

TWO HANDED SPORTS
HIDDEN X FACTOR

by

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May 2011

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About the Author

Michael Holden has been in the golf industry for over 27 years as an administrator, coach and part time player. As an Australian PGA Member for 26 years Michael has mainly been based in Australia but has also had some teaching and management experience in Asia. Michael has served in a range of positions at The Lakes Golf Club, Concord Golf Club, Riverwood Golf Club, Moore Park Driving Range, Singapore Island Country Club, Cypress Lakes Resort and Maitland Golf Club.

Whilst coaching has never been Michael's main focus in his appointments it has always been a part of his duties and he has amassed an amazing amount of experience across all levels of the game. From private tuition to clinics Michael has taught over 9,000 students and has furthered this teaching experience with study in a range of areas relating to golf and other sports.

A keen sports enthusiast Michael has played and been a spectator of many sports over the years. With his understanding of the golf swing he has used that knowledge in analysing human movement in other sports and the parallels that exist in a range of actions. Coupled with this study of the mechanics of many human actions he has also analysed how the human brain helps to control movements. He has also drawn some conclusions as to how the movements of general life and specific training can affect any given action required to play sports.

Michael is currently the Director of Golf at historic Maitland Golf Club in the Hunter Valley of New South Wales, a position he has held for over 14 years. He is still immersed in the golf industry and coaches golfers across a range of abilities virtually every day.

Acknowledgements

The author wishes to express sincere appreciation to the following people for their assistance indirectly and directly in the preparation of this manuscript. In addition, special thanks to my wife of twenty plus years Angela, my son Ryan and daughter Kiera, thanks for putting up with my manic sports enthusiasm.

- My immediate and extended family for your support, particularly my mother Margaret, father John and sisters Sue and Jenny. My cousin John Brewer and Aunty Lil who helped nurture my early development in golf at Concord Golf Club.
- My teachers, mentors and employers, all Australian PGA Professionals, in Richard Flood, Bruce Jackson, Klye Francis, Ross Herbet, Max Hawkins, Gary Edwin and Neil Anderson for their support and knowledge over my early years in golf.
- Max Garske, former CEO Australian PGA, for formalising the education of Australian Golf Professionals and for letting me finish my PGA Traineeship, possibly when I should have been asked to leave.
- Craig Moylan, left hand golfer but right handed human for one handed actions, for his help and advice with all things computer related and the Two Handed X Factor website.
- Left hander, Greg Norman for inspiring generations of Australian golfers including myself. If you read this paper Greg, apologies for drawing attention to some of your errant shots.
- Left-handed human and right handed golfer, Ben Hogan, who fought back from adversity to still perform amazing feats on the golf course and for penning his approach to golf.
- Hank Haney for his thoughts and approach to the golf swing.
- David Leadbetter for his thoughts and approach to the golf swing and for giving me the confidence to publish the following findings.
- Australian cricket legend and Australian selector, David Boon, for his thoughts on cricket.
- To Maitland Golf Club, its Members and Committees, for putting up with me for the last 14 plus years. I haven't been treating you like lab rats, honest.
- To my fellow PGA Professionals John Onions and John Hufton for their input in this paper and for listening to my sporting theories for twenty seven plus years.

Introduction

This paper is presented on sports people who participate in sports which require two hands to help deliver power and maintain control of the given action.

The sports covered in varying degrees in this paper are golf, cricket and baseball, although there are observations and applications to other pursuits including hockey, lacrosse and hurling. The findings only scratch the surface as to the total number of people participating in these sports and do not encompass statistics for all sports people.

There exists a statistical anomaly between the total number of sports people who should approach two handed sports opposite to their one sided tendencies compared to the number of these people who excel at a Professional level.

Sports people playing these two handed sports have a distinct advantage if they are:

- Naturally left handed with one handed movements encompassing power and control, but play two handed sports right handed

or are
- Naturally right handed with one handed movements encompassing power and control, but play two handed sports left handed.

The sections, limbs and muscles of the human body all play an important part in any sporting action; the one part of the body that controls all of these actions in any of these endeavours is the brain. How the brain either consciously or sub-consciously controls these functions in sports people is a pivotal factor in determining how well an individual will make these actions work. Sports people who approach two handed actions, reverse to their one sided tendencies gain an advantage in reflex time and then mechanically also in strength.

The findings in this paper provide a direction for potential players of these sports, as well as parent's, coaches, mentors and talent scouts on how best to approach and analyse the actions required.

Statistics and information included in this paper was derived from research and data gathered from a number of sources via the internet and written publications, some of which has been formed into data and is attached as appendices.

CHAPTER 1

Raise your hand

Which side of a human's body dominates with power and or control of everyday single handed actions? Whilst this is not an earth shattering fact, almost every able bodied human on the planet is either right or left handed.

The definition of right or left handedness is the "*unequal distribution of fine motor skills between the right and left hands*". Right handedness is defined by people who are more dextrous with their right hand; left handedness is defined by people who are more dextrous with their left hand. Cross dominance, or mixed handedness is being able to do different tasks with greater dexterity with different hands. Ambidexterity is exceptionally rare, and is defined by people who can do any task equally well with either hand.

Approximately 86% of humans are right handed with around 14% being left handed. A total of 2% of both right and left handed people are cross dominant, with 1% of the world's population being truly ambidextrous.

The statistics on right and left handed rates of humans do vary dependent on the source, from 90% right to 10% left to 82 % right to 18% left. As a mean average the initial statement sets a base line. Of the total number of inhabitants around 2% of left or right handed humans are cross dominant given everyday tasks to perform, if you add to this the 1% of truly ambidextrous people, this makes a group of 3% of cross dominant or ambidextrous humans.

To pick up a heavy object; to brush ones teeth; to thread a needle or to throw or kick a ball, which side of the body instinctively achieves the objective. Further to these movements, which side of a person's body does a reflex action come from? To protect your face from an approaching threat or stop yourself from falling over which side of your body's limbs would you raise first?

In determining which side of the body is dominant for the purposes of this paper, which hand a person writes with is not always a window as to which side of their body leads actions requiring power and control. Dependant on where, how and at what point in human history they were educated they may be left-handed, however were taught to write with their right hand. In the days when humans wrote with quill and ink, as opposed to the ball point pen, they were taught to write right handed so that they did not drag their left hand through the wet ink.

THE BRAIN

The human brain, as stated by Scott Huettel from the Centre for Cognitive Neuroscience at Duke University, *“is the most complex object on the planet”*. The brain is *“wired up”* in each individual in a myriad of different ways, to the end that all fields of Neuroscience cannot explain why certain actions are performed in each individual as they are. Instinctive actions performed by humans are dependent on how an individual’s brain is *“wired up”* in the main, and then as to the environment that a person will grow, be nurtured and then practice in.

When a human is born the first operations of the brain are initially genetic and then learnt, dependent on the environment of that individual. Up to the age of around three humans are still determining as to whether they are right or left-handed, or possibly cross dominant or ambidextrous. As to which side of the body that a human ends up favouring, other factors including the people that they are modelling themselves on, being taught by; or by cultural and religious practices, can all play a role.

A humans mirror neurons in the brain are most active up to the age of five in copying and working out how best to navigate the planet and its inhabitants, in movement and communication. This is the time when many of the skills we need to function are being *“hardwired”* into the main three sections of the brain in either, the brain stem, the cerebellum or the cerebral hemispheres, both right and left. These movements and skills encompass strength, control, reflex actions and communication all working in combination.

