history's beginning, and bore no resemblance to other researcher's time cycle studies.

In October 1909, Richard D. Wyckoff, Owner and Editor of The Ticker and Investment Digest asked Gann for an interview to document his trading ability for one month. The interview was granted, and Gann's trades were monitored for 25 market days during the month of October in the presence of a Ticker representative. At that time the markets also traded on Saturday. Gann made 286 trades in various stocks, both long and short. There were 264 trades that resulted in profits and 22 in losses. 92.3% of the trades were profitable. The capital used doubled ten times resulting in 1000% gain on his original investment during those 25 trading days. What makes this even more phenomenal is that Gann did this with an average time between each trade of about twenty minutes. In one day Gann made 16 trades in the same stock, 8 of which were in either the top eighth or the bottom eighth of that particular swing. Such a performance is unparalleled in the history of Wall Street. As stated by James R. Keene, the famous speculator of that era, The man who is right 6 times out of 10 will make his fortune.

It seems a foregone conclusion that Gann was picking tops and bottoms with a high degree of accuracy. At this point of time, in 1909, he was only 31 years of age, so whatever methods he was using had already been discovered.

This biographer believes that after his sensational performance Gann regretted having granted the interview, as it was stated in the printed article that he did not know the results were to be published. When the article was printed in The Ticker Investment Digest, Gann was besieged with people asking how he was able to pick tops and bottoms as he had demonstrated. His only answer to them was he used The Law of Vibration to make all his calculations. At this juncture there were only two choices: 1) to give away his secret discoveries and risk destroying the markets, or 2) to detract from his method of picking tops and bottoms by writing books and courses about mechanical trading systems, the use of geometrical angles, the use of Time and Price Charts, such as the Octagon Chart (Square of 9), Master 12 Chart (Square of 144), Hexagon Chart (the cube), Square of 90, Square of 52, 360 Degree Circle Chart, and many other trading techniques.

If Gann had continued trading using only his method of picking tops and bottoms, without a doubt he would have become one of the wealthiest men in the world, and in so doing would have attracted too much attention. He would have been asked too many questions by traders and would have been compelled to explain. However, at certain times, he probably used his method to advantage. Gann had a profound understanding of natural law, so rather than place himself in an embarrassing situation, he chose to trade using his mechanical systems and other techniques he had developed. Also, having more capital than was required for a good living was not important to him, as he was more interested in the knowledge possessed by ancient civilizations and the occult sciences. Gann understood how the Laws of Nature controlled human beings and, therefore, he understood the markets, because the markets are nothing more than an expression of the actions of human beings.

The two previous paragraphs are my belief. You may agree or disagree, but before you arrive at a conclusion, carefully study Gann's 1909 trading demonstration. He made 286 trades in 25 days, which is 11 trades per day. To do this, you must pick the tops and bottoms on a short intraday time period.

If what I believe is true, it is very sad to think that a genius individual such as W. D. Gann, had to disguise the truth throughout his life, with a smoke screen of many trading methods and techniques.

In 1918 his office address in New York was 81 New Street and in the early 1920's was at 49 Broadway. Over the years, Gann maintained several offices in New York all located on Wall Street with the address numbers of 78, 80, 82, 88, 91, 93 and 99.

At the height of Gann's career, he employed 35 individuals who made charts of all kinds, did analytical research at his direction, and performed many duties involved with his various publications and services. The name of one of his businesses was W. D. Gann Scientific Service, Inc., and the other, initiated in 1919, was W. D. Gann Research, Inc. The firms published the following Supply and Demand Letters: Daily Stock Letter, Tri-Weekly Stock Letter, Weekly Stock Letter, Daily Commodity Letter, Tri-Weekly Commodity Letter, and Weekly Commodity Letter. Telegraph Service was all offered as follows: Daily Telegraph Service on Stocks, Daily Telegraph Service on Cotton, Daily Telegraph Service on Grain, and Telegrams on important Changes Only, on Stocks or Commodities. Published under Annual Forecasts were: Annual Stock Forecast, Annual Cotton Forecast, Annual Grain Forecast, Annual Rubber Forecast, Annual Coffee, Sugar and Cocoa Forecast. Supplements to all Forecasts were issued and mailed on the first of each month. Special Forecasts on stocks or other commodities were made on request. Also offered were daily, weekly, monthly, quarterly, and swing charts on stocks and commodities. Gann taught advanced courses of instruction entitled Master Forecasting Method, at a cost of \$2,500, and New Mechanical Method and Trend Indicator, at a cost of \$5,000, to those who want it for their own use and will not publish, sell, or teach it to others. It is too valuable to be spread broadcasted. The cost of these courses and personal instruction in today's economics would be \$25,000 to \$50,000, or more.

As early as 1923, Gann offered a service entitled "The Busy-Man's Service." This was a service for professional and businessmen where Gann supervised their trading accounts by advising them what and when to buy and sell. In later years the name of this service was changed to "Personal Service." The cost of this service was on a 1 month, 3 months, 6 months, or annual basis, or on a Part-of-Profit Plan where the monthly fee was smaller and Gann received 5% of the net profits. Under the Part-of-Profit Plan it was required that a minimum of 100 shares be traded. The clients were advised by telegram or letter.

An article in The Evening Telegram dated New York, Monday, March 5, 1923, used the words "prophet" and "mathematical seer" to describe Gann. It also stated his followers declared he was 85% correct in his forecasts. He predicted the election of Wilson and Harding using fortunate numbers and fortunate letters combined with cycles. He predicted the abdication of the Kaiser and the end of the war to the exact date six months in advance. His predictions were based on mathematics. He stated if he had the data he would use algebra and geometry to tell exactly by the theory of cycles when a certain thing is going to occur again. He further stated that there is no chance in nature, because mathematical principles of the highest order lie at the foundation of all things. The article pointed out that Gann received calls every day from prominent persons asking him to cast their horoscope. It also said he told politicians whether or not they would be elected and solved problems for clergymen, bankers, and statesmen.

In another article in the Morning Telegraph, dated Sunday, December 17, 1922, the Financial Editor, Arthur Angy, stated that W. D. Gann had scored another astounding hit in his 1922 stock forecast issued in December, 1921, I found his 1921 forecast so remarkable that I secured a copy of his 1922 stock forecast to prove his claims for myself. And now, at the closing of the current year of 1922, it is but justice to say I am more than amazed by the result of Mr. Gann's remarkable predictions based on pure science and mathematical calculations.

W. D. and his wife, Sadie H. Gann, had one son and three daughters born to their marriage. Their son, John L. Gann, was in partnership with his father for several years in the late 1930's and early 1940's, operating under the firm name of W. D. Gann & Son, Inc.

Apparently, the two personalities were not always compatible, as their association was ended in the mid 1940's. This writer has been told one of their main differences concerned astrology, as John did not believe astrology had any effect on market movements, or human behavior. This probably upset W. D. as he knew well the effect of planetary motion on the markets and the individual. Following the association with his father, John served as a broker for many years for the firm Sulzbacher, Granger & Co. in New York City. It is believed that John passed away in 1984.

For many years Gann maintained a home in Scarsdale, New York, which was, at the time, the estate bedroom community for New York City. In an article that appeared in the May 26, 1933 New York Daily Investment News, it was reported that Gann left New York in the first 1933 model Stinson Reliant airplane,

piloted by Flinor Smith, a woman aviator, to conduct an extensive tour of the country analyzing cotton, wheat, and tobacco crops, and business conditions. The airplane was equipped with navigation instruments, radio receiving equipment and extra-large fuel tanks that gave a flying range of 750 miles. It was powered with a Lycoming engine and cruised at 135 miles per hour. Gann was the first Wall Street advisor to use an airplane for studying market conditions so he could advise clients much faster of changing market conditions. During his trip he was a speaker to members of Kiwanis, Rotary, Chamber of Commerce, and other business organizations in various larger cities throughout the United States.

In 1935, Gann made an airplane trip to South America for studying crop conditions, and to gather information on the increase and production of cotton in Peru, Chili, Argentina, and Brazil. He logged 18,000 miles by air and another 1,000 miles by automobile.

In July of 1936 Gann purchased a specially built all metal airplane, which he named "The Silver Star," and used in making crop surveys. In July of 1939 he purchased a new Fairchild airplane for the same purpose.

Gann was a member of the Commodity Exchange, Inc. of New York, the New Orleans Cotton Exchange, the Rubber Exchange of New York, the Royal Economic Society of London, the American Economic Society, the Masonic Lodge, the Shrine, the Chicago Board of Trade, and was a devout Christian in the Methodist Church.

Gann had a winter home in Miami, Florida, and in the 1940's moved there on a full-time basis. His office was at 820 S. W. 26th Road in Miami. While in Florida, he continued his advisory services as well as teaching his commodity and stock market courses, either in person or by mail. By the late 1940's he had a recommended list of Books For Sale that included the subjects of numerology, astrology, scientific, and miscellaneous. He was involved in real estate holdings, and enjoyed large automobiles, especially Lincolns, which he purchased new yearly. In 1954, after making several successful coffee and soybean trades, Gann purchased a fast express cruising boat that he named "The Coffee Bean." It was reported that Gann wore the same type of suit throughout his life, and that his home was filled with items collected in his world travels. He vacationed often in South America. But, in the opinion of his peers, he did not live beyond his means.

W. D. Gann wrote some of the best books ever written on the stock and commodity markets. The following is a list of the books written by him and the year they were published:

Speculation a Profitable Profession
The Truth of the Stock Tape
The Tunnel Thru the Air
Wall Street Stock Selector
Stock Trend Detector Scientific Stock Forecasting
How to Make Profits Trading in Puts and Calls
Face Facts America. Looking Ahead to 1950
How to Make Profits Trading in Commodities
45 Years in Wall Street
The Magic Word
How to Make Profits Trading in Commodities

Gann was a prolific writer. His style of writing was unique. Readers of his books considered him to be a poor writer with a limited use of the English language. Not so! Upon methodic study of his work, the reader will discover in time the Gann method of teaching. He will inspire the reader to research everything from the origin of numbers to the musical scale and vibrations.

W. D. Gann, in my estimation, was a genius. He was born a Gemini with a high intellectual capacity, and a dual personality that caused him to be both genial and obstinate. He was a gifted mathematician, an expert chart reader, and had an extraordinary memory for figures. Take away his science and he would beat the market on chart reading alone. One of Gann's most important technical tools was his charts and no one kept up as many as he did. Gann's charts encompassed 55 years, from 1900 to 1955. During this time thousands of daily, weekly, monthly, quarterly, yearly, and other various charts, were made with great care, each a work of art. He believed charting was an art and if you understood everything the chart was showing, it would aid in forecasting the next day, week, or month's, price movements. Gann was a workaholic, at times working 17 hours per day, 6 days per week. He was very demanding of those who worked with and for him, and expected the same effort from them that he himself put forth. He expected to issue instructions only once and

did not feel it should be necessary to repeat them.

Gann was deeply analytical and studied price actions of various stocks and commodities back through the years. He spent nine months in the British Museum working day and night researching stock and commodity prices and dates from 1820, and wheat prices and dates from 1200. He also spent long hours and long days in the Astor Library in New York City researching stock and commodity markets. He was a student of numbers, number theory, progressions, and the progression of numbers. His trading system was based on natural law and mathematics. Since time progresses as the earth rotates on its axis and in its order, and time is measured by numbers and progression of numbers, and prices in their movement upward and downward are also measured in numbers, it is understandable why Gann had an intense interest in numbers, number theory, and mathematics. A keen understanding of natural laws and their effect on mankind have a direct effect on the markets. The markets are only extensions or reflections of man's actions.

In Gann's time there were no calculators. He used a slide rule and the various master charts he developed, such as the Square of 9, for his calculator. He kept an open mind to any trading ideas to achieve perfection. When making his forecasts, he used many methods to arrive at the time for a trend change, and all of them to confirmed he was correct. In his early trading he made thousands of dollars. But, by listening to false rumors and other people's ideas, he also lost thousands of dollars. In 1913 and again in 1919, he lost small fortunes when the brokerage firms he was trading with went bankrupt. One of these firms was Murray Mitchell and Company. In those days the client's funds were not protected by exchange regulations in case of a failure, as they are today.

During this time he was also involved in two bank failures. Regardless of these losses and misfortunes, he was always able to rely upon mathematical science to aid him in making a financial comeback. This is why Gann states that knowledge of the market is more important than money.

Today, people believe "times are different," but Gann's time saw its bull markets and panics in the stock market, bull markets and panics, in the commodity market, wars, inflationary periods, depressions, bank closings, etc. In 1921 the rate of inflation was 100%. Strikes were rampant, jobs impossible to find, and productivity at very low levels. The Great Depression of 1929 to 1932 and the outright confiscation of the citizen's gold that was exchanged for printed money, left deep scars on the country and its citizens. W. D. Gann was avidly against the New Deal and Roosevelt's creeping socialism. Therefore, to learn from other people's past experiences, people today should understand Gann's famous quotation, "The future is but a repetition of the past, or as the Bible says, the thing that hath been, it is that which shall be; and that which is done, is that which shall be done; and there is no new thing under the Sun." Gann said, "The average man's memory is too short. He only remembers what he wants to remember or what suits his hopes and fears. He depends too much on others and does not think for himself. Therefore, he should keep a record, graph, or picture of past market movements to remind him what has happened in the past can, and will, happen in the future. Panics will come and bull markets will follow just as long as the world stands and they are just as sure as the ebb and flow of the tides, because it is the nature of man to overdo everything. He goes to the extreme when he gets hopeful and optimistic. When fear takes hold of him, he goes to the extreme in the other direction."

The following is taken from 45 Years in Wall Street and is very good advice and very true in today's world. "Every man takes out of life just exactly according to what he puts in. We reap just what we sow. A man who pays with time and money for knowledge and continues to study and never gets to the point where he thinks he knows all there is to know, but realizes that he can still learn, is the man who will make a success in speculation or in investments. I am trying to tell you the truth and give you the benefit of over 45 years of operating in stocks and commodity markets and point out to you the weak points that will prevent you from meeting with disaster. Speculation can be made a profitable profession. Wall Street can be beaten and there is money operating in commodities and the stock market if you follow the rules and always realize that the unexpected can happen and be prepared for it."

In How to Make Profits in Commodities -- Gann made the following comments regarding knowledge as he believed knowledge is power. All who read this should heed and always remember his advice. "The difference between success and failure in trading in commodities is the difference between one man knowing and following fixed rules and the other man guessing. The man who guesses usually loses. Therefore, if you

want to make a success and make profits, your object must be to know more; study all the time; never think that you know it all. I have been studying stocks and commodities for forty years, and I do not know it all yet. I expect to continue to learn something every year as long as I live. Observations, and keen comparisons of past market movements, will reveal what commodities are going to do in the future, because the future is but a repetition of the past. Time spent in gaining knowledge is money in the bank. You can lose all the money you may accumulate or that you may inherit - that is if you have no knowledge of how to take care of it - but with knowledge you can take a small amount of money and make more after time spent in gaining knowledge. A study of commodities will return rich rewards."

Sometime in 1947, Gann sold W. D. Gann Research, Inc. to C. C. Loosli, a San Francisco attorney. He became disenchanted with the business and on February 14, 1948, W. D. Gann Research, Inc. was transferred to Mr. Joseph L. Lederer of St. Louis, Missouri. The office for W. D. Gann Research, Inc. was maintained at 82 Wall Street in New York until 1952. Then it was moved to Scarsdale, New York, and in 1956 relocated to St. Louis, Missouri, where its only business was that of investment adviser.

In 1950 in Miami, Florida, Gann and a partner, Ed Lambert, founded Lambert-Gann Publishing Co. Ed Lambert was an architect who designed the Inter-State Highway System in the greater Miami area Lambert Gann Publishing Co. published all Gann's books and courses.

W. D. Gann passed away in the Methodist Hospital in Brooklyn, New York, on June 14, 1955, at the age of 77. He was survived by his wife, Sadie, three daughters, and a son. That day the world truly lost a market legend.

After Mr. Gann's death in 1955, Ed Lambert continued to operate the business that included a chart service of updated Gann style charts. He was not as active in promoting Gann's writings as when Gann was alive, so for the following twenty years Gann's work became quite obscure. In 1976 Bill and Nikki Jones of Pomeroy, Washington, purchased Lambert-Gann Publishing Co. and the Gann copyrights. In the purchase were all of his personal research including thousands of his charts, papers, books, and writings he had collected through fifty years of trading and research. There were also tables and miscellaneous office furniture used by Gann. The largest Mayflower moving van available was required to transport this purchase to Pomeroy, Washington. Following Billy Jones' death in September 1989, Nikki Jones continues to operate Lambert Gann Publishing Co., carrying on the Gann tradition with the sale of his books and courses. In this biographer's opinion, W. D. Gann was the greatest market researcher of all time. His trading career spanned more than a half century. During that time he devoted his total life to market research and trading. He researched every possible aspect of natural laws in conjunction with variables of price and time in market movements. This study became an obsession to find the cause and effect of market fluctuations, which he did. The trading techniques Gann developed work the same today as they did when he used them. His library contained volumes of books and manuscripts on harmonic waves, proportion, growth, gravity, electricity, nature, and natural phenomena. However, there were no books on open interest, volume, stocks, or commodities.

The only books and courses on commodities and stocks were his own. He was a humble man who stated, at age 75, that he had not learned all there was to know, and yet, he knew more about the markets than any trader who ever lived. There is an important lesson to be learned from the study of his life and his work. For those of you who have diligently studied his writings, you will understand my statements. Hopefully, for those of you who are not familiar with Gann, this writing will inspire you to begin.

Chapter 2

Study and Be Prepared

Many times the reading of a book has made the fortune of a man and has changed his way in life.

If when you are trading, you find yourself feeling inadequate and unable to face making decisions with enthusiasm and confidence, then this course is for you. Are you finding yourself making trades that lose money. You can change and force yourself to become more confident and successful in trading and awaken a new trader within you with Gann Masters. It doesn't matter who you are or what type of person you are, you can find self-confidence in trading.

If you look around at your friends and business associates that you know trade or invest in the markets, you will find that very few of these people are successful in the markets. Most of them lack the confidence and conviction in trading. The majority have surrendered to losses. Statistics say that 90% of people lose in the commodity markets. People blame their brokers, floor traders, outside circumstances or other conditions for their failure to trade profitably. Eventually, most people think that their trading is so much controlled by outside events that they give up trying to improve their results and eventually quit.

W.D. Gann, the greatest trader of all time wrote, Speculation or investment is the best business in the world if you make a business of it. But in order to make a success of it you must study and be prepared and not guess, follow inside information, or depend on hope or fear. If you do, you will fail. Your success depends on knowing the right kind of rules and following them. He said that lawyers, doctors, engineers and professional men who make a success spend anywhere from two to five years time studying and preparing to practice their profession before making any money. Yet people enter into speculation in Wall Street without any preparation. They have made no study of it at all. They try to deal in something they know nothing about. Is it any wonder then that they lose? Speculators and investors who simply guess, follow tips, rumors, newspaper talk and so called Inside information have no chance of ever making a success. Unless they follow some well-defined plan based on science and supply and demand, they are sure to lose.

Gann Masters is in a unique position to give you the rules of successful Gann trading. The years of study and experience by the writers of this course will give you the necessary rules and instructions that will lead to your success in the markets. You must be willing to study and learn the chapters in this course. It will take you long hours of study and practice, but you cannot get something for nothing. It will cost you time and money, but it will be worth it in the end.

You must change your inner aspect of what kind of a trader you are. You must believe that you are different from most all other traders and that you are going to be as successful as W.D. Gann was in the markets. You are not what other people think you are, but what you think you are.

Don't concentrate on your limitations or your failures of past trading. You have been conditioned since you started trading by people with false ideas and values. This has limited your full potential. You have the power to change your trading. You must realize your worth as a strong person and a very successful trader.

We can't change the trading of everyone, but we can help you to change your own trading. You as an individual trader must take it on yourself to improve your trading. This course will give you all the information you need to do this. There is a lot of information contained in this course. One sentence or statement may contain the necessary missing link in your trading. That link may be what makes you a successful trader. You must study every part of this course and not ignore anything. The time has come for you to stop your bad habits of trading and start putting in the time and money to become a very successful Gann trader.

It has been determined that it takes approximately three weeks to learn a new idea. It will take you that long

to fully understand what is in a chapter. don't misunderstand me, you may understand what was written, but it will take three weeks of review before it is imbedded into your mind and it is a habit. Put all things aside while you are studying a chapter. The hours you spend will be a small investment compared to the return that you will receive.

To get the best results from these chapters, read the entire chapter through once. Then return to the chapters that will help you understand the current one. If necessary reread the current chapter to pick up anything you missed. Emerson once said: Many times the reading of a book has made the fortune of a man and has changed his way in life. To use books rightly is to go to them for help; to appeal to them when our knowledge and power fail; to be led by them into wider sight and clear conception of our own. Now, if you are ready, let's begin.

You must now assume that the truths you now hold to be true may in fact be false and those truths may hold you back from your full potential as a successful Gann trader. don't believe that you can become a very successful trader just with will power alone. Negative ideas in your imagination can defeat you. No matter how hard you try, it will be of no use.

You must open your mind freely to all new ideas and forget all false truths you believe to be true. There is no limit to what you can do if you use your full imagination to work to becoming a successful trader. Once you believe that you are a trader as good or better than W. D. Gann, then you will act as though it were true. You have been unknowingly limiting your full potential through your Mistaken certainties in your mind. If you can eliminate these Mistaken certainties, your potential for successful trading will go well beyond anything you know.

You must now awake to the truth and limitations that you have imposed on yourself. You must now assume that many truths you now hold are in fact false and that these truths are keeping you back from fully using your potential. You are primarily a product of what you have been taught up to now. If you want to change and become a successful trader, you must learn to understand everything that is taught to you and not believe it to be true, until you have proved it to yourself. You will be given many Gann trading techniques, but do not accept them as truth, until you have proved them out to yourself.

You must be self-reliant. This will be a deterrent to the idea that other traders are smarter, wiser or more intelligent than you are. And, so, you look to them for support for trading ideas that may be unprofitable. It is impossible to become a very successful trader if you are thinking other traders are smarter than you are.

When you become self-reliant you also will have the courage to listen to your inner feeling for hints or signs that you are on the right track. You will be taking a cue from the successful trader you are, not listening to someone outside of your inner thoughts. When you learn to follow the signs correctly and your inner prompting for hints on how to trade a particular situation, you will be a successful trader.

Dependency on the ideas of another trader is slavery by your own consent. it's very degrading for you to be dependent on the trading ideas of another person. One sure sign of dependency is that you will look up to the other trader as superior.

Advice from others in the trading arena is everywhere. Most of it is free and not worth anything. You can have at any one time a dozen unpaid advisors who want to give you their opinion. Most of these advisors are, in fact, not qualified to give advice, but merely have the title that shows that they must know what they are talking about. Most of these advisors can't trade their own accounts successfully, so how can they advise you to trade successfully. Overcoming your dependency on other traders is difficult to do. You have been trained since childhood to depend on other people. It did play an important role in your growing up and education, but it was never meant to take over your individual identity or thinking.

Remember this important saying, No one can ever let you down if you haven't been leaning on them. No one can make you lose money in the markets, if you are not dependent on them for your trading ideas. Once you have developed your self-reliance, you do not have to procrastinate or evade making a decision to make a trade, because you will be confident to meet the situation with total self-assurance.

You must accept yourself as a successful and intelligent trader. You can never be better than your own self-acceptance as a successful trader. Almost all of your problems in making trades are directly a result of how you feel about yourself as a successful trader. You can never be a better trader than how good of one you feel you are. You must have positive self-esteem about your own trading talents and abilities.

Many traders seem to have a high self-esteem about their own trading talents and abilities on the surface. However, underneath, they are victims of their own low self-esteem. This low self-esteem gets worse the longer they trade, until they go broke or completely give up. If you hope to be a successful trader, you must develop a high self-esteem of your own trading abilities.

You must love studying and applying the techniques of Gann to the markets. Learn to love studying and applying the trading techniques to the markets. There is not one successful Gann trader who does not fully love what he is doing. You will have to spend many hours studying, learning and researching mathematical trading techniques, but it will be enjoyable and financially rewarding. How much you love what you're doing, whether it be your current job or studying the techniques of W. D. Gann, will determine how successful you are.

Everything you need for successful trading lies within you. Your mind is your most usable asset to succeed in learning and trading the techniques of W.D. Gann. If you knew the powers in your mind, it would stagger your imagination. You must make full use of this very powerful resource to succeed in trading. You need to go way beyond what you think your mind can do. don't let it be limited by what you think it can do. don't look elsewhere for help, because you have in your mind all the great power to understand and fully use Gann techniques to trade and succeed with.

Successful trading requires that you devote yourself to fulfilling specific financial goal. If you do not fully commit yourself to this goal, you will be like a ship without a chart to follow and will eventually end up shipwrecked on a lost shore. Studies have shown that individuals that have a definite plan are more likely to succeed and be happy in life. At this time in beginning your studies of Gann, you need to make a plan that will use all your talents and abilities. You must take the time right now to figure out how much you want to study and what you want to do with this knowledge of trading, otherwise, you will end up like a shipwrecked captain.

If you are to achieve your maximum potential as a trader you must give yourself a physical and mental rest and relaxation period with inner communication through meditation. The meditation will establish a contact with the inner source of power within you. It will cleanse your mind and open it up to be receptive to the techniques of Gann. When you have trouble understanding a part of Gann, it will guide you back to the right path again and help you to achieve your full potential. It will also help you feel totally a peace with yourself.

Eliminate fear of failing. Fear has been around in trading the markets since they began. It has been the major cause of all market crashes. Fear is your enemy and a destructive emotion which will destroy your self-confidence in trading. If you are afraid, it is impossible to become very successful at trading. To remove any fear in yourself, you must have a positive mental attitude about yourself. Use the power within you to gain success at trading the markets and eliminate fear. Live a day at a time. Make positive statements to yourself continually during the day to help your mental attitude.

You must study the markets and know and understand them fully. You must prove all rules and techniques you have in your tool box. When you see the rules and techniques work over and over again, your confidence will overtake the fear you once had in trading the markets. As you cultivate a positive mental attitude about trading with the techniques of W.D. Gann, a new successful you will occur to trade the markets. You will be a trader with power and direction. Once you have fully committed yourself, you will never be the same again.

Chapter 3

Capital Required

Did you ever wonder why that most of the people who actively trade the markets loose money? Why is it that a few of the people who actively trade the markets consistently make money year after year? These are professionals who make it their living to trade the markets full time. A lot of their success has to do with money management. The information given in this chapter will help you to understand what these few people do right and what the majority of the traders do wrong.

Do you think that successful trading in the markets has to do with superior intellect? People think that if they had superior intellect they would make more money in the markets. This is not true. Superior intellect is important, but it is not the answer to profits. I know many highly intellectual people trading the markets with consistent losses. You know them too. Superior intellect alone is not the prerequisite for making profits in the markets. To be successful in the markets you must have a combination of wisdom, experience and self-mastery. This is the three important prerequisites for success in trading the markets. Very few traders will attain these important qualifying factors. Success in trading the markets partly comes from mastering the guidelines of money management, which you will learn in this chapter.

Perhaps the biggest negative factor in successfully trading the markets comes from psychological factors. Your emotion sets in when you have either a big loss or a big gain. It's hard to control yourself. It's just human nature taking over. Stress in trading can make you do the wrong things at different times in the market. These can be very costly mistakes that you can never make up.

To handle the psychological negative factors of the market, you must understand the following:

1. No one makes money in the market all the time. If someone tells you they do, then they are lying. Even the most successful of all traders loses money from time-to-time. Loosing is part of this type of business. In loosing, it is important to cut your losses short and go on with the game plan.
2. You must have a plan to invest with. In the Gann Master's course you will learn a plan which you can stick with. The plan should tell you what to do when your forecast is right and it should tell you what to do when your forecast is wrong. You must set a definite dollar amount that you are willing to loose in the markets if things go wrong.
3. You will learn in Gann Masters how to completely screen what you are going to trade in. There are several different approaches you can select and they will be based both on mathematics of the markets and on your own psychology to trade with them. When you make a trade, you will learn to look at all factors of the trend of the market. You will look at the long, intermediate and short term trends of the market. It will be necessary for you to obtain data going back to at least 60 years in most cases. This is Gann's most important rule of always going with the trend of the market and never bucking it.
4. Stops must always be used to protect your capital. This is basic insurance just like you have on your car and house.

By following the above rules you will gain confidence in trading. You will eventually gain a sixth sense in trading. Something in your gut will tell you not to invest in a particular situation. If you have that feeling, then don't trade in that situation. You have developed a higher level of trading than most people can attain.

You must follow successful money management techniques. You first must know what is your available capital for trading and what part of it should be risked in the markets. This determines the particular strategy that you should use in trading the markets.

If you are just starting out trading, then you should follow the principle of only trading a percentage of your capital. For example, when you complete the Gann Masters course and you have proven with paper back testing of a trading plan that you are ready to trade, start with this percentage method. Say you have \$50,000 to trade with, then you should only use only 20% of it to trade with until you have proven to yourself that the method works in the real markets. If you are trading with futures or options, remember that these vehicles are highly leveraged. You can go into a series of loses at any time. You should break up the \$10,000 into 10 separate parts. That means that you could loose 10 times before the \$10,000 would be gone. If you are using solid trading techniques, then it should not happen. If you are trading stocks, futures or options, then each of the trades should risk the same amount of money or \$1,000 each. It is more difficult to trade if futures and options than in stocks because these vehicles are so highly leveraged.

After you are an experienced trader you can allocate more of your trading capital to a trade based on:

- 1) Market patterns
- 2) The trend of the market
- 3) Cycles of the market

How much capital should you risk on each trade? This should be based on the profit potential of the trade. Using Gann Masters you should be able to forecast where the stock or option should go and when it will get there. You make a careful analysis of several investments. Begin with the best and go down the list. Starting out, you should not have any more than 3-5 positions at anyone time. This should give you the best possible trading results. If you are trading mutual funds then these 3-5 positions can be in sectors of the market. How much money you put into any one position is really based on your skill and expertise. The more experience you have, the more you can put in one particular trade. Remember, even if you are an experienced trader, you need to protect your capital at all times with stop loses.

You must make a plan of capital preservation to be successful in the markets. It is very important that you understand the amount of capital required to trade the markets. You want to have the ability to continue to trade the markets for the next year to twenty years without being wiped out. Most traders have no capital trading plan, use fear and greed to trade by, and over trade. It's no wonder that 90% of commodity traders lose. Those 10% that do make money, of course, are the ones that have learned how to trade. They make all the money that the others lose. If you make a plan of capital preservation, you will always have the necessary capital to trade with, even if you have the expected losses in the markets. If you put all your capital at risk in the markets on a couple trades, like so many traders do, then you will surely lose it all and be out of the game. Preservation of capital is your first rule to apply with all your trades.