There are, of course, more subsections of the brain with 100 billion cells each sending 1000 to 10,000 synapses per day. Synapses are the junctions across which a nerve impulse passes from an axon terminal to a neuron, muscle cell, or gland cell. This neo cortex of the brain makes roughly 100 trillion connections per day in the average human with this information being transferred over 90 million metres of wiring packed in with other tissue. The brain, encompassing all its sections, occupies about one and a half litres of volume in the average human skull.

Through initial human development, and as a human continues to grow, a dominant side of the body is developed in line with the right to left statistics previously stated. Around 2% of right or left sided human’s will action base movements with either their right or left sides making them cross dominant, with a rare 1% of people being truly ambidextrous.

As to how the brain basically transfers all this information, in a right sided human the left cerebrum controls the right side of the body and the right cerebrum the left side. In left sided humans it is obviously reversed, with cross dominant or ambidextrous humans having their right cerebrum control their right side and their left cerebrum control their left side to varying degrees. These commands all work in with proprioception, or kinaesthetic sense, which is the sense that indicates whether the body is moving with the required effort, as well as where the various parts of the body are located in relation to

each other. The cerebellum of the brain controls this sense which is often referred to as “*muscle memory*”. The muscles of the human body don’t have a memory as such, however the cerebellum in the brain which helps control these muscles does.

In a study for the French Institute of Sport, French Neuroscientist Guy Azemar concluded that left handed sports people had an advantage as the two halves of their brains were wired up more evenly. In the study that was conducted on the sports of tennis and fencing, he concluded that having the process of seeing a target and having it dealt with by the same hemisphere of the brain afforded that player an extra 20 or 30 milliseconds in reaction time. This is an interesting point when considering a dominant side of the brain, and how information is transferred to the body, as to which way some humans approach two handed actions.

EYE DOMINANCE

Which eye is dominant in humans will also have an effect on reaction time and then the messages that are being relayed to the brain. Virtually all humans will develop a dominant eye through the course of their life. The eyes are of course the “*window to the brain*” that feed it with a large proportion of the information required to function in many sports.

Ocular dominance or eye dominance is the tendency to prefer input from one eye to the other. It is partially linked to right or left handedness, however the side of the dominant eye and the dominant hand do not always match, and this is because both hemispheres of the brain control both eyes. Each eye takes charge of a different half of the field of vision, and therefore a different half of both retinas. As studies have shown there is thus no direct correlation between eye dominance and handedness.

Approximately two thirds of the Earth’s population is right eye dominant and one third left-eye dominant, with a small portion of the population having neither eye dominant. Eye dominance is sometimes categorised as weak or strong. In normal vision there is a parallax effect and therefore the dominant eye is the one that is primarily relied on for precise positional information, this is especially important in sports which require a human to aim at a target.

It has also been asserted that cross dominance, in which the dominant eye is on one side and the dominant hand is on the other, is advantageous in sports requiring side on stances. Interestingly in some recent studies of professional baseball players, hand ocular dominance patterns did not show an effect on batting averages. Similarly, studies of South African professional cricketers also found that they were not more likely to have cross hand ocular dominance than the normal population. Whilst these conclusions have been tabled, the dominant eye must play a part in supplying the brain with the information needed to perform a given action.

PUT YOUR HANDS TOGETHER

Now most of the facts stated so far are for humans performing tasks with one side of their body. When both sides of the body are required to perform a task, and particularly two hands, what then happens?

How does a humans one sided tendencies, their brain and their eye dominance all work together to perform the action. What does the average human do to initiate and complete the task set before them and what does their brain and its genetic and learnt behaviour compel them to do? Do all humans follow their one sided tendencies, or do some humans do something different?

CHAPTER 2

Oh No! – Two Hands

There are many statistics available on the rates of human beings on the planet and whether they are right handed, left-handed, cross dominant or ambidextrous. However, there were no real statistics that I could find on what humans do when two hands are placed on an object that requires power and control.

In the absence of reliable research and proven statistics for humanity, I believe that in line with the combined group of cross dominant and ambidextrous people around the world, about another 3% of right or left sided humans approach two handed actions opposite to their one sided tendencies. In basic terms this 3% group of people, who react to a power or control movement with one side of their body in general life situations, will instinctively revert to the other side for two handed actions.

This 3% of left or right sided humans will, when two hands are placed on a sporting implement, be they golfers, batsmen in cricket, batters in baseball, hockey, lacrosse and hurling will instinctively stand on the other side to make the action. The cross dominant or ambidextrous group of humans at another 3%, based on very simple logic, would have half who would approach two handed actions left handed and obviously half right handed, even though one side of their body may lead many of their everyday actions.

In some two handed sports, access to equipment and the sports rules can prevent a person from following their natural instincts. If a left sided human wished to play golf left-handed, but only has access to right handed clubs they will adapt and train themselves to make an action in that fashion, as has happened frequently in golf history .

As cricket, baseball, ice hockey and lacrosse equipment can be easily used right or left sided, it easier for humans to follow their instincts in these pursuits. Field hockey has rules that state that players must strike the ball from the right side only thus possibly inhibiting a certain number of left handed participants. These challenges can affect the natural process either negatively or positively. It is dependent on the sport, the equipment available and their natural predilection to the action that is required.

These statistics and assumptions become more interesting when a base line for humanity is established. If only 3% of human's approach two handed actions in an opposite fashion to their one handed preference, and you include half the number of cross dominant or ambidextrous humans at another 3%, this accounts for only 4.5% of people who approach two handed actions in this manner. For the purposes of a base line statistic for this paper, let's round up that 4.5% figure and say that 5% of the general population approach two handed actions in an opposite fashion to their one handed movements, and that 95% will approach two handed actions as they would their one handed movements.

At an elite level in sports that require two hands, and thus leading side movements, how many players have and currently approach these actions in reverse to their one handed tendencies? Do these people have an advantage at these actions in the sports outlined and how do all these skills work together to enable this to happen?

CHAPTER 3

Sports and Numbers

The statistics quoted in the following chapter have by no means been an exhaustive appraisal of every human to participate in two handed sports. Only statistics from some elite levels have been, in each of the sports covered, analysed and to that end not to a finite degree.

As established previously for the human race, I believe that 95% of humanity approach two handed actions the same way that they approach one handed movements, and that 5% approach two handed actions in an opposite manner to their general one handed actions.

With this statistic as a starting point, following is some analysis for select groups of elite sportspeople across golf, cricket and baseball. There is no statistical analysis of players in field hockey, ice hockey, lacrosse and hurling, just some observations of these four pursuits.

GOLF IN GENERAL

Golf was initially the main focus of this study, however upon analysis this paper has rapidly expanded to include most two handed pursuits. I have tried to play golf, all be it inadequately for over 30 years, and have taught it in varying forms for some 27 years since commencing my PGA Traineeship in 1985.

It perplexed me in my early years of coaching as to why randomly, some people played golf right handed but were left handed for one handed actions and some were left handed but wanted to play right handed. This situation in my coaching didn't arise very often, however I always made a mental note, to that end I became able to pick the people, both male and female, who were swapping over as they took to the action of a golf swing a little too easily.

I must admit that I have not kept a firm written record of the number of people that I have taught across clinics and individual lessons over the years; however it would conservatively be in excess of 9,000 students. Of this group I roughly estimate that around 450, or about 1 in 20, would have approached the game in the opposite fashion to their one handed tendencies. I don't have a recollection of the rates of male to female students from this group.

I again have never kept a record of right to left hand golfers, however according to a 2007 National Golf Foundation (NGF) consumer survey 7.4% of adult American golfers play left-handed. How many of those lefty golfers in the NGF survey are basically right-handers, who find it more natural to play two-handed sports left-handed, is unknown. On the flip side of this statistic how many of the 92.6% of right handed golfers who play are left-handed, who find it more natural to play two-handed sports right-handed? There are no statistics available that can differentiate between these two groups.