Here is another example from Chapter 3 of the Gann Master's textbook. This is specifically on futures trading. On the Chicago Board of Trade, the grains trade in units of 5000 bushels. When wheat is trading where it is now at \$3.50 - \$3.75 per bushel, you need 20% of the value of the total contract to safely trade the market, though the exchanges charge only 5% margin. If you fully leverage your position on the 5% margin, you will be scared out of the markets with fear and greed and will surely lose, so use the 20% margin rule to safeguard your capital. If wheat is selling at \$3.75, you would multiply this amount times 5000 bushels to get \$18,750 as the total value of the contract. 20% of the contract value is \$3750. Therefore to trade a 5000 bushel contract of wheat at \$3.75, you should have \$3750 of capital. The exchange margin on a contract of wheat at that level is about \$1000 or 5%. You therefore have an excess of \$2750 over the initial margin required. Divide the \$2750 by 10 giving you a potential of 10 trades possible with a maximum loss of \$275 each before you're out of the game.

Your average risk, should never be more than 10% of the excess capital above the initial margin rate of the contract. You should have enough money to trade the market 10 times, and have ten straight losses, before you would be wiped out. This should never happen, if you have a trading plan and trade according to the

rules of successful trading, which you will learn in this course. It's very rare that you would even have three consecutive losses, and even if you did, then the next trade could make you 10% on your money giving you a large gain over your small losses. Your capital for trading commodity markets should be at least 20% of the total contract value. You should never risk more than 10% of your excess margin money on any one trade, so you can trade at least 10 times before you are out of the game. If the market is in a major uptrend, as the market gets higher, you will need more capital to trade. If wheat rises to \$4.50 per bushel, you will need \$4500 to trade each contract and you would never risk more than 10% of your excess margin capital on each trade, so you could have 10 losing trades before you were out of the market.

Margin for trading a contract of wheat

3.75 per bushel
X 5000 bushels

\$1850
X 20%

= \$3750 necessary capital

\$1000 initial capital

= \$2750 excess capital

divided by 10

= \$275 the amount of stop for each trade

which means there is a maximum of 10 losing trades with this stop

Here is an example of buying stocks on margin from the Gann Master's textbook. In the stock market, the capital requirement rules are different. If you buy stocks, you have two choices, either put up the full purchase price of the stock or put the stock on margin and put up 50% of the value of the stock and pay interest on the other 50% usually at 1% above broker call rate. In either case, you still must follow the rules of capital preservation. Never risk more than 10% of your trading capital above the initial margin required on any one trade. If you purchase 100 shares of a stock at \$50.00 per share the total amount of the transaction is \$5000. I am not taking into account commission for this example, but for your own trading you also need to take into account commission costs. If you purchase this on margin, you would have to put up 50% or \$2500. You should have at least 50% of the total value of the stock above the initial margin. Divide this 50% into 10 equal parts to figure out what amount each stop should be. You can vary this percent, but it must be based on how active the stock is. If you use the same rule that is used in commodities, you would not risk more than 10% of the excess margin on any one trade. Therefore in this case, 50% of the total value of the stock is \$2500 and that divided into 10 equal parts is \$250 maximum loss per trade to stay in the game.

It is very important that you know how much leverage you are using in the markets. This can greatly affect your success at trading. If you are trading futures the leverage is approximately 5-10%. In options the leverage is even higher, sometimes only 1-5%. A big move can greatly affect your profit or loss in these vehicles. Leverage is your friend and can be used to your advantage. With this valuable tool, you can reach your goal of trading profits, if it is handled correctly. If you misuse leverage, it will kill you. Very few traders analysis leverage correctly.

You can also estimate what your probable losses are from a trade as well as the probable gains. Go back and look on the historical charts for the same type of patterns. When the trade worked it went to its objective and when it didn't work, it had a certain amount of a normal loss. The key to successful trading is understanding the past and that is what Gann Masters is all about.

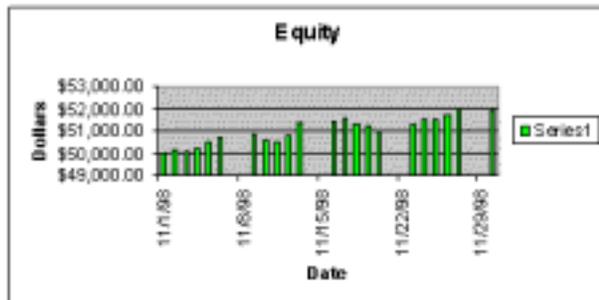
Before you trade any particular method you learn in Gann Masters, you need to go back and paper trade it. If the paper trade is successful then you will gain the confidence you need to successfully trade the method. This is very important, as psychology and lack of confidence is the biggest killer of the trader. In paper trading you will come up with a maximum drawdown at any one time. You might have three straight losses. This will give you a figure to watch for. You will learn the amount of the maximum drawdown that you will usually have. You need to have this amount of capital in reserve so you don't get wiped out of the market. You might also find that if you have one drawdown then you should cut the amount of the next drawdown until the market straightens out. Sometimes the market is not trending and is whipsawing traders. This is when you get those drawdowns. Usually after three losses in a row the market will then start trending again. Most traders are looking for a system that gives them the most profit. That's all well and good, but it is also important to have a system that gives you the least drawdown.

To analysis you're trading method, you might construct an equity graph. You can do this with a spreadsheet program like excel. It can be done in just a few seconds every day. At the end of every day just enter the amount of your total equity in your account. The excel program will graph it and tell you the amount of your biggest drawdowns. It is very important to know the amount of the biggest annual drawdown, so you can be prepared for it, as this might be when ends your trading career. You can also use the program to tell you other important information such as your return on your trading account and such things as seasonality and times of the year that your loose. You could also from this graph determine your yield on your trading and even compare it with what the S&P has done for the year.

You can download the sample Microsoft Excel Equity file by clicking the following file: (You must have Microsoft Excel in your computer for this to work).

[Equity Excel File \(click to download\)](#)

Date	Equity
11/1/98	\$50,000.00
11/2/98	\$50,125.00
11/3/98	\$50,100.00
11/4/98	\$50,200.00
11/5/98	\$50,500.00
11/6/98	\$50,700.00
11/9/98	\$50,900.00
11/10/98	\$50,600.00
11/11/98	\$50,500.00
11/12/98	\$50,800.00
11/13/98	\$51,340.00
11/16/98	\$51,450.00
11/17/98	\$51,550.00
11/18/98	\$51,300.00
11/19/98	\$51,200.00
11/20/98	\$51,000.00
11/23/98	\$51,300.00
11/24/98	\$51,500.00
11/25/98	\$51,500.00
11/26/98	\$51,700.00
11/27/98	\$52,000.00
11/30/98	\$51,900.00



Your yield on the trading account can greatly be enhanced with compounding situations. This is the advantage of a trader over an investor. You can achieve rates of return far above the average buy and hold investor. With higher compounding yields you will be able to achieve your financial goals much sooner than normal. As a successful trader you could achieve annual rates of return of 20-200%! The key to successful trading is, of course letting your profits run and stopping out of losses quickly. If you let your profits run you will need to finally determine when to take profits. That will be determined on several factors. The chart objectives, your age, wealth and psychology of trading. After you take profits in a trade, you should also reward yourself by giving yourself a gift, or sometime off or going out to eat and celebrating. All work and no play are not good for you or anyone. You should also take some money out of the market on each successful trade and put it aside and let it accumulate.

Your money should only be risked when the long, intermediate and short term charts give you the probabilities of a successful trade. The major market trend, and your own trading skills and psychology are all important factors for success in trading. If you are a new trader then you should use the percentage rule and only risk a small amount of your capital until you have proven it to yourself that you can trade successfully. You need to learn how to use money management intelligently to succeed trading the markets. Increased leverage can be used from time to time to enhance your overall profits, but this must be done with experience. You must have a clear understand of money management to succeed in trading the markets.

Chapter 4

The Right Kind of Charts

To start trading according to the rules of W.D. Gann you must have the right kind of charts.

It's very important to have the right kind of charts to follow stocks or commodities. The major problem with most traders is they don't have the right kind of charts to study the market correctly. If you talk to a carpenter or a surgeon or any professional person, they will tell you the importance of having the necessary tools to get the job done right. Can you imagine a surgeon operating on a patient with a dull scalpel or a carpenter using a dull saw? Well that's precisely what a trader is doing when he trades with many of today's chart programs and services. Traders risk thousands of dollars trading with ineffective tools. If you are going to build a house, it is very important to build it on a strong foundation. To start trading according to the rules of W. D. Gann you must have the right foundation, and that's a proper and correct chart.

Gann used long 36 inch wide heavy weight K&E pure cotton chart paper to plot his chart data on. The grid lines were orange. The roll was 50 yards long. It cost Gann about \$10 a roll in his time. He had a staff of secretaries updating these charts on a daily basis. The secretaries were in the outer office and he was in the inner office. He would quietly research and trade with the trends of the markets using these charts in a closed private office. The only time anyone was let in his private office was to bring his lunch in a noon.

We used to sell the same K&E 36 inch x 50 yard chart paper in the early 90s. Initially the cost of each roll was around \$38 per roll. Within 8 years the cost had risen to \$150 a roll. K&E was then bought out by another company and the chart paper was completely dropped.

We also used to sell the charts with data plotted on them. We would use another type of K&E paper for this. It came in onion-skin thickness. By using this chart paper, we could plot data on the charts with rapidograph pens and take them to a local blue printer and they would run off hundreds of copies of these charts. We would sell them for \$3.50 each and many clients would buy 10 - 20 charts. They were updated through Thursday and sent out on Friday. When our clients received them, they only had to update a couple of days to bring the charts up to date. These charts came in monthly, weekly and daily charts. Clients could get the long-term, intermediate-term and short-term perspective of the markets.

The advantage of these charts was that you could spread the charts out in front of you and see the whole picture. The monthly charts went back 10 - 15 years, the weekly charts went back 5 years and the daily went back 2 - 3 years. Another advantage of these charts is that you could construct plastic overlays and lay the left top or bottom corner of the overlay on an important high and you could calculate the probably direction of the market. You could also move the overlay to best fit. That means when a trend starts it continues in time and sometimes there is a shift in time. It might be 1 - 2 days. To correct for this you merely move the overlay to fit the trend of the current market.

Many traders also believed that updating these charts by hand gave them a better feel of the market. Most traders would update the daily charts everyday and the weekly and monthly charts would be updated at the end of every week. Until you have done this, you won't know what I mean. It does give you a better feel of the market. Ask any trader that used to update his charts by hand and they will tell you what I mean.

Later we created a program called Max:Chart that would use data on disk to print large format charts. It would print two 15 inch strips which we would then tape together in to a chart approximately the size Gann used. A standard 15 inch Epson printer could be used. We would then send these charts out to clients instead of the large blue print type charts. They could be sent out on demand as they could be printed within a short period of time. The Max:Chart program was also available for purchase. We sold hundreds of them. When Microsoft shifted to Windows 95 the chart program would no longer work with the new operating system, so we dropped the program.

Today there are many types of chart programs you can purchase. TradeStation, SuperCharts, MetaStock are the leaders in the professional chart arena. You have probably heard of them. They also feature the ability to scroll back to see more data on the screen. The programs only allow you to place various types of trendlines the charts. No Gann Squares can be plotted. Many of the charts in the Gann Course you have are done with TradeStation. Some of these programs also allow you to have both end-of-day or intra-day charts. Intra-day charts allow you to fine-tune your entry down to the very minute, if you want to. TradeStation costs around \$2000 - \$4000 and MetaStock is \$399, MetaStock Pro is \$1,495.

Chapter 5

Know the Trend

Trend is the most important thing you can know about the market.

The most important thing you can know about the market is its trend. The market can do three things:

1. Go up
2. Go down
3. Consolidate sideways

Types of Trends

The market can have these three types of trends:

1. Short term
2. Intermediate term
3. Long term

Entry Technique

Gann's entry technique for trading is as follows:

To Buy

If the long term trend (monthly charts) is up, wait for the intermediate term trend (weekly charts) to break up out of a long running consolidation and then buy after the first short term (daily charts) drop turns up.

To Sell

If the long term trend (monthly charts) of the market is down, wait for the intermediate term trend (weekly charts) of the market to break down out of a long running consolidation and then sell after the first short term (daily charts) rally turns down.

Low Volatility Entry

In a situation like this you can put on your position with low volatility and close stops without too much risk. In this technique you are using Gann's rule of buying based upon the market making new highs on the monthly and weekly charts, but using the daily short term reactions to enter your positions. You'll never make consistent money in commodities unless you have the psychology to buy high and sell low. Don't be afraid do this because this technique produces some of the biggest profits from trends in the markets.

Market in Strongest Position

The market is in the strongest direction when all three types of trends are in one direction as indicated:

1. Long term up
2. Immediate term up
3. Short term up with this technique, you will have all three trends in the same direction.
4. What Charts to Use

To figure out the trend of the market, you should use:

1. Daily charts to tell short term
2. Weekly charts to tell intermediate term
3. Monthly and yearly charts to tell long term

Market Activity

The market will typically have low activity at the bottom and abnormally high activity at the top. Watch the average daily, weekly or monthly range to indicate if you're near a top or bottom.

Time Factor

The time factor is very important for showing a change in trend. When the trend of a market makes a change, the number of days of a reaction will increase over the last reaction. This is probably one of the first indications of a change of trend in a market. You need to keep an eye on the number of days reaction in both calendar and market trading days.

Calendar Days

To count calendar days, you count all trading days plus weekends and holidays. It's very simple. It is much easier to use the Excel spread sheet for calendar time counts. This will be explained in a later chapter.

Trading Days

To count trading days you must follow two very important rules: 1. Don't count inside days. Those are days in which the current trading day's high and low are inside the previous day's high and low. 2. If a market rallies stops and backs up over 50% of it's move, you start your count over. 3. To be a valid swing, the market must make a 2 day swing. That means that the market must have 2 days of consecutive newer highs or lows. 4. You must figure out the minimum amount of a move to count for a swing. In the case of TBonds, I determined the minimum was 1 full point. 5. The market will usually have approximately the same number of swings in its thrusts and reactions. There will be more on this in a later chapter. The market swings should be labelled for easy identification. In all uptrends mark all swing points. Mark all downswing points. There will be more in a later chapter concerning these swing numbers. It's best to buy or sell on number 3 tops and bottoms.

The Importance of the Time Factor

The time counts of a market are very important. They tell you when a market is turning. Sometimes the turn is hard to detect. This is one way to determine a change in trend. There are other methods that you must use with this method to be more accurate. You will learn those later in other chapters.

Time Sheets

To know the accurate time count on a market is necessary. You should keep a written record on the market. This can be used on daily, weekly and monthly charts. This time sheet also has the ability to tract points move.

Chapter 6

Mathematics

Mathematics is the basis of all forecasting in the markets.

Using mathematics is an absolute necessity to trade the stock or commodity markets successfully. The traders who master the art of trading the markets with mathematics will be successful. Those who don't will fail. It's as simple as that. Traders who rely on tips and rumors will eventually lose. By taking this course you show the desire to succeed by going beyond what the normal trader will do. You are showing your desire to study, understand and apply mathematics to the market. It will take a lot of study for you to succeed, but you are on the right course. Those traders who think they can use computer trading programs alone with simple oscillators will fail. Many of these traders spend hundreds of hours of their valuable study time trying to make some definite pattern or way to use oscillators. They won't be able to do it. You need mathematics to succeed in the markets.

It looks so easy to trade with oscillators when you look back on past charts. You just sell when the stochastics is at the top and buy when it's on the bottom. It works some of the time, but sometimes it sets you up for a blood bath. For example, sometimes when the stochastics gets to the top, in an apparent sell mode, the market will take off and explode, leaving you with big losses if you shorted the market. The same thing happens when the stochastics gets to the bottom. If you buy when the stochastics is at the bottom, sometimes the market will fall out of bed giving you huge losses. Traders who follow only oscillators don't know when the market is approaching major or minor geometric angles or timing cycles. They have no idea of where the market might be heading. They will short the market when the stochastics oscillator is at the top and not know that the market is resting on a major geometric angle or time cycle. The market will then explode giving them huge losses. Check around with traders that use oscillators. You will find that they generally lose money in the markets. The only traders who consistently make money in the markets are traders who use mathematical methods of trading. These are based on the true mathematics behind the market caused by the vibration of numbers. Prior highs and lows and their interactive harmony waves and geometric angles are the real cause behind market movements.

Oscillators can be used to successfully trade with, but only if they are used with other time and price trading techniques to support them. In this course we go over how displaced moving averages, stochastics and MACD can be used to trade the market mathematically. It is the only Gann way to use oscillators. It's a puzzle why most traders don't use mathematics to buy and sell stocks and commodities and to forecast trends in the markets. It's very easy after you learn the mathematical trading techniques and it's 100% more reliable than using other techniques. It's also much more consistent. Mathematics is something that you can depend on. In this course, after you learn the principles of trading market mathematics you will never want to hear tips or rumors again. You will find that if someone offers their view of the market to you, you'll want to shut them out and not let them influence you. After you know the rules of mathematics behind the market you will find your sixth sense develops and many of the techniques you learned in this course will start relating to each other. Your mind will have a unique sense of where the market is headed.

In using mathematics for trading the markets, it is important to know that the market can go only two directions. It can go up or down or it can just move sideways. Prices can increase or decrease or just stay the same. They can do nothing else. We will use mathematics to figure out if the markets will go up or down. There are various methods to use to determine this. They involve the use of mathematical trend analysis and timing techniques developed by W.D. Gann.

The Cube

There are three measurements in a cube: length, width and height. We can use these measurements to

figure out market movement. The market can be clocked in time in two different ways. One way is using trading days and the other is using calendar days. Many traders will use both as a check on each other. For example, a market might make a bottom and advance 90 market days to the next major top. That move would be 126 calendar days if you added the weekends. Most of the time the calendar day count will coincide with the market day count. The two together, will usually give you a time window. This window will contain 2 - 3 days where the market will top or bottom. In this example there are 90 trading days. Divide 90 trading days by 5 days to the week. You get 18 weeks. Weeks have two weekend days, so multiply 18 times 2 to get 36 weekend days. Add these 36 weekend days to 90 and you get 126 calendar days, which is very close to the 120 circle number. The ratio of trading days to calendar days is 1.4 which is close to the Gann Square of 144 or 10 times 1.44 is 144 a very important number.

Time measurements can be based on several techniques. One technique is using natural fixed numbers. These are the numbers that can be divided into the circle of 360 degrees. These are: 9, 18, 27, 36, 45, 72, 90, 120, 180, 270 and 360. Markets fall or rise by these exact numbers. The other technique is using variable numbers based on market highs, lows and ranges. If the market makes a high at 540 and a low of 410 the difference is 130. The markets often retrace one half of this or rise for 65 days.

The vertical or height movement of the market is price. Price calculations can use the same techniques as time measurements such as natural fixed numbers or variable numbers. For example, if the market makes a bottom at 90 it can rise 90 days and 90 points and square at that point and turn down.

A combination of height, width and length of a cube is volume of a cube. A market has to move up and down a certain number of vibrations to fill the volume of a cube before the market will change directions. Count the swings of a bull market and it should equal the swings of a prior bull market. See Exhibit 6.2. in the course book. A bear market also should have the same number of swings as prior bear markets and they should be in proportion to prior bear markets and bull markets. A simple example is the Elliott wave counts of the market. Wave one is a count of 1, wave two down is 2, wave three up is 3, wave four down is 4, and wave five up is 5. Inside of these waves are smaller waves and the total wave count of one bull market should equal some prior bull market of the same commodity or stock.

A cube also has six sides. This means that the market will repeat itself every 6 intervals. That means you should check back every 6 days, 6 months, 6 years, or (6 X 10) 60 years and the market will repeat itself. Be careful as the market has inversions in those repeat time cycles. That means for example 6 months ago if the market made a low, today it might invert and make a high instead. You should be watching for price patterns so you don't get caught in an inversion.

In geometry there are 3 basic shapes: the square, the circle, and the triangle. See Exhibit 6.4 in the course manual. The square, of course, represents time and price. The horizontal is time and the vertical is price. From the square we determine everything, both timing and price projection. If we put the 360 degree circle inside of the square and the three sided triangle inside the circle and the square this will give us the means to determine time and price points for forecasting the markets. As you remember, the fixed time points are from the circle of 360 degrees. The triangle helps us divide the circle into the three points of 120 degrees. The 120 degree points are some of the most important points of the circle. The Gann wheel or the Square of 9 is constructed from the square, the circle and the triangle.

We can use three different basic angles to determine time and price within the markets: the vertical, the horizontal and the diagonal line. The vertical is price, the horizontal is time and the diagonal is a combination of the two which is change of time and price. The horizontal and vertical lines divide the circle into the important 90 degree points. The triangle can then be used to divide the 90 degree points into 45 degree points. From these three geometric shapes, we get all the calculations in mathematics for time and price projections in the markets. In combination with the angles, we can use the squares of both odd and even numbers to get the cause behind the market movements. These numbers are actually part of the square when they are laid out according the Gann Square of 9.

Constructing Charts Properly

For geometric angles to work properly on charts, it is necessary for the charts to be constructed properly. You'll find the rules in this chapter of the Gann Master's Course. If the charts are not constructed properly,

then one small error can throw off your measurement and give you a loss in the markets. A very small error at the beginning can lead to a huge loss later on. Study this chapter in the course book so you know these rules.

Geometric Angles

Geometric angles accurately measure time and price movements. There are 360 degrees in a circle and certain numbers in the circle are very important. In this course, you will learn which numbers are important. These numbers will indicate to you when important tops and bottoms are being formed. They will also indicate important support and resistance levels in regard to both time and price. You must study and practice with these numbers once you learn them to determine their importance.

Geometric angles are used to measure time and price movements because they are much easier than using addition, subtraction, multiplication or division in the markets, provided you use correct rules for drawing the angles correctly. Angles can correct mistakes in mathematics. For example, if you count across the bottom of your chart 90 squares across and 90 squares up and draw a 45 degree angle down from the left high point, the angle should intercept the 0 line at exactly 90 squares to the right. Thus angles, if drawn properly, will help you to correct mistakes in mathematics on your charts. Angles, will help you to know the position the market is in all the time. If you figure the market using mathematics such as addition, subtraction, multiplication or division and write these calculations down on paper, you will misplace and lose these calculations much of the time. Having the angles drawn on your chart allows you always to know the position the market is in all the time and you will always know when the market changes trend.

Geometric angles accurately measure and divide time and price into proportionate parts. If a stock or commodity makes a low on a certain price for example 34, it has three dimensions of time and price. It can move sideways for 34 time units, it can move up for 34 price units, and it can move diagonally 34 time and price points from which it began. Accurate measurements can be taken from previous highs, lows, and the ranges in between. There is always proportion between previous highs, lows, and swings of the market.
90 Square Chart

The 90 square pattern chart is very important to use in trend analysis. See Exhibit 3.3 in the course. This chapter tells you the secrets of constructing this square on plastic. Study it carefully. It means a lot! The 90 degree square also helps you to understand the principles of Gann's mathematics. First you divide the number by the odd or even numbers such as 4 or 3. Divide the sides of the square first by 4 and then by 3 giving you $1/4$, $1/2$, $3/4$, $4/4$, $1/3$, $2/3$, $3/3$. Then if necessary divide the sides even further by going one step further such as $1/8$, $1/4$, $3/8$, $1/2$, $5/8$, $3/4$, $7/8$, $8/8$, $1/6$, $1/3$, $2/3$, $5/6$, $6/6$. What you are doing is multiplying the 4 and the 3 by 2 to get the next divisions of 8 and 6. To go even further you multiply by 2 again to get 18 and 12. Keep going out further to find the more precision numbers.

Also in course manual all the angles are explained and what they mean. Study them carefully.

When to Draw Daily Angles

When do you draw the angles on the chart? You draw them only after the market has been in a downtrend for at least 3 days and then the market has a three day rally making higher tops and bottoms. The first angle you draw is the 1 x 1. You next draw the 2 x 1 and then the 4 x 1. If the market stays above the 4 x 1, it will accelerate. If the market breaks the 1 x 1 then you should begin using the bear angles below the 1 x 1. Also study in the course manual for this chapter when to draw weekly and monthly angles, and when to draw bull and bear angles.

Practice with all of these geometric angles over and over again. Knowing how to put these angles on your charts will tell you the position of the market at all times.

You will also learn how to draw the important fixed number lines and top and bottom of range lines. All of these are very important.

Did you know that geometric angles will hold only when the 5th, 3rd or C wave of a market is complete. If the wave pattern is not complete, then the angle will eventually break. This is why so many people lose money trading the Gann angles. They do not know what they are doing. If the market is falling and it lands on the 1 x

1 angle and it is only in its 3rd wave down of a 5th wave move, it may bounce off the 1 x 1, but on the next down it will penetrate the angle and go to the next angle until the market completes the fifth wave down. When the market does complete the 5th wave, then and only then can you look for the nearest Gann angle for support. *This is one of Gann's secrets, which he failed to reveal in his courses.* You must know not only the Gann angles, but also know where in the wave pattern you are. This tells you the direction of the market. The Gann methods only tell time and price support points.

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Chapter 7

Elliott Wave Theory

Elliott waves should be a necessary part of your overall trading method. The Elliott Wave Theory uses a very complicated set of rules that are subject to change anytime. You will find that very few Elliott wave traders can ever agree on what wave pattern they are in, until it's all over. Two Elliott wave technicians can look at a chart and both of them can see two different patterns. This is perhaps why Gann did not get into the complex reading of waves. He did, however, understand simple waves and how to read and use them with his time and price points. This chapter explains a practical way to use the Elliott Wave Theory in conjunction with other Gann time and price points. About 50% of the Elliott Wave techniques are simple and clear and the other 50% are complex, too difficult and subject to differing interpretation among Elliott wave technicians. For the Gann trader, the best approach is to use the 50% that are simple and clear. Elliott waves should be a necessary part of your overall trading method. Gann time and price points tell you where the market has been and where it is going. The Elliott Wave Theory tells you where you are on the road map. It can be used very nicely in conjunction with the other Gann time and price points. The Elliott Wave Theory used alone, will get traders into big trouble as they are constantly relabeling waves to fit the pattern that they currently see. The Elliott wave approach we recommend will work most of the time in conjunction with other Gann rules and help to put the whole puzzle together as to where you are in the overall trading structure of the market.

Using Gann Ratios

There are actually two types of ratios that can be used with the waves. They can be Fibonacci or Gann ratios. You should check the market you are trading in to determine which of the two types of ratios the market is best working with. The following is a listing of the differences in the ratios. Gann ratios are determined by basically dividing full numbers into halves and thirds as far down as you need to. Here are the ratios used: Divide the number by 2 or 4 or 8 or 16 and divide by 3 or 6 or 12. By doing this we get the following as compared to the Fibonacci ratios used by most Elliott wave traders:

Basic Ratio Differences

Gann .25 - .33 - .50 - .66 - .75 - 1.00 - 1.25 - 1.33 etc.
Fibonacci .382 - .618 - 1.00 - 1.382 - 1.50 - 1.618 etc.

As you can see the Gann ratios are very similar to the Fibonacci ratios used by Elliott wave traders.

Two Basic Waves

Elliott waves can be classified into two basic parts (See Exhibit 7.1 in chapter 7).

- 1) The impulse pattern that is in the main direction of the market that ends at a Gann time and price level
- 2) The corrective pattern that the market will retrace to some important Gann time and price point.

The Impulse Pattern

Impulse patterns consist of usually five waves in the main direction of the market. That main direction of the market can be either up or down.

- 1) The first wave of an impulse move is usually not very strong as traders are unsure of where they are in the market.
- 2) After the first wave runs up to the top of wave 1, it will pull back usually very quickly and violently and test the bottom and hold without making a new low. This is wave 2. Traders are still bearish and are short and thinking the market is still going lower. Some may even add to their shorts. Most short traders will now have their stops above wave 1.

- 3) The beginning rally of wave 3 is usually very slow and will finally make it up to the top of wave 1. Traders are still bearish and many have added to their short positions. There are a large amount of stops above wave 1. The rally of wave 3 continues and pushes above wave 1 where there are a tremendous number of stops. When these stops are hit the market explodes and many times gaps up because of order imbalances. The gaps are a main indication that you are in wave 3. The volume increases and many other traders get on the bandwagon and start to buy. Traders that were long at the bottom start to add to positions. Traders that were short that got stopped out decide that market is also going higher and they take long positions. At this time, the majority of traders are now long and the market is in a main trend up. Wave 3 is always longer than at least one of the waves 1 or 2 and it can never be the shortest wave of the three.
- 4) Finally the buying of wave 3 starts to subside and profit taking starts to come in. Traders who were long at the bottom decide to take profits, or they might put in close stops to protect their profits. This causes a general orderly pull back which is wave 4. Notice the differences between the wave 2 pull back and wave 4 pull back. Wave 2 was fast and violent and wave 4 was orderly. Gann knew what wave the market was in, because of the wave's characteristics. Most traders are still bullish in wave 4 and many take this opportunity to add to their positions and many that missed the entire move, decide to enter the market in wave 4. Wave 4 should never come down under the peak of wave 1 in cash markets, but it can come down 10 - 20% under wave 1 in futures markets, because of carrying and storage charges.
- 5) The market now starts up in its wave 5. It does not have the power that wave 3 had because of the stop buying and new initial longs being taken. When the market hits the top of wave 3, it usually goes through, but not with a lot of enthusiasm. The rally is very lackluster. The prices make a new high and that is the top of wave 5 and the market tops out.

Correction Patterns

Correction patterns usually consist of three waves. They come in two different categories: the simple correction and the complex correction. If wave 2 is a simple correction then expect wave 4 to be a complex correction. If wave 4 is a simple correction then expect wave 2 to be a complex correction.

The Simple Correction

The simple correction that which has only one pattern which is the zigzag correction. This is an a, b, c correction. Wave b will correct $\frac{1}{2}$ - $\frac{3}{4}$ of wave a. If it exceeds that correction then it is not a simple correction, but a complex correction. Wave a will always have a 5 wave pattern in the direction of the correction. Wave c will go below wave a. Wave c will be equal to wave a or 1.5 to 2.5 times of wave a. The way to know if you are in a zigzag correction is to determine if wave a has a five wave pattern.

The Complex Correction

The complex pattern consists of three different patterns:

- a) The flat correction where each wave is equal in length
- b) The irregular correction where wave b makes new high then drops to the beginning of wave a or below it. Wave b equals 1.125 - 1.25 of wave a. Wave c equals 1.5 - 2.5 of wave a.
- c) The triangle is where there are 5 subwaves of a, b, c, d, and e in the correction. Triangles are usually associated with wave
- d) When the market breaks out of the triangle, it usually does it with a big thrust in the same direction as wave three.
Using Wave Measurements is complete explained in the course manual. Please go over it carefully. Angle Projection is also extremely important. It is also completely explained in the course manual. Please study it carefully.