Further to defining these groups is an explanation by Henry Gulliton in an article written for “The American Golfer Magazine in June 1928” entitled “*Southpaws*”, Henry quoted the following;

“...There exists three very distinct varieties of the southpaw, two of them radically different from the common or garden variety.

These are:

- 1) The left-hander who plays from his left side—the common type.*
- 2) The left-hander who plays from his right side.*
- 3) The right-hander who plays from his left side.*

The first and third varieties are commonly classed as southpaws, but the unit of the second variety, which perhaps embraces the best players of the species, is erroneously accepted as a right-hander, although really, of course, he is less of a right-hander than his brethren in the third classification.”

In addition to Henry Gulliton’s explanation of how people approach golf, are the following quotes from a collection of elite players and teachers of the game. All relate to the importance of the left side in the golf swing, obviously in relation to people playing golf right handed.

Chi Chi Rodriguez quoted in the Dallas Times Herald in 1987; *“I think if you do research you’ll find most of the great golfers were left handed.”*

Tom Watson is quoted as saying; *“The left side establishes the radius of the golf swing. For the swing to be successful, the left side must guide the action from start to finish.”*

Bob Toski is quoted as saying; *“I keep hearing people who should know better, teachers and talented tour players among them, say that golf is a right-sided game. I want to set the record straight once and for all. To start with, played properly, golf is a two-sided, two-handed game. But just as you need someone to govern the land or lead the band, the golf swing has a leader too--and it’s the left side, not the right.”*

Hollis Stacy winner of 3 US Woman’s Opens; *“My left hand leads from start to finish. I come down hitting against the firm left side braced by the last three fingers of my left hand.”*

Byron Nelson was quoted as saying; *“On the backswing you should feel that you are starting the club back with your left side moving together with your left hand and arm. The left hand must be firmly in control. The relaxed right side is just pushed out of the way.”*

Dick Aultman, Golf Digest instruction editor has said; *“There is more or less a direct correlation between improved scoring and the degree that the left side muscles are trained to dominate the backswing.”*

Joe Norwood the author of "Golf-O-Metric"; *"There is nothing better for good golf than an extended left arm during the swing. Without this holding power it isn't possible to handle a club lightly and swing without effort."*

Bobby Jones said in his book "Bobby Jones on Golf"; *"In my conception of the stroke it is always the left arm that should be the guiding member. In the case of nearly all good players, it is the left arm that starts and controls the direction of the stroke until it comes time to hit."*

Byron Nelson said in his book "Shape Your Swing the Modern Way"; *"I don't know of a good player out there today who doesn't control the swing with the left side. By 1936 I felt I was controlling the backswing with the left side. But I knew I was getting the power from the right side, not early in the swing but late."*

Lee Trevino said in his book "Groove Your Golf Swing My Way"; *"I don't think most amateurs realize the tremendous left-hand control the pros have built up over the years of hitting several hundred thousand golf shots. I agree that the right hand is necessary for power in golf, but I also feel that for most weekend golfers too much right-hand dominance--or better yet, too little left-hand control--is the major reason why they find it so difficult to put that clubface solidly into the back of the ball with any degree of consistency."*

Ben Hogan was quoted as saying; *"reverse every natural instinct and do the opposite of what you are inclined to do, and you will probably come very close to having a perfect golf swing".*

Ernest Jones was quoted as saying; *"Understand that golf is neither a right handed nor left handed game, but a two handed one".*

As so many have said the importance of the leading side in the golf swing is pivotal to its success. With observations, quotes and theories from a collection of famous golfers, coaches and observers of the game aside, the analysis of some data from men's and then women's Majors in the following creates some interesting findings.

MEN'S GOLF MAJOR'S AND SOME OBSERVATIONS

Analysing Men's Major Championship winners in golf in the British Open, the US Open, the US PGA and the US Masters the statistics are compelling. Up until the end of 2010 there have been 415 Majors played since the first British Open in 1860, the first US Open in 1895, the first US PGA in 1916 and the inaugural Masters in 1934. There were obviously years where some of these Championships were not played due to World Wars and the 1871 British Open, when controversy over the administration of the event saw it unable to be played.

Of the 415 winners of these events only three players have played left-handed, they are Bob Charles, Mike Weir and Phil Mickelson. This group of golfers obviously stands out and is easy to highlight from every other Major Winner. It is well documented that they all perform one sided actions with their right side.

Bob Charles had one Major victory in the 1963 British Open, Mike Weir in the 2003 Masters and Phil Mickelson in the 2004, 2006 and 2010 Masters and the 2005 PGA. Only six of the 415 Majors have been won by left hand golfers, all of who are right handed for their one handed movements.

Bob Charles said in his book *"Left-Handed Golf"*, *"I cannot see anything odd about my playing the game left-handed. In fact, it is 'natural' for me to hit the ball this way, and the truth of the matter is that I am otherwise a right-hander,"* *"The only time I do things as a southpaw is when I hold an object with both hands, such as a baseball bat or cricket bat and a golf club."*

Mike Weir, Golf Professional and amateur ice hockey player, famously wrote to Jack Nicklaus in 1984 at the age of 14 to ask "which way he should approach golf". He posed the question that whilst being right handed he had a more powerful ice hockey shot when firing left handed. Jack obviously advised Mike correctly as to the best approach for his golf and Mike keeps Jack's framed letter at his home to this day.

Phil Mickelson wrote in his book detailing his winning round at the 2004 Masters, *"One Magical Sunday"*, *"I've always been naturally right-handed. Virtually the only thing I do left-handed is swing a golf club,"*

With the left handed group established, this now leaves 409 Majors won by right handed golfers up to the end of 2010. I haven't had the time or the research capabilities to establish all of the other 409 winner's preferences to one handed movements in their general life. I have confirmed however, through biographies, articles, common knowledge and observation that a least another 107 Majors have been won by right handed golfers who perform one sided actions left-handed, or at the very least were or are, cross dominant or possibly ambidextrous. This information is outlined in Golf Data and Figures.

A number of these players have been confirmed that they are left handed for one handed actions through data collated via the internet, which sometimes cannot be absolutely trusted as a source of facts.

Information can sometimes be misinterpreted by people, just because a right handed golfer may say that they lead with their left side, doesn't necessarily make them left handed in general life.

If I have claimed that a player in this list is, or was left handed for single sided actions, cross dominant or ambidextrous and anyone, especially if you are that player, has evidence that they either were or are not, please contact the Two Handed X-Factor website and let me know.

This group of Major Winners, in no particular order, includes:

- Bobby Jones
- Sam Snead
- Ben Hogan
- Jack Nicklaus
- Johnny Miller
- David Graham
- Curtis Strange
- Greg Norman
- Nick Faldo
- Trevor Immelman
- Tom Kite
- Jimmy Dermaret
- Nick Price
- Arnold Palmer
- Fuzzy Zoellar
- Tom Watson
- Byron Nelson
- Walter Hagen
- Arnaud Massey
- Raymond Floyd
- Vijay Singh
- John Goodman
- Michael Campbell

This group of players combine to contribute another 107 majors won by humans who perform one handed actions left-handed, cross dominant or ambidextrous and then the two handed actions of a golf swing right handed. This is in addition to the 6 Majors won by left handed golfers who perform one handed actions right handed.

This now makes a confirmed total of at least 113 Major Tournaments won by golfers who approach the sport in an opposite fashion to their one handed actions, representing 27.23% of the total number of Majors played. For all the other winners how many were or are left-handed; cross dominant or ambidextrous that still have to be established. I do have partial evidence of quite a few, but am unable to confirm the information absolutely.

There still are a large number of players, particularly from yester year, to possibly add to this group with pictures of some Champions all holding the relevant trophy that they have just won in their left hand. If I had just won a Major and didn't want to drop that Trophy in front of everybody watching, I am sure I would hold it in my dominant hand.

There are also endless pictures and what seem to be trivial observations, of many Major Championship winners performing basic tasks left sided. To name but a few; Old Tom Morris can be seen in a photograph holding his pipe in his left hand; Harry Vardon can be seen crossing his left leg over his right on the front page of his book and Young Tom Morris can be seen holding his coat back with his left arm to show the British Open Belt Buckle. Winners of the British Open were presented with a belt buckle up until 1872 when that trophy was replaced by the now famous Claret Jug.

Hale Irwin was said to have spent countless hours as a child cutting grass with a scythe around his parent's property with his left arm leading the action. Ed Furgol smashed his left arm at the age of 12 and spent tireless hour's exercising his now shorter left arm to strengthen it. Gene Sarazen was said to have an abnormally strong left hand and Billy Burke lost his left hands little finger in a foundry accident.

Despite much of this anecdotal evidence I will concede that all Major Winners unconfirmed were right handed golfers playing right handed and base my statistics on the numbers confirmed.

To that end however, if anyone reading this paper has proof that any Male Major Winner not listed above was left handed for one handed actions, please contact the Two Handed X-Factor website. Be it you are the player, a relative of the player's involved, observant student of the game and life, or just well read, please log onto the website and let me know.

Even with many male golfers unconfirmed, at the established level of 5% of humans swapping over for two handed actions, this should mean statistically that 21 Majors played by males should have been won by this group. Already 113 are confirmed to be having been won by players who play reverse to their one handed tendencies or who are either cross dominant or ambidextrous people. Statistically this obviously points strongly to this specific group of humans having a distinct advantage to approaching the golf swing in the fashion that they do.

The only downside of this approach to golf, which I have observed, is in the ability of this group to be able to release the club back to square at impact. At times, and sometimes famously under pressure, the stronger and quicker leading side will get ahead of the action causing a blocked shot. Some of Greg Normans' blocked shots on the final hole of Majors are infamous in golf's recent history as are some of Phil Mickelson's shots. Apologies Greg and Phil, I am sure that these are shots that you don't wish to be reminded of.

Men's Major Championship winners aside, how many players who have reached a Professional level on all the tours of the world or played golf at an elite amateur level have approached the game this way? Many Tour players that I have observed are either left-handed, cross dominant or possibly ambidextrous.

Even though left handed golfer Bubba Watson writes with his left hand, in his playoff against Martin Kyrer in the 2010 US PGA he was looking through his golf bag for a suitable ball to compete in the playoff with his right hand.

Many Tour players sign their autographs opposite to the way they play including, Henrik Stenson; Len Mattice and Edorado Molinari, who all play right handed and sign left handed. Richard Green, Nick O'Hern, Greg Chalmers and Steve Flesch all play left handed and sign right handed. Sergio Garcia throws golf balls to his caddy and the crowd left handed which once famously prompted British Professional Mark James to say *"he must be amphibious"*. Legendary Canadian player and revered ball striker Moe Norman who played the US Tour briefly was left-handed.

With just these basic statistics and observations, the numbers strongly point to these male golfers as having an advantage over their *"one sided"* opponents. With the inbuilt benefit of strength and reaction time, that is required to perform a golf swing under the immense pressure of a Major Tournament, they have the Hidden X Factor required to prevail.

As already stated, of the 415 Men's Majors played to the end of 2010, statistically at 5% of the total only 21 should have been won by male golfers approaching golf opposite to their one sided tendencies. With many more winners of these Championships to be possibly confirmed as left-handed, cross dominant or ambidextrous people why have so many, currently 113, been shown to be won by this group of players?

LADIES GOLF MAJORS AND SOME OBSERVATIONS

Major Golf Championships played by female golfers don't date back quite as far as Men's Majors with the US Open, the LPGA Championship, the British Open and the Kraft Nabisco making up the four Ladies Majors. Up until the end of 2010 there have been 182 Majors played since the first US Open in 1946, the first LPGA Championship in 1955, the first British Open in 1976 and the inaugural Kraft Nabisco in 1983.

There were two years in which the 1969 LPGA Championship and the 1983 British Open tournaments were not played. Some of these Tournaments were played before the dates stated, however are not classed as official Major Championships.

Of the 182 Majors played not one has been won by a female left-handed golfer. In fact, in general tournaments, only one left handed female golfer has won on the American LPGA Tour in Bonny Bryant, recording a victory in the 1974 Bill Branch Classic. In fact in the history of the US LPGA there has only been four players to play left-handed, including Bonny, the others being Angela Buzminski who played from 2002 to 2005; Kelly Lagedrodt from 2004 to the present and Malinda Johnson in 2005.

As with Men's golf I haven't had the time or the research capabilities to establish all of the 182 winner's preferences to one handed movements in their general life. I have confirmed however, through biographies, articles, common knowledge and observation, that at least 11 Women's Majors were won by right handed golfers who performed one sided actions left handed or at the very least were cross dominant or possibly ambidextrous. This information is outlined in Golf Data and Figures.

Again as with Men's Majors a large number of these players have been confirmed as to whether they are left handed through information via the internet, which sometimes cannot be absolutely trusted as a source of facts. Information can sometimes be misinterpreted by people, just because a right handed golfer may say that they lead with their left side, doesn't necessarily make them left handed in general life.

If I have claimed that a player in this list is or was left handed for single sided actions and anyone, especially if you are that player, has evidence that they either were or are not, please contact the Two Handed X-Factor website and let me know.

This group of players, in no particular order, includes;

- Kristie Kerr
- Pat Hurst
- Hollis Stacy
- Sally Little
- Ayako Okamoto
- Beth Daniel
- JoAnne Carner

This group of golfers, who approach the sport in an opposite fashion to their one handed actions, represented a total of 6.04% of the total number of Women's Majors played. For all the other winners how many were left-handed, cross dominant or ambidextrous that I cannot establish positively? As with many male players I do have partial evidence of quite a few but am unable to confirm the information absolutely.

Whilst there are many players unconfirmed the 11 Championships that have been won by players who are left side dominant is not statistically that far outside the 9 that should have been won by this group. Analysis of golfers in both the female and male groups has been difficult in order to establish players one sided preferences as the sport gives little clue to which side dominates single sided actions.

Again to that end, if anyone reading this paper has proof that any Ladies Major Winner not listed above was, or is, left handed for one handed actions please contact the Two Handed X-Factor website. Be you the player themselves, a relative of the players involved, observant student of the game and life, or just well read please log onto the website and let me know.

CRICKET PLAYED BY MALES

Cricket is relatively easy to establish which players have a single dominant side and then as to how they approach the two handed functions of their game. When not coaching or working in the golf industry, one of my next favourite pastimes is to watch cricket, sometimes while having the odd beverage as a large section of Australians do.

Cricketers when fielding will throw the ball back to the centre with one hand, in general of course their dominant arm. When batting and placing two hands on the bat or "*willow*" however, how many players bat on the opposite side as to which they threw?

Of the top 30 Test Batsmen of all time, as at November 2010, there were 5 players who batted left and threw right representing 16.67% of the total. One player was totally left handed representing just 3.33% of the total, well under the statistical benchmark for humanity. 80% of the top 30 Test Batsmen of all time both batted and threw right handed. This information is outlined in Cricket Data and Figures.