Using Extreme Highs and Lows

It is important that you use the extreme highs and lows in calculating all moves. Do not use closes as many Elliott wave technicians do. Gann always used the exact extreme high or low to calculate the correct move.

ELLIOTT Wave Example - Dec 91 Corn (See Chapter 7 in the manual) Examine this chart in carefully. Many of Gann's techniques are explained in the manual.

Chapter 6 answers

- 1) We can use three different basic angles to determine time and price within the markets: the vertical, the horizontal and the diagonal line.
- 2) In using mathematics for trading the markets, it is important to know that the market can go only two directions. It can go up or down or it can just move sideways.
- 3) One technique is using natural fixed numbers. These are the numbers that can be divided into the circle of 360 degrees. These are: 9, 18, 27, 36, 45, 72, 90, 120, 180, 270 and 360.
- 4) We can use three different basic angles to determine time and price within the markets: the vertical, the horizontal and the diagonal line.
- 5) The Gann wheel or the Square of 9 is constructed from the square, the circle and the triangle.
- 6) Did you know that geometric angles will hold only when the 5th, 3rd or C wave of a market is complete.
- 7) Geometric angles are used to measure time and price movements.
- 8) The market can be clocked in time in two different ways. One way is using trading days and the other is using calendar days.

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Chapter 8

The Time Factor

Gann said that time is the most important factor.

The most important factor in determining market movements is time. Time tells the trader when the market stops its trend and goes the other direction. If you know the time changes in the markets, your chances of success will be increased many times.

All time is determined from the circle of 360 degrees:

Divide the circle by 4 parts and you get:

360

270

180

90

You can break these numbers down even further:

45

22.5

11.25

Divide the circle by 3 parts and you get:

360

240

120

You can break these numbers down even further:

60

30

15

7

3.5

3 Times the odd and even numbers and doubling them is very important. Take 3 x 3 (the odd low number) and double them to get the following important numbers:

9
18
36
72
144
288

Take 3 x 4 (the even low number) and double them to get the following important numbers:

12
24
48
96
192

The number 9 is very important as it is the number that ends your count before you start over, see the following:

1 2 3 4 5 6 7 8 9

add 1 to get the next set

10 11 12 13 14 15 16 17 18 19

The number 7 is also very important. Many counts start over after the number 7. Also the following multiples of the number 7 are important:

7
14
21
28
35
42
49 very important

From your Gann Master's Course book you need to study:

When minor time trend changes occur.

When intermediate time trend changes occur.

When long term time trend changes occur.

Built up forces.

Harmonics and monthly moves.

Prices move faster the higher they go and changes in trend.

Lost motion when the market is in the strongest and weakest position.

Divisions of three, five and seven.

Overbalancing of time and space movements and the square of space and time and its duration.

The December corn example viewing the cycles and the time changes.

Chapter 9

Support & Resistance

Markets move between support and resistance.

In trading the markets, it is very important to know the important force of both support and resistance. Every top or bottom in the market has some relation to some prior top or bottom and it is mathematically based on that prior top or bottom. By using trend lines and time cycles with support and resistance levels, you can do much better in trading and know where to put your stop loss orders.

Range

Take the high price and the low price and divide it by odd and even or 3 or 4. If you want to go down another degree divide it by 6 or 8 or even 12 or 16 levels. When the market approaches these levels of support or resistance and is starting to show a possible change of trend, it is a place to either buy or sell. The halfway points are always the most important. The market will many times hold at these levels for 3, 5 or 7 days, 3, 5 or 7 weeks or 3, 5 or 7 months and give you a chance to buy or sell it. It depends on if the trend is minor, intermediate or major.

Read this chapter very carefully to learn how the market tops or bottoms. Look carefully at Exhibit 9.1 and 9.2. Learn also what happens when a market reaches the highest price ever. Learn what happens when a market reaches the lowest price ever.

If that market ever breaks into all time lows it usually is a good idea to short the market and go with the weak trend. The market is in its weakest position when it is making new lows. Everyone that is long the market has a loss and is anxious to get rid of their position when ever the market rallies. Many times the market does not rally when it makes new lows, it just goes lower. Many longs panic and get out of the market and the prices even go lower.

Read this chapter very carefully to see what happens when the market penetrates and resistance level. Also read and understand the importance of studying past action of support and resistance level to determine what it will go in the future and the importance of all time highs and lows.

Opens/Closes

Opens and closes are important to determine support and resistance levels. In strong bull markets there are never more than 2 days, weeks, months prices closing lower than the open. The market comes back to close higher than the open and continues its trend. In bear markets there will never be more than 2 days, weeks, months prices closing higher than the open. The market will usually close lower than the open to continue its trend. Watch the opens and closes especially near important support and resistance areas.

Learn in this chapter how January 3, 5, 7 can affect the direction of the market the rest of the year. Also study in this chapter about the years of extreme highs or lows and its importance.

Long Sideways Movements

Watch these time periods carefully. The market is usually just marking time while it squares out some prior top or bottom. When the market breaks out of this range, it usually is a major change of trend.

Study the Dec Corn (example) Support and Resistance Levels
In Exhibit 9.3. It explains a lot of Gann's timing.

All Time High

In all markets you should find the all time high and divide it either by odd 3 or even 2 or 4 to get important support and resistance areas.

All Time Low

You should also multiply the all time low by either odd 3 or even 2 or 4 to get important support and resistance areas.

Angles

Support and resistance lines and halfway points can often be used to draw Gann angles. If you have an important high or low you can put your Square of 90 overlay on a high or low and move it up or down to the various support and resistance line. You will be surprised how the Gann angle lines then hit. See the 45 degree angle that was drawn on March 28. When it broke, the market took a large drop into July.

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Chapter 10

Time and Price Overlays

"Gann's most important discovery"

In his last years, W. D. Gann said that one of his most important discoveries was the time and price overlay. By using it you could save enormous time in doing your calculations for determining the trend of the market. This chapter explores this most important tool.

When W.D. Gann discovered the important tool of the time and price overlay, we did not have computers. All charts were done by hand. It was very difficult to make a nice long term chart that you could effectively use overlays on. Today we have programs such as GannTrader and Chart Quick. Both of these programs produce excellent precision paper charts which can be used nicely with overlays.

By studying and learning how to apply time and price overlays to the various markets one can forecast market price and time swings long into the future. It is necessary to obtain long term historical market data such as in the form of Gann style charts which would include the open, high, low and close of the market. This should be on a daily, weekly, monthly and yearly basis. This information can be obtained from commodity year books, or any of the many historical data services. It is important that the data be linked together correctly. The most effective format of data is the Gann style which links data together from year to year. This means that December 1992 corn would be linked to December 1993 corn and December 1994 corn would be linked to the December 1993 corn on a continuous basis. Nearby continuities charts link the nearest futures contracts together. This provides a chart similar to the cash markets, but is not as effective in using the overlays. The cash markets and stocks do not need any linking method. They both work very nicely with overlays.

Types of Overlays

There are two kinds of time and price overlays one can construct to indicate resistance points in the markets. They are the permanent and the variable type. They can be used separately or together to indicate time and price resistance points. These overlays help one understand why markets move the way they do. The time and price resistance points formed from these overlays are permanent and do not change. You will learn through trial and error which permanent overlays should be applied to which stock or commodity.

The Vibration Number

Every stock or commodity has its own vibration number and that is what usually sets the square it works in. Learn how to find the vibration number in this chapter.

Also see this chapter for the highs and lows of commodities from the Chicago Board of Trader.

Natural Resistance Levels

Permanent time and price overlays are based on divisions of the circle. They can be applied to the measurement of both time and price. See in your printed course a list of the resistance levels based on the circle.

Overlays can be created based on the above numbers. Some traders have the entire set of overlays made up. They overlay each one on top of prices to find the one that best fits. Some times more than one overlay works. So it maybe necessary to use 2 - 3 overlays to guide you to the price trend.

This chapter also lists in the printed version the most popular overlays which are based on the above circle numbers. Study these carefully and make them up with clear plastic material and permanent market pens for plastic.

The basic square is drawn by dividing a square from all corners and sides into equal divisions. The corners are divided by odd number angles 3, 5, 7, 9 etc. This is because time is based on odd numbers. The sides are divided by even numbers of 2, 4, 8, 16, 32, 64 etc. This chapter explains these squares completely. Study it carefully.

Permanent Time and Price Overlays

Most permanent time and price overlays are based upon the numbers 1 to 9, but more specifically on the number 9 which is the number that represents the end of the number series upon which all numbers are based upon.

Variable Time and Price Overlays

Variable time and price overlays are developed around major tops and bottoms for a particular commodity or stock. Variable time and price overlays can be used together with permanent time and price overlays for time and price resistance levels and movement for a particular commodity or stock. You should study these overlays carefully and learn how the resistance and support point act on them at different levels. They are explained in the printed version of this chapter.

Also study in this chapter how to setup Variable Low and High Squares as well as Range Squares. Also learn how to combining squares for resistance points and learn about odd and even squares and halfway points.

Chart Scales

To make plastic transparency overlays use Exhibit 10.2 illustrated in this chapter. The pattern is in the scale of 12 x 12 to the inch and was created by the Quick Chart software program. If you use different grid paper or a chart service using another scale, you will have to modify them to adjust for the change of scale. Always try to use graph papers with square grid and avoid rectangular grid. It is advisable to use either Quick Chart or GannTrader to produce the charts for overlays because they save a lot of time and they are more accurate. You will find it necessary to obtain construction materials to create the various overlays you will require. These can usually be obtained at a local art or business supplies store.

The Importance of Charts

It is important again to stress that the bar charts you set up must be done according to time and price guidelines.

Important Future Months

The important future months should be watched for key signals. A good set of charts should include the key months of future contracts of the year in commodity future contracts. For example, in most commodities the 12th and 6th positions of the cycle of the year are important. These are December and June. The next important commodities are the 3rd and 9th positions which are March and October.

Scale

The scale is very important. The correct scale on a chart can be determined by how the overlays fit it. The 1 x 1 angle should usually hit the 50% reaction exactly.

Time Increments

The time increments are important. When trading correctly, you should have daily, weekly, monthly and yearly charts. If possible the chart should go back to the beginning of the contract. If that is not possible then you should at least have the all time high or low on the chart. Weekly charts are the most useful for long range trading.

Time and Price Labels

The calendar should be correctly labeled at the bottom of the chart indicating year, month and day. The price should be correctly labeled on the side with price divisions related to circle numbers if possible. Price divisions are the heavy horizontal guide lines on a chart.

Update Space

It is very important to have the necessary update space on your chart so you can do long range forecasting.

On a daily chart the update space should go out 1 year. On the weekly chart the update space should go out for 2 years and on a monthly chart the update space should go out for 5 - 10 years.

Time Frames

Man has learned to measure time with calendar periods. The larger the calendar period, the more important it is. Different time periods should be used to get the trend of the market. You should always know what direction each of the time periods is in. It will make you a much more effective trader. Watch closely for a change of trend in each time frame and trade accordingly. In order of importance the following are calendar periods most used:

Learn which are the important time frames in this chapter.

How to Use the Plastic Square Overlays in this chapter. Study this carefully.

Chapter 11

Table Charts

The Secret Behind Price Moves

Part 1 of Lesson 11

This chapter covers the important Master Table Charts. We will cover the 2nd part of this chapter next week. You were sent a disk in your course that contains most of Gann's Master Charts in electronic format. You need the program Microsoft Excel to effectively use this disk. This Excel template will save you hours and hours of time. Gann had to construct these charts by hand. With this disk installed in your computer you have them available in your computer and you can pull them up with just a touch of a button.

These table charts will help you to predict time and price chart movements. Interpretation of the charts is extremely important. This takes much skill and experience. The most effective way for you to learn how these table charts work is to use them and develop expertise in using them. It takes time and hard work, but you will eventually get a feel of how they work with the markets.

What is a table chart? It is a basically a mathematical sequence of numbers presented in various forms of design to aid the technician in forecasting both time and price movements in stock and futures markets.

In this part of the lesson, I will explain fixed table charts that are based on natural numbers. Those are the numbers that divide the circle. These table charts give you natural support and resistance points. Every stock or future has its own number that it works in. I have found that it sometimes works in more than one number at a time. This is because there are many markets that have more than one cycle affecting them.

The natural squares are the square of 3, 4, 6, 9, 12, 19, 20, 24, 27, 36, 52 and 90. These squares are on your Excel template that came with the course.

I am now going to illustrate how the squares work. I have a chart of July 99 Soybeans. I have placed the chart below. I have written the price of every high and low on the swings of the market. See the blue numbers.