Of the top 20 One Day Batsmen of all time, as at November 2010, there were 3 players who batted opposite to their one handed tendencies representing 15% of the total. Two batted left and threw right with 1 player batting right and throwing left. One player was totally left handed representing just 5% of the total; again well under the statistical benchmark for humanity. 80% of the top 20 One Day Batsmen both batted and threw right handed. This information is outlined in Cricket Data and Figures.

Of the 9 countries that play test and one day cricket each country, as at November 2010, had a squad of players ranging in numbers from 23 to 32 to draw from to construct their side for an upcoming tour and or match. Each countries squad's had a total player base at this time totalling 252 players. This figure was derived from the International Cricket Council (ICC) listings of national squads, however there were some discrepancies from the ICC listings and other sources.

Of the 252 players in all these squad's 58 players in total threw or bowled with one side of their body and then batted the other way around. This represented 23.02% of the 252 players and was far more than the 13 players which should have represented this group at the established rate of 5% of humans who should approach batting reverse to the one handed tendencies.

Players who threw and bowled left handed and batted left handed totalled 36 and represented 14.29% of the group, which is right on the base line average for the total left handed population of the planet.

The numbers of players and subsequent squad statistics for each individual country at November 2010, as outlined in Cricket Data and Figures, is as follows. Some of the varying rates from one country to another could possibly be a reflection of coaching techniques and or cultural and religious practices.

Australia – 32 players in their national squad with 11 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 34.38% of the total, which statistically should have been a representation of about 2 players. There were 5 wholly left handed players representing 15.62%, which is just over the established rate of left handed people. Right on 50% of the squad were right handed for one sided actions and then batting.

England - 23 players in their national squad with 5 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 21.74% of the total which statistically should have been a representation of about 1 player. There were 4 wholly left handed players representing 17.39%, a percentage just over the established rate of left handed people. 60.87% of the squad were right handed for one sided actions and then batting.

New Zealand - 30 players in their national squad with 4 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 13.33% of the total which statistically should have been a representation of about 2 players. There were 3 wholly left handed players representing 10%, under the established rate of left handed people. 76.67% of the squad were right handed for one sided actions and then batting.

India - 31 players in their national squad with 5 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 16.13% of the total which statistically should have been a representation of about 2 players. There were 4 wholly left handed players representing 12.90% which is just under the established rate of left handed people. 70.97% of the squad were right handed for one sided actions and then batting.

Pakistan - 32 players in their national squad with 6 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 18.75% of the total which statistically should have been a representation of about 2 players. There were 5 wholly left handed players representing 15.62%, just over the established rate of left handed people. 65.63% of the squad were right handed for one sided actions and then batting.

Sri Lanka - 29 players in their national squad with 6 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 20.69% of the total which statistically should have been a representation of about 1 player. There were 4 wholly left handed players representing 13.79%, virtually the same as the rate of left handed people. 65.52% of the squad were right handed for one sided actions and then batting.

West Indies - 28 players in their national squad with 7 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 25% of the total

which statistically should have been a representation of about 1 player. There were 3 wholly left handed players representing 10.71%, under the established rate of left handed people. 64.29% of the squad were right handed for one sided actions and then batting.

Bangladesh - 23 players in their national squad with 4 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 17.39% of the total which statistically should have been a representation of about 1 player. There were 5 wholly left handed players representing 21.74%, well over the established rate of left handed people. 60.87% of the squad were right handed for one sided actions and then batting.

South Africa - 24 players in their national squad with 10 of the total approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 41.67% of the total which statistically should have been a representation of about 1 player. There were 3 wholly left handed players representing 12.50%, which is just under the established rate of left handed people. 45.83% of the side were right handed for one sided actions and then batting.

Whilst there was no analysis of a player's specialty in the game between batting and bowling the summary of statistics for elite male cricketers who bat on the same side as they throw was as follows;

- The two groups of all time leading batsmen in the Test and One Day areas were above the 5% of humans who should approach the sport in this fashion at 16.67% and 15% respectively.
- The total number averaged for the 9 countries cricket squad's was 23.02%, however in individual countries cases this ranged from 13.33% for New Zealand to 41.67 % for South Africa's squad.

With just these basic statistics the numbers point to these male cricketers having an advantage over their "one sided" opponents. With the inbuilt benefit of strength and reaction time on their leading side that is required to hit a cricket ball travelling at up to 160kms per hour they have the Hidden X Factor required to bat in cricket at this elite level.

CRICKET PLAYED BY FEMALES

Women's cricket doesn't have, as does women's golf, quite the same history and base of statistical information as does the men's game.

Of the 5 countries that play test and one day cricket each country had a squad, as at February 2011, of players ranging in numbers from 14 to 18 to draw from to construct their side for an upcoming tour and or match. Each countries squad's had a total player base totalling 81 players. This figure was derived from many different sources and discrepancies from the ICC listings did vary.

Of the 81 players in these squad's, 11 players in total threw or bowled with one side of their body and then batted the other way around, this represented 13.58% of the 81 players and was more than the 5 players that should have represented this group, at the established rate of 5% of humans who should approach batting reverse to the one handed tendencies. Only 4 players of the total were left handed for both batting and bowling which represented 4.94%, well under the expected 14% average.

The numbers of players and subsequent squad statistics for each individual country, as at February 2011, is as follows and is outlined in Cricket Data and Figures. Some of the varying rates from one country to another could possibly be a reflection of coaching techniques and or cultural and religious practices.

Australia - 18 players in their national squad with no player approaching bowling or throwing with one side of their body and then batting in the opposite fashion. There were 2 wholly left handed players representing 11.11%, which is just under the established rate of left handed people. 83.34% of the side were right handed for one sided actions and then batting with 5.55% unconfirmed as to their bowling or throwing arm.

England - 17 players in their national squad with 1 player approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 5.88% of the total which statistically is in line with the 5% of humans who should approach the action in this fashion. There was 1 wholly left handed player representing 5.88%, well under the established rate of left handed people. 82.36% of the side were right handed for one sided actions and then batting with 5.88% unconfirmed as to their bowling or throwing arm.

India - 15 players in their national squad with 1 player approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 6.67% of the total, which statistically is almost in line with the 5% of humans who should approach the action in this fashion. There were no left handed players obviously well under the established rate of left handed people. 73.33% of the side were right handed for one sided actions and then batting with 20% unconfirmed as to their bowling or throwing arm.

New Zealand - 17 players in their national squad with 6 players approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 35.29% of the total which, statistically should have been a representation of about 1 player. There were no left handed players obviously well under the established rate of left handed people. 41.18% of the side were right handed for one sided actions and then batting with 23.53% unconfirmed as to their bowling or throwing arm.

South Africa - 14 players in their national squad with 3 players approaching bowling or throwing with one side of their body and then batting in the opposite fashion. This represented 21.43% of the total which statistically should have been a representation of about 1 player. There was 1 wholly left handed player representing 7.14%, well under the established rate of left handed people. 57.14% of the side were right handed for one sided actions and then batting with 14.29% unconfirmed as to their bowling or throwing arm.

Whilst there was no analysis of a player's specialty in the game between batting and bowling the summary of statistics for elite female cricketers who bat with the same arm as they throw was as follows.

- The total number averaged for the 5 countries cricket squad's was 13.58%, however in individual countries cases this ranged from 0% for Australia to 35.29 % for New Zealand's squad.
- Whilst higher than the expected 5% of humans who should approach batting in this fashion the rate for Females was lower than the Men's statistical total.

With just these basic statistics, the numbers point to these female cricketers having an advantage over their "*one sided*" opponents. With the inbuilt benefit of strength and reaction time on their leading side that is required to hit a cricket ball travelling at up to 140kms per hour they have the Hidden X Factor required to bat at this elite level.