July 99 Soybeans

Now I am going to show you the Table Chart of 27. See below.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AN	AO	AP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
1	21	54	86	118	150	182	214	246	278	310	342	374	406	438	470	502	534	566	598	630	662	694	726	758	790	822	854	886	918	950	982	1014	1046	1078	1110	1142	1174	1206	1238	1270	1302	1334	1366	1398	1430	1462	1494	1526	1558	1590	1622	1654	1686	1718	1750	1782	1814	1846	1878	1910	1942	1974	2006	2038	2070	2102	2134	2166	2198	2230	2262	2294	2326	2358	2390	2422	2454	2486	2518	2550	2582	2614	2646	2678	2710	2742	2774	2806	2838	2870	2902	2934	2966	2998	3030	3062	3094	3126	3158	3190	3222	3254	3286	3318	3350	3382	3414	3446	3478	3510	3542	3574	3606	3638	3670	3702	3734	3766	3798	3830	3862	3894	3926	3958	3990	4022	4054	4086	4118	4150	4182	4214	4246	4278	4310	4342	4374	4406	4438	4470	4502	4534	4566	4598	4630	4662	4694	4726	4758	4790	4822	4854	4886	4918	4950	4982	5014	5046	5078	5110	5142	5174	5206	5238	5270	5302	5334	5366	5398	5430	5462	5494	5526	5558	5590	5622	5654	5686	5718	5750	5782	5814	5846	5878	5910	5942	5974	6006	6038	6070	6102	6134	6166	6198	6230	6262	6294	6326	6358	6390	6422	6454	6486	6518	6550	6582	6614	6646	6678	6710	6742	6774	6806	6838	6870	6902	6934	6966	6998	7030	7062	7094	7126	7158	7190	7222	7254	7286	7318	7350	7382	7414	7446	7478	7510	7542	7574	7606	7638	7670	7702	7734	7766	7798	7830	7862	7894	7926	7958	7990	8022	8054	8086	8118	8150	8182	8214	8246	8278	8310	8342	8374	8406	8438	8470	8502	8534	8566	8598	8630	8662	8694	8726	8758	8790	8822	8854	8886	8918	8950	8982	9014	9046	9078	9110	9142	9174	9206	9238	9270	9302	9334	9366	9398	9430	9462	9494	9526	9558	9590	9622	9654	9686	9718	9750	9782	9814	9846	9878	9910	9942	9974	10006	10038	10070	10102	10134	10166	10198	10230	10262	10294	10326	10358	10390	10422	10454	10486	10518	10550	10582	10614	10646	10678	10710	10742	10774	10806	10838	10870	10902	10934	10966	10998	11030	11062	11094	11126	11158	11190	11222	11254	11286	11318	11350	11382	11414	11446	11478	11510	11542	11574	11606	11638	11670	11702	11734	11766	11798	11830	11862	11894	11926	11958	11990	12022	12054	12086	12118	12150	12182	12214	12246	12278	12310	12342	12374	12406	12438	12470	12502	12534	12566	12598	12630	12662	12694	12726	12758	12790	12822	12854	12886	12918	12950	12982	13014	13046	13078	13110	13142	13174	13206	13238	13270	13302	13334	13366	13398	13430	13462	13494	13526	13558	13590	13622	13654	13686	13718	13750	13782	13814	13846	13878	13910	13942	13974	14006	14038	14070	14102	14134	14166	14198	14230	14262	14294	14326	14358	14390	14422	14454	14486	14518	14550	14582	14614	14646	14678	14710	14742	14774	14806	14838	14870	14902	14934	14966	14998	15030	15062	15094	15126	15158	15190	15222	15254	15286	15318	15350	15382	15414	15446	15478	15510	15542	15574	15606	15638	15670	15702	15734	15766	15798	15830	15862	15894	15926	15958	15990	16022	16054	16086	16118	16150	16182	16214	16246	16278	16310	16342	16374	16406	16438	16470	16502	16534	16566	16598	16630	16662	16694	16726	16758	16790	16822	16854	16886	16918	16950	16982	17014	17046	17078	17110	17142	17174	17206	17238	17270	17302	17334	17366	17398	17430	17462	17494	17526	17558	17590	17622	17654	17686	17718	17750	17782	17814	17846	17878	17910	17942	17974	18006	18038	18070	18102	18134	18166	18198	18230	18262	18294	18326	18358	18390	18422	18454	18486	18518	18550	18582	18614	18646	18678	18710	18742	18774	18806	18838	18870	18902	18934	18966	18998	19030	19062	19094	19126	19158	19190	19222	19254	19286	19318	19350	19382	19414	19446	19478	19510	19542	19574	19606	19638	19670	19702	19734	19766	19798	19830	19862	19894	19926	19958	19990	20022	20054	20086	20118	20150	20182	20214	20246	20278	20310	20342	20374	20406	20438	20470	20502	20534	20566	20598	20630	20662	20694	20726	20758	20790	20822	20854	20886	20918	20950	20982	21014	21046	21078	21110	21142	21174	21206	21238	21270	21302	21334	21366	21398	21430	21462	21494	21526	21558	21590	21622	21654	21686	21718	21750	21782	21814	21846	21878	21910	21942	21974	22006	22038	22070	22102	22134	22166	22198	22230	22262	22294	22326	22358	22390	22422	22454	22486	22518	22550	22582	22614	22646	22678	22710	22742	22774	22806	22838	22870	22902	22934	22966	22998	23030	23062	23094	23126	23158	23190	23222	23254	23286	23318	23350	23382	23414	23446	23478	23510	23542	23574	23606	23638	23670	23702	23734	23766	23798	23830	23862	23894	23926	23958	23990	24022	24054	24086	24118	24150	24182	24214	24246	24278	24310	24342	24374	24406	24438	24470	24502	24534	24566	24598	24630	24662	24694	24726	24758	24790	24822	24854	24886	24918	24950	24982	25014	25046	25078	25110	25142	25174	25206	25238	25270	25302	25334	25366	25398	25430	25462	25494	25526	25558	25590	25622	25654	25686	25718	25750	25782	25814	25846	25878	25910	25942	25974	26006	26038	26070	26102	26134	26166	26198	26230	26262	26294	26326	26358	26390	26422	26454	26486	26518	26550	26582	26614	26646	26678	26710	26742	26774	26806	26838	26870	26902	26934	26966	26998	27030	27062	27094	27126	27158	27190	27222	27254	27286	27318	27350	27382	27414	27446	27478	27510	27542	27574	27606	27638	27670	27702	27734	27766	27798	27830	27862	27894	27926	27958	27990	28022	28054	28086	28118	28150	28182	28214	28246	28278	28310	28342	28374	28406	28438	28470	28502	28534	28566	28598	28630	28662	28694	28726	28758	28790	28822	28854	28886	28918	28950	28982	29014	29046	29078	29110	29142	29174	29206	29238	29270	29302	29334	29366	29398	29430	29462	29494	29526	29558	29590	29622	29654	29686	29718	29750	29782	29814	29846	29878	29910	29942	29974	30006	30038	30070	30102	30134	30166	30198	30230	30262	30294	30326	30358	30390	30422	30454	30486	30518	30550	30582	30614	30646	30678	30710	30742	30774	30806	30838	30870	30902	30934	30966	30998	31030	31062	31094	31126	31158	31190	31222	31254	31286	31318	31350	31382	31414	31446	31478	31510	31542	31574	31606	31638	31670	31702	31734	31766	31798	31830	31862	31894	31926	31958	31990	32022	32054	32086	32118	32150	32182	32214	32246	32278	32310	32342	32374	32406	32438	32470	32502	32534	32566	32598	32630	32662	32694	32726	32758	32790	32822	32854	32886	32918	32950	32982	33014	33046	33078	33110	33142	33174	33206	33238	33270	33302	33334	33366	33398	33430	33462	33494	33526	33558	33590	33622	33654	33686	33718	33750	33782	33814	33846	33878	33910	33942	33974	34006	34038	34070	34102	34134	34166	34198	34230	34262	34294	34326	34358	34390	34422	34454	34486	34518	34550	34582	34614	34646	34678	34710	34742	34774	34806	34838	34870	34902	34934	34966	34998	35030	35062	35094	35126	35158	35190	35222	35254	35286	35318	35350	35382	35414	35446	35478	35510	35542	35574	35606	35638	35670	35702	35734	35766	35798	35830	35862	35894	35926	35958	35990	36022	36054	36086	36118	36150	36182	36214	36246	36278	36310	36342	36374	36406	36438	36470	36502	36534	36566	36598	36630	36662	36694	36726	36758	36790	36822	36854	36886	36918	36950	36982	37014	37046	37078	37110	37142	37174	37206	37238	37270	37302	37334	37366	37398	37430	37462	37494	37526	37558	37590	37622	37654	37686	37718	37750	37782	37814	37846	37878	37910	37942	37974	38006	38038	38070	38102	38134	38166	38198	38230	38262	38294	38326	38358	38390	38422	38454	38486	38518	38550	38582	38614	38646	38678	38710	38742	38774	38806	38838	38870	38902	38934	38966	38998	39030	39062	39094	39126	39158	39190	39222	39254	39286	39318	39350	39382	39414	39446	39478	39510	39542	39574	39606	396

Notice the number I have placed between the highs and lows. See how these numbers line up with the following table chart of 6. By using this you can get an idea of approximately where the time of a move would stop.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	
1		12	15	24	36	51	69	91	117	147	180	216	255	297	351	408	477	558	651
2	6	11	17	23	29	35	41	47	53	59	65	71	77	83	89	95	101	107	113
3	4	9	14	19	24	29	34	39	44	49	54	59	64	69	74	79	84	89	94
4	3	7	11	15	19	23	27	31	35	39	43	47	51	55	59	63	67	71	75
5	2	5	9	13	17	21	25	29	33	37	41	45	49	53	57	61	65	69	73
6	1	4	7	10	13	16	19	22	25	28	31	34	37	40	43	46	49	52	55
7	1-1TABLE																		

Table Chart of 6

In the W.D. Gann Commodity course, he illustrated the NEW York Stock Exchange Permanent Chart pictured below. He used it to find the swings in this index. It was merely the chart of 20.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN																							
1	20	40	60	80	100	120	140	160	180	200	220	240	260	280	300	320	340	360	380	400	420	440	460	480	500	520	540	560	580	600	620	640	660	680	700	720	740	760	780	800	820	840	860	880	900	920	940	960	980	1000													
2	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440	450	460	470	480	490	500													
3	6	12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120	126	132	138	144	150	156	162	168	174	180	186	192	198	204	210	216	222	228	234	240	246	252	258	264	270	276	282	288	294	300													
4	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	72	76	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140	144	148	152	156	160	164	168	172	176	180	184	188	192	196	200													
5	3	6	9	12	15	18	21	24	27	30	33	36	39	42	45	48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	93	96	99	102	105	108	111	114	117	120	123	126	129	132	135	138	141	144	147	150													
6	2	4	6	8	10	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100													
7	1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50														
8	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50													
9	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50												
10	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50											
11	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50										
12	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50									
13	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50								
14	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50							
15	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50						
16	1	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50					
17	1	1	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50				
18	1	1	1	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50			
19	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50		
20	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

NYSE Chart

The chart still works in today's New York Stock Exchange Market. Send and questions about this chapter to: Chapter11@tradersworld.com

Part 2 of Lesson 11

The Square of 19 Chart

Exhibit 11.5 in the printed course, shows the square of 19 chart which is a very important table which is 19 up and 19 over. This square is often called the square of the circle because it proves the circle. The square of 19 x 19 ends at 361 which is just one over the 360 degrees in the circle. This illustration shows that when we reach the number 181 we are crossing the center and on the other side of the 360 degree circle. It is important to know that many price movements end with the square of 19.

The Square of 20 Chart

In Exhibit 11.6 in the printed course shows the number 20 which represents the number of trading days in the normal month, and the 18th division of the circle is quite important for measuring both time and price. This is the chart Gann used for the New York Stock Exchange. He called it his NYSE Permanent Chart.

The Square of 27 Chart

Exhibit 11.8 in the printed course shows the square of 27 chart 27 up and 27 over which ends at 729 is close

to 720 or 2 times the circle. Dividing each quarterly square then gives 15.19 years and the halfway point is 7.59 years close to the 7 1/2 year cycle.

The Square of 36 Chart

In exhibit 11.11 in the printed course, shows the square of 36 chart 36 up and 36 over which ends at 1296 is important for measuring all time and price movements and resistance points.

The Square of 52 Chart

The square of 52 chart which is 52 up and 52 across is a very important square representing the 52 weeks in a year.

The Square of 90 Chart

The square of 90 chart which is 90 up and 90 across which ends at 8100 is an important square. The number 90 is one quarter of the circle and adds up to the important number 9.

Variable Low Squares

Squares can be worked up for specific stocks and commodities based on their contract low. For example on December 28, 1932 March wheat had a low at 43 cents per bushel. The square or balancing of the price is 43 days, 43 weeks, 43 months. (See Exhibit 11.10 in the printed course)

Setting up Contract high Squares

Besides using lows to set up squares one can also use contract highs. Use the all time high of a particular contract for its balancing square.

Setting Up Contract Range Squares

Besides using contract highs and lows, contract ranges can also be used to set up balancing squares. March Wheat had an all time high of 6.45 and an all time low of .43. The difference between the two is 6.02. Therefore a balancing square of .70 ($5.59 / 8 = .6988$) per bushel can be set up to indicate resistance points.

Combining Squares for Resistance Points

It is important to combine the natural squares, especially the square of 9 and 12 with the contract high, low and range squares to indicate time and price resistance points for each stock or commodity.

Low/ High Number Squares /Natural Time Squares

It is possible to use contract low prices to determine intra cycle resistance points within a time period. For example March Wheat had a low on December 28, 1932 at 43 cents per bushel. A square of 12 with an intra cycle of 43 can be set up to determine the monthly future cycle points. See this section in the printed course for details.

Tritable Charts

The triangle table charts illustrated in this chapter were put in Gann's course, but were not explained. We have programmed the Excel spread sheet template to do these charts also.

Natural Time Square Intervals and Intra Cycles

Intra cycle contract high and low points can be set up within all natural time squares. Squares can be set up on the smallest interval 1/4 hourly points up to larger intervals of monthly points.

Natural Resistance Levels

Natural resistance levels are based upon natural law and can be applied to the measurement of both time and price. Set up based on the Base Numbers and Divisions of the Circles listed in the printed chapter.

The Vibration Number

Every stock or commodity will have its own vibration number that it trades by. It will trade within the square of that number. The number is based on one of several factors. See the explanation of this in the printed chapter and See Exhibit 11.14 in the printed course.

Numbers Given to Dates of the Periods of the Year

Stocks or commodities that started trading the following dates of the month are ruled by the numbers

indicated. They generally will be strongest during their dates or the periods of the year indicated.

Numbers given to Days of the Week

The following are vibration numbers given to the days of the week. Stocks or commodities will be strongest on the day that vibrates their number.

Day Number

Sunday 1, 4
Monday 2, 7
Tuesday 9
Wednesday 5
Thursday 3
Friday 6
Saturday 8

See the example in the printed version of the course on the way to tell whether a day will be favorable or unfavorable for a stock or commodity. It should be of great value to anyone who uses it.

Table charts are important for understanding the basis for all movement in the stock and commodity markets. Most of the theories learned in this chapter can be transferred to the study of bar charts. Study and apply the principles of this chapter to trading and you will be rewarded.

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If you have questions about this chapter email us at: chapter11@tradersworld.com

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Chapter 12

Time and Price charts

The markets vibrate around these charts.

This chapter goes into the explanation and use of Gann's master time and price charts. Perhaps the most interesting of these charts are the odd and even square charts. The odd chart is commonly known as the square of 9 and the even chart is known as the square of 4. The square of 9 has the number 1 at the center and spirals clockwise around the square. The even chart has four numbers in the center 1, 2, 3, and 4. It spirals counter clockwise around the square. Each of the chart's parameter is divided into dates and degrees of the year that go counter clockwise. Each circle of the square of nine ends with an number that squares out (9, 25, 49, 81, 121, 169, 225, 289 etc.). Each circle of the square of 4 ends with an even number that squares out (4, 16, 36, 64, 100, 144, 176, 256 etc.).

Which of the two charts to use depends on the total days in the contract from beginning to end. You must look up to see when the first day of trade was and look up the last day of trade. If there is an even number of days in the contract use the square of 4. If there are an odd number of days in the contract use the square of 9.

24	23	22	21	20	19
25	11	8	7	6	18
26	10	2	1	5	17
27	11	3	4	16	36
28	12	13	14	15	35
29	30	31	32	33	34

The beginning of the Sq of Four

31	32	33	34	35	36	37
30	13	14	15	16	17	38
29	12	3	4	5	18	39
28	11	2	1	6	19	40
27	10	9	8	7	20	41
26	25	24	23	22	21	42
49	48	47	46	45	44	43

This is the beginning of the Sq of Nine

The Sq of Four is called the even chart and the Sq of Nine is called the odd chart.

There are many different ways to use these charts. One useful way is to set the beginning day of trade at 1 in the center of the square. As the contract trades out in time, you can see resistance at the completion of each circle in the square. You can often tell which chart (odd or even) a commodity is following by where it ends in time. Use calendar days for this timing. The Excel template available to you has the ability to be configured into either entirely dates, numbers or a combination of both. That means you can set the center to the beginning data and price of the contract and easily see all of the resistance dates and prices all the way out. The center can also be set to a major low or high date of price to see all of the resistance dates and prices.

By the way the Gann Master Excel template has all of the electronic Gann Master Charts on it in electronic form. This means that you can change the center number and have all the numbers change in the entire chart. The following is available on this Gann Master Excel template:

- Fibonacci Projector
- Time and Price Projector
- Square of Nine
- Square of Four
- Circle of 12
- Circle of 18
- Circle of 48
- Triangle 1
- Triangle 2
- Octagon
- Hexagon
- NYSE Permanent Chart
- Table of 3
- Table of 6
- Table of 9
- Table of 12
- Table of 19
- Table of 24
- Table of 27
- Table of 36
- Table of 52
- Table of 90

These are in tab form, which means you just click the tab at the bottom of the Excel page to pull up the Gann Master chart.

See below:

_ PROJ / TIME&PRICE / SQ9 / SQ4 / CIR18 / CIR48 / CIR12 / TRI-1 / TRI-2 / OCT / HDX / NYSE PERM _

The following is the Square of Nine taken out to 441.