BASEBALL PLAYED BY MALES

As is cricket, baseball is "*relatively easy*" to determine which players swap from their dominant arm to throw or pitch as to which players bat the other way around. With reliable statistics dating back to 1882 from Professional Baseball played by males in the USA, it is easy to see the anomalies in relation to how the majority of the population would approach the actions required to play the sport.

The "*relative*" in the first statement is a little unknown as with baseball a player catches the ball with one hand and throws with the other. Do all players catch with their weaker side and throw with their dominant side or do some players catch with their stronger and reflex side and throw with the other? I would imagine that the position a player fields helps to determine as to whether they need quick reflexes in close to the batting diamond or a more powerful throw from the outfield. As baseball is not played at the same elite level in Australia, as it is particularly in the United States, I do not have the same years of acquired knowledge as to cricket.

There are also some aspects of the game that give a right or left handed approach an advantage. Left-handed batters seem to have an advantage to right handed pitchers as the ball in general will swing in to

the batter rather than away and obviously right handed batters have an advantage to left handed pitchers. With these considerations in mind the following statistics provide some interesting conclusions.

There are 41 US based Professional baseball players of all time to achieve a batting average of .325 or better, as at November 2010. Of this approximately 2 players statistically should approach their batting in the opposite fashion to their one handed movements given the 5% of humans who approach two handed actions this way. Of the 41 players, 10 batted left handed and threw right handed, making this group 24.39% of the total. No players batted right handed and threw left handed. This group included Ty Cobb as the all time leader with an average of .3664 and Joe Jackson at third with an average of .3558. This information is outlined in Baseball Data and Figures.

It was also interesting to note that there were another 15 wholly left handed batters and throwers in the group of 41 representing 36.59%. Statistically this group should have been around 6, in terms of the 14% of left hander's who populate the world.

With this group of 15 lefties, and the 10 who batted left and threw right this made a total of 25 left handed batsmen from the top 41 of all time representing 60.98%. Obviously there were only 16 players who batted and threw right handed representing 39.02%. I would assume this statistic leads to the fact previously stated, that right handed pitchers throwing to left handed batsmen with the ball curling in rather than away, give these left handed batsman a distinct advantage in making consistent contact with the ball.

The leading home run hitters of all time also provide some more compelling statistics. Of the top 200 home run hitters, as at November 2010, 47 either batted from both sides or threw with one side but batted on the other. Of this group 33 batted left and threw right with only 1 player batting right and throwing left. 13 players batted both left and right, being either cross dominant or ambidextrous, making this group 6.5% of the total and above the 3% of people who should approach the action in this fashion. Of this group of 13 cross dominant or ambidextrous players, only 1 threw left handed and batted right handed. This group as a total of 47 should have been a representation of about 10 players given the world's total populations statistical benchmark of 5%. This made this group almost 23.50% of the total number of 200 players. This information is outlined in Baseball Data and Figures.

Wholly left handed players contributed 32 of the 200 leading home run hitters coming in at 16%, although this almost falls into line with the 14% of left hander's in the world. The total of left handed players and right hander's who batted left handed as a group again made a huge percentage of the total, with 77 of the 200 equalling 38.50%. 60.50% of the top 200 home run hitters of all time batted and threw right handed. There was one player representing 0.5% who batted right handed and threw left handed and 1 player representing 0.5% who batted both right and left-handed and threw left-handed.

Of this group of 200 players who have hit the most home runs it was also interesting to note that most were over 6 feet or 183 centimetres in height. There were only 27 batsmen of the 200 who were less than 6 feet tall, with 19 of them being close to the mark at 5'10" or 5' 11". This raises another subject, for a later date, as to the advantage of leverage created by limb length in the deliverance of power in all the sports covered in this paper.

Of the top 200 the stand outs in this group that was less than 6 feet tall were Mel Ott at 23rd with 511 home runs; Yogi Berra at 74th with 358 home runs and Matt Stairs at 176th with 265 home runs. Yogi Berra in fact stood at only 5' 7" or 170 centimetres tall. The advantage that enabled these three players to achieve this amazing feat given their lack of leverage, they all threw right handed and batted left-handed.

Given baseballs actions of catching and throwing, are there more male players from the groups analysed who may have been dominant with a particular side but caught with it instead of threw? The findings as they stand, again prove an advantage to approaching this two handed action of batting in this fashion. These findings would only be enhanced through further analysis of these players as to how they throw as to which side of their body is actually dominant.

BASEBALL PLAYED BY FEMALES

Women's baseball doesn't have, as does women's golf, quite the same history and base of statistical information as does the men's game. In keeping with the theme of this paper and analysing the professional pursuits of each sport I have drawn the following statistics from the All American Girls Baseball League, as outlined in Baseball Data and Figures.

This League was played between 1943 and 1954 and was created in response to the lack of male baseball due to the Second World War. Phillip K Wrigley, the chewing gum mogul created the competition in the autumn of 1942. Over the 12 years of the competition and a fair amount of controversy, 626 players competed for 16 different teams that played over this time until the League was disbanded. The League, and the feats of these pioneering ladies, was documented in the 1992 movie *A League of Their Own*.

Of the 626 players listed on the All American Girls Baseball League website, 206 of these players did not have complete statistics as to how they batted or threw. Of the 420 players that did however, 36 threw either right or left handed and then batted reverse, with 9 of this group batting from both sides. One player, Gene Visich, batted left handed and threw from both sides. This group of 36 represented 8.81% of the total number and whilst higher than the 5% expected for this group was not an overwhelming statistic. Only 23 of the 420 players threw and batted left-handed, representing 5.48%, well under the expected 14% average. 85.71% of these female players batted and threw right handed.

The findings didn't prove an overwhelming advantage to approaching this two handed action of batting in a reverse fashion for female participants. Across baseball and cricket, whilst the groups sampled varied in size, there was a disproportionate statistical result between these elite players in female and male competition. Golf still has too many Female Major Winners unconfirmed to draw this conclusion for its results, but does have a very low level of left-handed participants.

HOCKEY – FIELD AND ICE

Hockey, in both its forms of Field and Ice, again provides a great study of two handed actions and the application to these sports. Whilst I don't have hard statistics on either sport to prove an advantage of players approaching these actions opposite to their one handed movements, there are some observations which support the findings from the other sports covered. These sports, and particularly field hockey, do have some rules that can inhibit a players natural ability from approaching actions a certain way.

Field hockey sticks can only be used right handed for shots requiring power. The sticks are rounded on the back side and whilst this side can be used for dribbling, can't be used to strike the ball. This obviously stops left handed people from being able to play the sport unless, with two hands they prefer to strike the ball right handed. Right handed people can of course play but would some of them be able to strike the ball more powerfully left handed? To that end how many top field hockey players are left handed with one handed actions? I would envisage that this figure would be inordinately more than the 5% that it should be in line with the total population.

When playing ice hockey sticks can be used either right or left handed for all shots requiring power and control. In the absence of detailed statistics and just observations Wayne Gretzky, or as he is known in Ice Hockey as "*The Great One*", sets the standard.

Wayne's records still stand to this day with the most goals in a season, and career, as well as the most assists in allowing other players to score. Although right handed, Wayne played ice hockey left handed in scoring the majority of his goals when absolute power was required. As a junior he was a talented baseball and box lacrosse player, box lacrosse is the indoor version of lacrosse. Without being able to observe Wayne playing these sports I would assume that he approached the two handed functions of both left handed.

Wayne also plays golf to a reasonable level having even competed in the US PGA Tours Skill Challenge Tournament, however he plays golf right handed after approaching the other two handed pursuits of his life left handed. If you ever read this paper Wayne, don't take offense, but you would have made a far better left handed golfer given the skills and strengths you would have brought to that approach.

If any Field or Ice Hockey players, coaches or spectators have observations or thoughts on the findings in this paper please contact the Two Handed X-Factor website and give me your feedback and please fill out the survey attached to the site. Without statistics to back my observations and having not played these sports at any level, the application of the theories outlined crossing over from golf; cricket and baseball could seem different to acceptable methods of coaching or play.

LACROSSE AND HURLING

Other sports where the dominant side leading the action would be an advantage are Lacrosse and Hurling. I have no statistics on either sport, however from watching both sports being played it can easily be seen that in the main cross dominant or ambidextrous skills and dominant sided actions are desirable to play both sports at a high level.

In Lacrosse a player's ability to pass, catch and propel the ball all whilst being checked by opponents would be enhanced by strength and quick reflex actions on both sides of the body. The action of passing or throwing in the main, sees the hands separated on the crosse, or crook, with power being generated with the pulling down of the lower hand and the pushing forward of the top hand. This combined with the leverage created by the racquet sees the ball being able to be propelled at high speed. Because the hands are not placed as closely together as in the other sports covered the action is not necessarily dependent on a stronger leading side movement. Strength in both sides of the body would be a definite advantage in this sport.

It would be interesting to see how many Lacrosse players are either cross dominant, ambidextrous or are right handed propelling the ball on their left side or left-handed propelling the ball on their right side as their more powerful action. The proportions of these players from male to female would also provide an interesting insight into the brains functions. Again, given the findings in this paper for other two handed pursuits I would be sure that this approach would be beneficial.

Hurling again provides a great study of the action of the right and left sides of the body. As the hands are fairly close together on the hurley, or caman, the action of hitting the ball and having the stronger and quicker reflex side of the body lead is an advantage. Players can only take three steps with the ball, or sliotar, in hand and must balance the ball on the caman whilst running and avoid being checked by their opponent's. As with Lacrosse, again cross dominant or ambidextrous skills would be of great benefit in this sport.

In striking the sliotar, it can be struck from the right or left side in the air or from the ground. In observations of the game players under pressure from an opponent use either side of their body to affect a strike. When wanting to propel the ball with as much power as possible though, and with time for a

player to set themselves, many hurling shots are struck against the right side similar to a two handed back hand in tennis leading to the fact that these players are right handed.

In observations of the game being played on many occasions, players will catch or slap the ball with their right hand as allowed by the rules and then hit against their right side to strike the sliotar to a position on the field or for goal. Goal keepers will regularly strike the ball out from goal to the other end of the ground against their right side and many of the top hurling goals ever scored have been by players also hitting against their right. As with Lacrosse, it would be interesting to see how many Hurling players are either cross dominant, ambidextrous or are right handed propelling the ball against their right side or left handed propelling the ball against their left side as their more powerful action. Yet again, given the findings of this paper for other two handed pursuits and my observations of hurling, hitting against the right side for right handed players and against the left for left-handed players would provide the most powerful strike.

If any Lacrosse or Hurling players, coaches or spectators have observations or thoughts on the findings please contact the Two Handed X-Factor website and give me your feedback and please fill out the survey attached to the site. Without statistics to back my observations and having not played these sports at any level, the application of the theories outlined crossing over from golf; cricket and baseball could seem different to acceptable methods of coaching or play.

CHAPTER 4

How does it all work?

All the information and statistics previously stated lead to this point and as to how male and female humans tie together all these seemingly separate skills into the appropriate actions required to play the sports covered. Why do these people who are dominant in one side of their body, and then play these two handed sports in reverse to that dominance, have an advantage?

The answer to this question is a combination of strength, reflexes, training and everyday actions coupled with an ability to transfer this information to the parts of the body needed to perform the given action of the two handed movement required.

Obviously not all players approach two handed actions opposite to their one handed tendencies and there are a huge percentage of humans that are very proficient at their chosen sport approaching it in this fashion. Do these players have an advantage because of the way that they have trained for that sport?

Following are also genetic observations of players across sports that contribute to the findings on the intricacies of the brain, and provide discussion points on training and approaches to two handed sports from an early age in life.

How this works for humans in general and then humans who approach these actions with their dominant side leading is outlined in the sub headings that follow.

THE DOMINANT SIDE

For 97% of humans, barring the 1% of ambidextrous people and to a lesser extend the 2% of cross dominant people, one side of their body will naturally be stronger than the other. This side will develop over the course of a person's life to the side of the body that will lead actions requiring power and control. This strength can be trained to be equal but if left to develop without training will favour the side that humans perform one sided tasks.

This build up can become a problem in humans as too much strength and subsequent muscle build up on one side of the body will start to pull the skeleton out of alignment. To that end, even marginally, humans will tend to have one side of the body that is bigger than the other as it will have a larger muscle mass.

This dominant strength combined with reflex actions on just one side of the body infiltrates into all actions that a human will perform across the course of their life. From performing all basic tasks

requiring strength or control to the most complex of actions one side will naturally lead the action required.

If a human is to pick up a heavy suitcase, which side will a person gravitate towards to achieve the result? Which hand do you brush your teeth with? Which pocket do you keep your wallet or keys in? Which hand would you use to stop an object from hitting your face? Which leg would you raise to stop a dog from attacking you? What shoulder do you carry a bag on? I can go on all day as to analysing the way a human carries on the basic actions of life, however analyse yourself.

If I've got you thinking and a little perplexed that's great. Look at how you perform tasks and embrace your natural way. Please fill out the survey attached to the Two Handed X-Factor website to help gain more statistics on how humans approach life and the complex actions that it encompasses. If you are a sportsperson in the disciplines covered, someone who may just swing an axe opposite to your one handed actions or an everyday right or left hander please help me to gain some more facts on how humans approach all these tasks.

The application of this approach to life as to the sports covered is as follows. If a human uses one side of their body predominately, that side will naturally become their stronger side and their reflex side.

If they then approach any of the two handed sports outlined with that side leading they have a distinct advantage in these sports as they are applying that strength to the action as the stronger side is leading the movement. Combined with this "mechanical" strength their brain can also transfer the information required to perform the action to that side's muscles in a quicker time frame.

VERY BASIC PHYSICS

In tying into the previous section, "The Dominant Side", is the use of some very basic principles of physics applied to the movements required for the sports covered. In human endeavours physics is a pure science in that its laws and their application can predict results before they happen. In physics, Newton's third law states the following:

"Whenever a Particle A exerts a force on another Particle B, B simultaneously exerts a force on A with the same magnitude in the opposite direction. The strong form of the law further postulates that these two forces act along the same line."

This law is often simplified into the sentence, "Every action has an equal and opposite reaction."

To propel an object from a static position, as humans do in golf, as well as some hockey shots and some lacrosse and hurling shots, a force must be firstly generated. A brace is formed for it to act against and then that force is delivered to the object thus propelling it in the direction of that force.

To propel an object in motion and use the kinetic energy of that object back on itself, as humans do in cricket; baseball and sometimes in hockey; lacrosse and hurling, some force may firstly be generated. A brace formed for it to act against and then a combination of the force generated and the kinetic energy of the object can be delivered to that object thus propelling it back in the direction of that force.

These basic principles lead to the pivotal movements made by humans in playing the two handed sports outlined. Increased strength of the leading side of two handed actions will enable a person to deliver and control the maximum amount of power they are able to summon to the object involved. This obviously, in combination with the brain being able to co-ordinate the movement at the correct time needed, or the X Factor, gives people who approach these sports in this fashion an edge that allows them to excel.