381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401
380	387	308	500	310	311	312	313	314	315	316	317	318	110	320	321	322	323	324	325	402
379	306	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	326	403
378	305	240	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	258	327	404
377	304	239	182	133	134	135	136	137	138	139	140	141	142	143	144	145	198	259	328	405
376	303	238	181	132	81	82	83	84	85	86	87	88	89	90	91	92	199	260	329	406
375	302	237	180	131	80	87	88	89	90	91	92	93	94	95	96	97	200	261	330	407
374	301	236	179	130	80	96	97	98	99	100	101	102	103	104	105	106	201	262	331	408
373	300	235	178	129	80	95	96	97	98	99	100	101	102	103	104	105	202	263	332	409
372	299	234	177	128	87	94	95	96	97	98	99	100	101	102	103	104	203	264	333	410
371	298	233	176	127	86	93	94	95	96	97	98	99	100	101	102	103	204	265	334	411
370	297	232	175	126	86	92	93	94	95	96	97	98	99	100	101	102	205	266	335	412
369	296	231	174	125	84	91	92	93	94	95	96	97	98	99	100	101	206	267	336	413
368	295	230	173	124	83	90	91	92	93	94	95	96	97	98	99	100	207	268	337	414
367	294	229	172	123	82	89	90	91	92	93	94	95	96	97	98	99	208	269	338	415
366	293	228	171	122	82	88	89	90	91	92	93	94	95	96	97	98	209	270	339	416
365	292	227	170	121	80	87	88	89	90	91	92	93	94	95	96	97	210	271	340	417
364	291	226	225	224	223	222	221	220	219	218	217	216	215	214	213	212	211	272	341	418
363	290	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	342	419
362	289	288	287	286	285	284	283	282	281	280	279	278	277	276	275	274	273	343	420	420
441	440	439	438	437	436	435	434	433	432	431	430	429	428	427	426	425	424	423	422	421

If you change the center of the chart for example on this Square of Nine chart to a top or bottom of a move, then you will get an indication of all the projected tops and bottoms in the market based on the fixed and the cardinal square positions on the Square of Nine.

Now I am going to use a chart of Soybeans to explain how to use this chart.



I will first change the center of the Square of Nine to 993 which was the low on the Soybean chart.

1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1290	1319	1386
1174	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1190	1251	1320	1397
1173	1124	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1138	1191	1252	1321	1398
1172	1123	1082	1049	1050	1051	1052	1053	1054	1055	1056	1057	1094	1139	1192	1253	1322	1399
1171	1122	1081	1048	1023	1024	1025	1026	1027	1028	1029	1058	1095	1140	1193	1254	1323	1400
1170	1121	1080	1047	1022	1005	1006	1007	1008	1009	1030	1059	1096	1141	1194	1255	1324	1401
1169	1120	1079	1046	1021	1004	995	996	997	1010	1031	1060	1097	1142	1195	1256	1325	1402
1168	1119	1078	1045	1020	1003	994	993	998	1011	1032	1061	1098	1143	1196	1257	1326	1403
1167	1118	1077	1044	1019	1002	1001	1000	999	1012	1033	1062	1099	1144	1197	1258	1327	1404

You will now see that the horizontal and diagonal lines on the Square of Nine which I have drawn from the center of 993, give you resistance and support for the market.

When the market gets through a resistance point, then it becomes a support point. As Gann mentioned, previous tops become support. It works the same way on the Square of Nine. Previous resistance points become support points.

Using excel, you can also change this chart into a time chart and make the bottom the date of the low and you will then see resistance and support on the way up in the form of dates.

There is so much in this chapter and it is very important. You must learn how to use the Square of Nine and Square of Four and when to use them. You also must learn how to use all the other Gann Master charts. You do this by checking historical data.

This chapter (the printed course) explains how to use the Square of Nine, the Circle of 18, the Circle of 24, the Circle of 24, the Circle of 24, the Hexagon Charts. Study them carefully.

Chapter 13

Forecasting Time

"Time is the most important factor" This is what the master trader Gann said.

One trader once told me that you can not trade a market unless you know where it is going. W. D. Gann was able to forecast time cycles with amazing accuracy. This chapter tells you how he did most of it. W. D. Gann believed that the future is but a repetition of the past. There are no new things under the sun. By studying the past one can forecast future cycles of the market.

The following are the master cycles of the market. Study them carefully, they are the secret to all markets. The printed course explains these cycles in detail. Study them carefully.

- The 120 Year Major Cycle
- The 100 Year Major Cycle
- The 90 Year Major Cycle
- The 80 Year Cycle
- The 60 Year Master Cycle
- The 49 - 50 Year Cycle
- The 40 Year Cycle
- The 30 Year Cycle
- The 20 Year Cycle
- The 15 year Cycle
- The 10 Year Cycle
- The 8 Year Cycle
- The 7 Year Cycle
- The 5 Year Cycle
- The 2 /12 - 3 1/2 Year Cycle

HARMONICS OF THESE CYCLES

All of these cycles have harmonic years. To fully understand how to get the harmonic cycles you must study the printed version of this course. The harmonic cycles allow you to know where the big cycles are occurring.

The 1 Year and Under Cycle

The cycles under one year are all based on the circle. The cycles inside of the year are the 45, 90, 120, 135, 144, 216, 240, 244, and 270. Study them in the course. The important cycles are explained.

How to Use the Cycles

The most important thing you can do is to watch how the cycles are working. Compare the current cycles with those of the past. Go back to each of the cycle years and compare them to the current ones.

Using Daily Charts for forecasting

Daily price movements give the first change of trend in the markets.

SHIFTS IN CYCLES

There are sometimes shifts in the major cycles several days from anniversary high or low days. This is caused by progression of time.

Beginnings of time periods (changing of trends)

Watch the first and third week of the beginnings of these important times of the year.

See the list in the printed course for other important times.

Yearly - Watch the first and third week of January

Semi-Annual - Watch the first and third week of July

Quarterly - Watch the first and third of week of April and October.

You should also divide the year into divisions and watch the first 5 days of each division for a change of trend.

Comparisons of Years Ending with Same Digit

Go back over the years and overlay all years that end in the same digit.

Reoccurring Cycles

The market normally makes the same amount of moves from it's peaks and troughs.

Ratios

It is also a good idea to use ratios between the following:

Fibonacci ratios work very nicely. These are the ratios that we have programmed into the Excel spreadsheet that you got with the printed course. See Exhibit 13.4. in the course. This is a picture of the Excel spread sheet module for wave forecasting based on those ratios. By inputting three dates in this spread sheet you can get the top to top or bottom to bottom time calculations. By inputting 2 dates in the spreadsheet you can get bottom to top and top to bottom calculations of timing points. See exhibit 13.4 and 13.5. in the course book.

.382
.500
.618
1.00
1.382
1.500
1.618
2.000
2.382
2.500
2.618

WAVE STRUCTURE

To be able to understand major cycles of the market, it is necessary to use wave structure of the market. Exhibit 13.1 in the course book is the basic Elliott wave pattern which must be understood to do proper cycle analysis.

TIMING BASED ON RATIOS OF WAVE STRUCTURE

Future timing points are based on ratios of prior tops and bottoms in the market. The Excel spread sheet is set up to calculate many of these ratios which will save you a lot of time. These ratios of course will be based on calendar days, not on market days. You will find that you might get away with just using the Excel spread sheet for these calculations because we have found that in many cases they both come up with close to the same dates. Study the various time ratios calculations with the examples in the course book.

USING MINOR TO MAJOR CYCLES

All of these calculations are based on the minor degree of daily chart data. These will give you only minor calculations of important pivot points.

SAME WAVE PATTERN

The program will calculate future timing points based on Fibonacci ratios from these tops and bottom.

PROGRAMMED RATIOS

From the number of days between the 1st, 2nd and 3rd or the 2nd and 3rd, the time sheet calculates ratios forward from the 3rd date. The ratios programmed in are as follows: See Exhibit 13.4 in the course book.

- 1) 0.382
- 2) 0.500
- 3) 0.618
- 4) 1.00
- 5) 1.318
- 6) 1.500
- 7) 1.618
- 8) 2.000
- 9) 2.382
- 10) 2.50

NUMBER OF DAYS

The Fibonacci ratios have the difference in days beside the date, so you can determine if the number of days is significant.

INTRADAY TIMING POINTS

The time sheet can also be adjusted to project intraday timing points down to the very minute.

USING CIRCLE NUMBERS FROM BEGINNING NUMBERS

The important circle number can also be used to forecast from important tops and bottoms.

HARMONICS OF BEGINNING NUMBERS

The harmonics of the beginning number can be used to forecast. See the course book.
square of 9 and 4 for time projection

We have also programmed into the Excel template the square of 9 and the square of 4 charts. These charts are an electronic marvel! They are 10 times better than any other Gann wheel, because you can change the center number to a beginning number or date for time and price projection. For time that number should be set a beginning date of a contract or of a minor, intermediate or major bottom. See Exhibit 13.6 in the course book.

USING THE CENTER WITH BEGINNING NUMBERS

The square of 4 should be used with a contract with an even number of days and the square of 9 should be used with a contract with an odd number of days. Experiment of with both squares to see which one is hitting the numbers better. For time set the center number to the beginning date of the contract. You will find resistance to advance at the end of each circle and at the Cardinal and Fixed Cross points.

Chapter 14

Forecasting Price

To be successful in trading you must know where price is going.

Price forecasting is one of the most difficult Gann techniques. In this chapter we will go into the techniques that are available. Many of the techniques are different, but in the end they come out to the same price projection.

Table Charts

One of the easiest ways of forecasting price is to the table chart. We have all the basic number formats programmed into the Excel template. In the Gann Masters printed course. These table charts work with the internal time structure of the market. See Exhibits 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7, 11.8, 11.9, 11.10 and 11.11 (in the printed Gann Master's Course).

Besides changing the number 1 position of the table chart to a bottom of a contract it can be left at 1. The resulting top, bottom and midpoints of the table chart are natural resistance points. For example using the table chart of 20 which is Gann's NYSE Permanent Table Chart (in the printed Gann Master's Course) every 20 points up is a natural resistance and support point of price. This is the number vibration the NYSE moves in.

Circle Charts

The circle charts programmed into the Excel template have an amazing ability to forecast price. They work in the same way the square table charts do, except that instead of price going up and down, price spirals around a circle. See Exhibits 12.3, 12.4 and 12.5. (in the printed Gann Maser's course).

Hexagon Chart

The hexagon spiral is based on the same principals of the square of nine. The charts start with the number 1 at the center and spirals around. See Exhibit 12.6. (in the printed Gann Maser's course).

Octagon Chart

The Octagon spiral is also based on the same principal of the square of nine. The chart starts with the number 1 at the center and spirals around the higher numbers. The chart has 8 points extending outward instead of the 6 points of the hexagon chart.

TriTable 1 & 2 Charts

The tritable charts 1 and 2 are another form of table chart which can be used to forecast price resistance and support levels. The tritable 1 chart has the number 1 at the bottom - this is the odd chart. The triable chart 2 has the numbers 1 and 2 at the bottom this is the even chart. (See Exhibits 12.12 and 12.13. in the printed Gann Master's Course).

Square of 9

The square of nine has become a very popular chart. It can be used in many different ways to forecast price. See Exhibit 12.1 in the printed Gann Maser's Course).

Beginning Price or Contract Low

The first way this chart can be used is the set the center number 1 at either the beginning price of the contract or a the contact low.

Natural Numbers

The second way to use this chart is to leave the center number as 1 and use the numbers at the end of each

circle as natural resistance numbers.

Gann Wheel

The third way to use this chart is to use the 360 degrees and dates around the outside and a plastic overlay (see Exhibit 12.8 in the printed Gann Masters Course) divided into the angles of 90, 120, 144, 180, 214, 240 and 270 degrees.

If rallies stop exactly on 90 degree lines and go back down, the main trend is down. If declines stop exactly on 90 degree lines and go back up the main trend is up.

If you keep the 0 point of the overlay on March 21 and look at the prices the angles of the plastic overlay hit, you will find that sometimes the dates on the outside of the wheel hits the same price that an angle is on at the same time. This is called time aspecting price. This is natural time and price resistance. You always check this particular use of the wheel, as it happens too many times to be coincidence. These are very strong points of support and resistance.

Square of 4

The square of 4 can be used exactly as the square of 9. In all aspects it is identical except that it is an even square instead of an odd square. |

Multiple Price Projections

While the square of 9 and 4 are excellent for giving resistance at the ends of natural circles which represent squares of the center, it is difficult to use these square with very many past lows and highs. One disadvantage also of the square of 9 and 4 is that they are designed for expanding waves and not for contracting waves. Contracting waves are when prices are coming down. Both the square of 9 and 4 are like a shell starting small at the center and getting bigger as prices get higher. To overcome these problems a sheet was designed to give multiple price projections and to allow for both expanding and contracting waves. This sheet also allows for Fibonacci price projections with counts of actual days. This is one of the most valuable sheets in the Excel template. Here is how the sheet works.

It allows for three prices to be placed in the spreadsheet on each row: 1st price, 2nd price and 3rd price. There are 8 rows down so it gives you a potential of 24 points to use for forecasting forward. It is very easy to add rows to this spreadsheet using the copy and paste routine, so you could actually add as many points as you wished. In each of these slots, you place past highs and lows of historical data. We have found it an excellent tool to place all the highs and lows of Elliott wave in this spreadsheet. Try to keep the same degree. For example make up one 8 row for the major degree which is a monthly chart going back 15-30 years. Make up another 8 rows for the intermediate degree which is weekly chart going back for 5 - 10 years. Then you should make up another 8 rows for the minor degree which is a daily chart going back 3 - 5 years. In this module also allows for variable lengths in projections. We have it programmed for the wheel numbers of 45, 90, 120, 144, 180, 216, 240 and 270. These can be changed to other counts. Excel will only do daily price projections, so for weekly and monthly, you will have to change these settings to multiples of the daily counts. For weekly projections you might put in much larger counts for example put in the following $45 \times 5 = 225$ days, $90 \times 5 = 450$ days, $120 \times 5 = 600$ and so on. For monthly counts you would put in $45 \times 30 = 1350$ days, $90 \times 30 = 1800$ days, $120 \times 30 = 3600$ days and so on.

The counts forward give you important probably future cycle points. The bigger the degree, the more important the cycle is. The biggest advantage of this module is that you can match up several futures dates that are within 3 days of each other. The more match ups you get the more important the cycle is. When you get a major, intermediate and a minor degree to match up to the exact date, you have a very important cycle.

This module can also be used to forecast forward price and time of a bottom or top. You set the 1st price to a major bottom, for example 225 in March 95 Corn. Now set the module to forecast forward the following: 225 hours, 225 days, 225 weeks, 225 months. Therefore you would set it to the following days: $225/24 = 9.375$, $225 \times 1 = 225$, $225 \times 5 = 1125$, $225 \times 30 = 6750$ days. When the points in time are reached check the price and if it is a multiple, harmonic or Fibonacci ratio of the bottom price, then it is a significant point. If the difference from that price and the bottom is a Gann circle number, then it is significant.

FIBONACCI PRICE FORECASTING

This module also has an important function of forecasting Fibonacci price points. This is how it works. If you want to forecast out the Fibonacci ratio in price of an A, B, C wave you would put in A as the 1st price, B as the 2nd price and C as the 3rd price. From the 3rd price the module will forecast forward a predetermine ratio of the C and (B - A). The Fibonacci ratios are .382, .500, .618, 1.000, 1.382, 1.5000, 1.618, 2.000, 2.382, 2.50 and 2.618. The module will also give you the difference in price between (B - A) and C. If it is a perfect circle number for example 45, 90, 120, 144 etc., then it price has more validity. If you make the 1st price equal to the 2nd price then you would be getting ratios between only the 2nd and 3rd prices. You would also be getting the difference in price between them. The more cluster of prices that match up in the 3 price projections the more it is a confirmation of an important future pivot point. These Fibonacci ratio numbers are variable, so you can change them to specialized numbers. (See Exhibit 14.1 and 14.2 in the printed Gann Masters Course).

PATTERN

One of the secrets of price forecasting is pattern formation. Knowing where you are in the pattern formation. The secret is that virtually all markets continually form the same price patterns If you know where you are in this pattern formation then you know everything you need to know to make big money in the markets. (See Exhibit 14.6 in the printed Gann Masters Course).

The square of 9 and 4 chart can also help you get an idea of the end of every wave. (See Exhibit 12.1 and 12.2 in the printed Gann Masters Course)

ABC Fibonacci Price Projecting

If you want to know how strong the market is and where a wave is going and where to take profits use the ABC ratio method. We have set up such a module in the Excel spread sheet for this purpose. (See Exhibit 14.3 in the printed Gann Master Course)

PROJECTING FROM SEVERAL SINGLE POINTS

One of the best methods of forecasting is to forecast time from a set of single points such as highs and lows. The Excel spread sheet can be used for this also. See Exhibit 14.5. TIMING FROM DOUBLE OR TRIPLE POINTS in the printed Gann Masters Course).

USING THE MASTER OVERLAYS

The master overlays should be used to forecast price based on market days. You should create the following overlays on clear plastic in the scale of your charts. 45, 52, 72, 90, 120, 144, 216, 240, 270, and 360. They should be used in two different ways. One is to place them on highs and low. This is using it the variable way. From every top or bottom the market will move 45, 52, 72, 90, 120, 144, 216, 240, 270 and 360 points.

The squares can also be used the fixed way in that on every major bottom you could place the square at 0 point and project upward for price projections.

The market will usually work in one of the natural squares of 45, 52, 90, 120, 144, 216, 240, 270 and 360. You must experiment to see which square it is working it.

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Chapter 15

EXCEL SPREAD SHEET

A necessity for time and price analysis

The Excel Spreadsheet is an excellent piece of software, necessary for the forecasting of both time and price using Gann analysis. This chapter explains how to use the program and the template that we have included in this course. Exhibit 15.1 is the picture of the Excel spread sheet that you get on your screen.

INSTALLING THE PROGRAM

It is necessary that you have at least a 486 IBM compatible computer with at least 4 MB of RAM and at least a 200 MB hard disk drive to use this program. You also need Microsoft Windows 3.0 or higher. It is suggested that the video card you use should be accelerated for windows programs with a resolution of at least 1024 x 768. It is also suggested that you use a 17" - 21" flat screen computer monitor with horizontal and vertical controls.

To install the program just insert the number 1 program disk into your disk drive. From the windows run menu access drive a and run setup. Follow the instructions and it will lead you through the setup of 5 installation disks.

When installation is complete you are now ready to install the Gann template into the program. Insert the Gann template disk in drive a. Pull up the Excel file menu. On it you will see 1 A:\GANN.XLS. Click this with the mouse and it will load the template into the Excel spreadsheet. Exhibit 15.1 will appear on your screen.

The Excel spread sheet is multi-tasking capable. That means you can run your windows chart program such as SuperCharts, TradeStation, or MetaStock or any other program and the Excel spread sheet at the same time. To switch between the two programs you just press CTRL and ESC at the same time. This takes you to a task list. From this you will see Excel and SuperCharts or any other program.. You can switch between the programs with the click of the mouse. This allows you to use both programs at the same time which is desirable for Multi-tasking runs quicker if you have at least 64 MB of RAM in your computer.

The spread sheet is graphically intensive. That is what makes it such a nice program for Gann time and price analysis. At the bottom of the screen, you can see OCT, HEX, NYSE PERM, TBL3, TBL 6, TBL 9, TBL12, TBL19, TBL20, TBL24, TBL27. These are the sheets that are programmed into the template. You can scroll back and forth as there are even more sheets programmed than you can't see. In addition to those in view, there are the TBL36, TBL 52, TBL 43, TBL 67, TBL 90, PRICE PROJ, TIME PROJ, OVERLAYS, SQ9, SQ4, FIB PROJ, CIR18, CIR24, CIR12, TRI-1 AND TRI-2 charts. You can instantly bring up any of the charts with a click of the mouse.

Table chart base cell number 1

All of the table charts have a base of 1 which can be changed to any number. All other cells in the spread sheet have a formula in their squares which changes automatically when you change the number 1 cell. The number 1 cell can be changed to the contract beginning price or a low contact price. All the other cells then increase by a factor of 1.

PROJECTION CHARTS WHITE SQUARES

The three projection charts which includes the PRICE PROJ, TIME PROJ AND FIB PROJ have programmed cells which should not be disturbed. The colored cells are programmed and the white cells are the only ones you can input numbers into.

Chapter 16

% swing charts

Swings charts tell you the direction of the market.

One of Gann's favorite tools was his swing charts. The rules for trading his swing charts are very simple. You can use swing charts to give you the trend of the market in the different degrees such as daily, weekly and monthly.

Gann's trend line indicator was a 1 day swing chart. In a rising market he keep moving his trend line up until the low of the prior day was broken. When that point was broken, he moved his trend line down until the high of the prior day was broken. The principal of his 3 day swing chart is the same. Keep moving the trend line up on a rising market until the low of the last 3 days is broken. When that low is broken move the trend line down until the high of the last three days is broken.

Gann used the 3 day swing chart to tell the main trend of the market and the 1 day swing chart for the short term. The two can be combined to make a good trading system, in that when the 3 day swing chart goes long use the 1 day swing chart to enter the market.

Swing charts can also be based on price instead of time. When the low of the prior day is broken by say 2 cents in corn the trend line turns down. The trend line stays down until the market reverses up over the prior days high by 2 cents.

To increase the effectiveness of swing charts you can also use both time and price in the formula.

Swing charts are effective for seeing a change of price trend both on the short term and the main trend.

Swing charts should be watched very carefully with the concept of overbalancing prior time and price points.

Time and price swing charts have many problems. They often give bad signals to the trader. Using past historical data our research has found that using price correction is not as effective as time calculation. Time, as Gann said is the most important factor. Percentage retracements of the last swing has proven to be more effective than price retracements.

Another way to check the market's strength is to do a check of the markets price and time swings in the direction of the main trend of the market.

To check the strength of the market's strength, you can also figure the market's percentage swing of the last two moves.

Many times when a swing chart is broken, it also gives another indication of a change of trend, such as a reversal day. This was one of Gann's favorite signals. There are three basic reversal days: A gap up and reverse day, a hook reversal and a key reversal.

So you can monitor both retracements and advances for their swing properties we have programmed a spread sheet module for this purpose. (See Exhibit 16.1 in the printed GannMasters Course.

With this spread sheet template you can put in the high and low of swings as the market is moving up.

When the market advances to a new high, the spread sheet will calculate the points move and the percentage of the move. This gives you an indication of the strength of the market. From this you can tell the strength of the market. This tells you that momentum is increasing or declining.

A swing chart can be set up based on the information coming from our spread sheet module. For example, if the price breaks under the prior 3 day low by 2 cents, if the market exceeds a 3 day reaction, if the market reacts more than 20% of the last move up, then start moving the trend line down.

This spread sheet can also be used effectively to spot when there is an overbalance of time, price and percent. When all three confirm an overbalance of time, price and percentage there is a major change of direction.

CHAPTER 17

Gaps

Gaps help to tell the future of market activity.

Gaps are the result of activity which causes prices to jump beyond the past days activity (the high or low of the last day) leaving an open gap. The open gap is usually caused by big buy or sell orders that result from a prior days government report on the market. It could also be caused by other factors such as overnight news from the overseas markets, weather reports and so on. Gaps were one of Gann's most important tools for reading the market.

Most gaps are ordinary in that they have no particular significance. They usually occur in the regular trading range of the market and are usually closed within a brief period of time.

Breakaway gaps are the gaps that breakout from a sideways trading range. These gaps are never filled and usually result in a fast move in the main trend of the market.

Measuring gaps usually occur in an accelerated trend of the market. The market is usually moving up or down with high volume. When these gaps occur, the market is very powerful and reactions against the main trend are almost nil. These gaps often occur in the fast third or fifth waves of the market. They many times become support or resistance areas. Most of the time these gaps can measure where the market is going. They are usually midway gaps. See Exhibit 17.1 in the printed course.

Exhaustion gaps usually occur in the last stage of a fast moving market.

Gaps are important to the experienced trader who can match them to the pattern of the market.

As you can see gaps can be very revealing as to where the market is going.

Chapter 18

Tops and Bottoms

Tops and bottoms of the market can be defined.

One of Gann's most important rules was to sell double and triple tops with a stop above the market and buy double bottoms and triple bottoms with a stop below the market.

The bigger the amount of time involved in the double or triple top, the more important the resultant move will be.

In our research we have found that double and triple bottoms are more common than double or triple tops.

With a double or triple bottom, rising bottoms are stronger than just flat bottoms. With rising bottoms, the market is showing that there is not enough weakness for the second or third bottom to get down to the bottom. Therefore the market is much stronger.

Buying the breakouts of a double or triple tops or selling breakdowns of double and triple bottoms is usually a very safe play as you are going with the direction and momentum of the market.

There is a method that works very well with Gann double and triple tops and bottoms. The method uses a displaced moving average. This method actually defines a double or triple top or bottom. In Exhibit 18.1 (in the course book) we show an example of December Cotton using a very tight 2 day moving average, the solid line, displaced to the right 2 days. The closing price line is dotted. In Exhibit 18.2 (in the course book) there is a blowup of the top of the market. It shows that the market made three tops at 1, 3, 5. Each time before it made the tops it had closed under the displaced moving average. Finally at point 6 the market closed under the low at 2. This broke the market down. This chart produced incredible profit in a very short period of time.

It's necessary to do back testing of prior tops and bottoms of the same commodity or stock to get the best working combination of moving average and displacement unit. What works in the past with a market, will usually work with a present market.

When the market makes a fourth attempt that results in a failure it will usually result to a fast move the other direction. Watch the fourth attempt closely.

Know where you are in the pattern of the market.

If a breakout occurs from a double or triple bottom, it is important that any reactions must not be over three weeks.

If the market makes three tops and then breaks down and then makes a fourth and fifth attempt which are lower lows, then the market is very weak and should break sharply.

This displaced moving average method of defining double and triple tops and bottoms gets you in the market safer than if you took your trade at the exact double or triple tops or bottoms.

Chapter 19

Volume & Open Interest

Volume and open interest is what drives the market.

Gann felt that volume and open interest was very important to indicate market direction. This chapter will explain how to use these tools for indications of direction of trend.

Volume is what drives the market. This indicates if there is increasing demand for the supply in the market.

Volume is the number of contracts that traded during the day.

If volume does not increase or decrease then speculators feel the market will remain steady. Volume usually remains steady in consolidation areas, usually at low price levels.

If price moves out of a consolidation area with increased volume, then there is a good chance that the price move will be the beginning of a good move.

If prices start to fall out of a consolidation area with increase volume it is significant.

If when price falls the volume starts to fall, then the market may be ready for a turn back up.

If the volume increases when price falls back to a base, it means that traders are buying it as they think it is a bargain. If volume increase when prices run up to a resistance area, it means traders are unloading it thinking price is too high.

Volume also increases when the market runs into stops. The floor traders often times run the market into these areas when they can. If the market has run up into stops and does not continue, then there is a good chance prices will fall back as it just got the weak shorts who had to put in close stops.

For a big trend to continue, the volume must continue to rise. Watch the volume closely as it will give you the clue to the market direction. Without increasing volume, prices will not continue to increase.

After a long advance in prices many times the volume increases dramatically because small speculators are jumping into the market near the top thinking that prices will continue up forever.

After a long decline in the market many times volume will dramatically increase because the public who have been long the market and losing lots of money are finally giving up and throwing in the towel.

When prices break out of a consolidation area and make their first advance and then decline, if the volume runs up and then declines it is bullish.

When prices break down out of a consolidation area and makes their first decline and then makes the first correction back up, if it decline is on heavy volume and the retracement back up is on declining volume then this is a good indication for a good move down.

Open interest is when there is a new buyer of a contract and a new seller.

When prices increase with rising volume and open interest increases this is a further indication that the market will rise. Having all three rise is very bullish.

If prices are rising, with rising volume and decreasing open interest, then it is a good indication that there is

short covering in the market.

If prices are stable and open interest is rising there is a good indication that positions are being accumulated.

If prices are stable and open interest is stable, there is no indication of any change of trend. Look for the market to break out of a consolidation range with rising open interest and volume to change this stable condition of the market.

If prices are stable and open interest is falling then there is a good indication that the market is losing interest and the public is going elsewhere.

Chapter 20

Gann Channels

Did you know that Gann, probably the greatest trader of all time used geometric angles on important tops and bottoms to indicate the true trend of the market. The angles were then paralleled to make the important Gann channels.

What were the angles he used to do this?

They were the 1x8, 1x4, 1x3, 1x2, 3x4, 2/3, 1x1, 4x3, 3x2, 2x1, 3x1, 4x1 and 8x1.

Also please note that a 45 degree angle is different than a 1x1 angle. See the next issue of Traders World coming in 4 weeks from now. There is a complete article about this.

In Exhibit 20.1 and 20.2 in the printed Gann Master Course you can see how these angles are used. These angles actually determine all important tops and bottoms. These angles do another thing. They divide time and price into proportionate parts.

How far should you draw a Gann angle. The distance should be based on where the angle is drawn from. For example, at a bottom of 72, the market will move up 72 hours, days, weeks or months. Look carefully at these angles. They tell you the trend of the market.

The angles should be drawn off of the 0 point - 1 square up at a time. This allows you to accurately square time and price on the chart.

You can use a fast MACD and a slow stochastic on your charts to determine where to buy the bottom against these angles and parallels. In most cases the MACD will get above the center point, putting the market in a strong position and the stochastic will drop down to the 20% line and give a double bottom with divergence.

Chapter 21

Types of Orders

The method of entering of the market can affect your profits.

You need to have a consistent plan for entering and exiting the market. There are different types of orders for entering the market. The orders you place will be designed for two purposes. One to enter into a new position and to exit or stop out of your current position with a stop loss. The following are the types of orders you can use:

Market Order

When you use this type of order, you want the floor broker to fill your order immediately without any delay in time.

OR BETTER ORDERS

With this type of order, you want the floor broker to fill you at the price you put on the order or even better than you put.

MARKET- IF -TOUCHED ORDERS

A market-if-touched sell order is placed below the indicated price on the order. If and when prices go up and hit that price, it is filled at the market.

MARKET-ON-CLOSE

This type of order is used if you want out at the market in the last closing minutes of the day. Your order becomes a market order and fills at any price at the close of the day.

ONE-CANCELS-THE-OTHER

With this type of order you can put an order in at a certain price and another order in a price. If one of the orders is filled the other order is cancelled.

STOPS

Gann constantly said, always put a protective stop loss in the market as the market could turn against you anytime. Forecasting the market is all probabilities and therefore you need protection, just in case the market doesn't cooperate with you. This protection is necessary to preserve your capital. Gann felt that the stop should be placed as soon as your entered your buy order.

Time Stops

Many traders use a time stop. The exchanges won't accept them, but they can save a lot of money. With this type of stop, if the market does not give you a profit within a certain time period, for example 3 days, you simply exit the position.