THE X FACTOR

The X Factor has become in recent times a much commonly used term to describe why one human has an advantage over either another, or all others. Whilst not being a scientific term, or even listed in dictionaries, the X Factor has become a widely used slang term to describe any undefinable skill or presence that a human possesses.

Sports, the arts, business, physical appearance or even basic survival why will one human prevail in any pursuit? Other than physical appearance, if the brain can compute, decipher and act on information that it is presented with better and faster than another human that is the X Factor at work.

As applied to sports and given the milliseconds required to act and apply force to a golf; cricket; baseball, hockey, lacrosse or hurling stroke, why are some people able to perform the action more succinctly, with more power and regularity all under the pressure of the moment better than others?

As concluded by French Neuroscientist Guy Azemar, in a study on left handed sports, if the hemisphere of a human's brain that is processing and then leading the action required to play a sport is one and the same, then that player has a 20 to 30 millisecond advantage in reaction time.

If the one side of your body that you have been training all your life to perform one handed actions leads these two handed actions a person has not just strength in that side of their body, but what will also be a slightly quicker reaction time. The brain is able to fire the electric impulse required at a faster speed enabling that sides stronger muscles to react in a quicker and more efficient time frame, thus the X Factor at work.

GENETIC OBSERVATIONS AND ANOMALIES

A persons genetic makeup, that is the way their brain is "*wired*", is the main determining factor governing which way they will approach the two handed pursuits covered. However do outside

influences, mirroring another players actions, training or a want to gain an advantage play a part in a participants decision to approach a two handed action?

I have taught golf to generations of families who will have a parent, son or daughter and then grandson or grand daughter who all will approach golf in the same manner, swapping from one handed actions one way to two handed actions the other. I have also had instances of families who had one generation be right handed and play two handed sports left-handed, the next generation be left handed and play two handed sports right handed and then to have the next generation revert back to their grandparents approach.

Even in siblings you will see anomalies such as Australian Wicket Keeper Batsman, Rod Marsh and his Professional Golfer brother Graham. This is a great example as it outlines skills across two different sports, however with the same basis of movements and reactions needed to play them at an elite level.

Rod Marsh batted left handed and threw right handed while Graham signed his autographs left handed and played golf right handed. Both brothers achieved great success in their chosen sports, although Rod was christened "*Iron Gloves*" early in his career. Perhaps Rod, in the millisecond it took to react to the ball travelling at him at up to 160kms per hour, was unsure which hand to lead with. Rod, if you read this paper, apologies for pointing out flaws in your early technique behind the stumps.

Other sibling examples include Michael and David Hussey, who both represent Australia in Cricket, in both the shortened versions of the game and Test arenas. Michael, known as "*Mr. Cricket*", bowls and throws right handed and bats left handed. David bowls throws and bats right handed. As brothers, why are their brains wired up in two different ways? Or was it their approach to the game and their sibling's strengths in hours of backyard cricket as children that shaped the way they play?

Another contemporary Australian cricketer who provides an interesting anomaly is two time Alan Border Medallist, Shane Watson. Shane is an all rounder, both bowling and batting in the game at an elite level. He throws and bats right handed but then signs his autographs left handed. Is Shane just cross dominant or ambidextrous or was he trained to bowl right handed and to that end; would he have possibly made a better left handed bowler?

A genetic example of different approaches is provided by the golfing brothers of Eduardo and Francesco Molinari. Both play golf right handed and have achieved success on the European Tour and together won the 2009 Golf World Cup for Italy. Francesco plays right handed and signs his autographs the same way, however Eduardo plays right handed and signs his autographs left handed. Two brothers with different approaches to the general actions of life and then to their chosen sport, still competing at an elite level. Did Eduardo simply play right handed because that is what his brother did or was it because he got Francesco's handed down clubs to use?

These observations and anomalies are just a few examples of top athletes. Some whilst genetically linked apply strength, reaction time and skills to two handed pursuits in different ways while others show signs of cross dominance. There are almost endless links to skills and strengths in humans and how the application of these abilities allows them to prosper even across generations.

BUT THEY'RE STILL GOOD

Not all elite athletes in the sports covered approach two handed actions with their dominant side leading; there are sub groups of players who have an easier time of making the required action of their given sport. Having relatively equal strength in both sides of the body will make it easier to make a more balanced action, without one side of the body wanting to dominate in the strength and reflex actions required.

These attributes can be trained into a person from an early age or given continual training through life can enable the person to make the given task easier. People who do weights, row boats, surf, swim or perform any other task that requires and trains equal strength in both the right and left sides have an advantage to making two handed actions. Training the leading side of these actions for the sports outlined will obviously help the player to perform the action in quicker time and through muscle development more powerfully.

Australian Cricketer Don Bradman, statistically the best Test Cricket batsmen of all time, trained for hours as a child using a stump to hit a golf ball against a brick tank stand to hone his actions.

Don Bradman wrote in the 1930 Sydney Morning Herald, *“Armed with a small stump, which I used as a bat, and throwing a golf ball at the brick part of an old tank a few yards away, I would try to hit the ball on the rebound. I was never satisfied unless I could hit it; say three times out of four. The small bat made this no easy matter; as the ball came back at great speed and, of course, at widely different angles. I found I had to be pretty quick on my feet and keep my wits about me, and in this way I developed, unconsciously perhaps, a sense of distance and pace”*

Don said it all in this extract from this article. *“I developed, unconsciously, perhaps, a sense of distance and pace.”* Whilst Don was right handed, those countless hours of training having his left side lead to hit the golf ball back against the tank stand with the cricket stump, trained his brain to have faster reaction times and also developed increased strength in his left side.

Golfer, Tiger Woods, was trained from a very early age and even appeared on the Bob Hope Show in the United States at the age of 2 hitting golf balls. Even though Tiger is right handed his early training, plus ongoing specific golf training and weights, have helped him to maintain his action with equal strength and a movement to his left side.

With this however, years of that action have famously put a strain on his left knee. Tiger won the 2008 US Open literally on one leg, beating Rocco Mediate in a playoff. Tiger quotes that, “*at the top of my swing I feel loaded*”, which is that initial brace onto his left side before he unwinds through and delivers the force generated by the rotation of his torso. With this explosion of power and years of golf training, including the wear and tear of life in general, Tiger's left knee required corrective surgery.

American female sporting legend, Babe Zaharias Didrikson is a great example of sporting prowess across a range of disciplines. Babe was naturally right sided and played all her different sports that same way. Babe won a gold medal in the 1932 Los Angeles Olympics for javelin as well as gold in the 80 metre hurdles and silver in the high jump in addition to her All American Status in Basketball. However the cross training of leading against her left side as an Olympic javelin thrower led her to become a Hall of Fame golfer with 48 Professional wins including 10 Majors all in just 9 years. With similar muscle groups and the sequence of the actions required to perform at an elite level in both sports, Babe used her learnt skills and strengths from javelin throwing as she crossed over and embraced golf.

Golfer Seve Ballesteros was, I am sure right handed, however trained from a young age at the sport as many great golfers did. He also came from a family who were champion rowers. Obviously rowing requires equal strength in the right and left sides of the body to propel a water craft in the direction you want. If one side of the body is stronger than the other rowers will virtually go around in circles. This training in combination with his golf training enabled Seve to compete at the superior level that he did.

These are just a few examples of top athletes applying strength, reaction time and skills to two handed pursuits with great success, even though not leading with their naturally stronger side. There are many more humans whose cross training, whilst not providing them with a more natural advantage, have allowed them to excel at their chosen sport.

The human brain, and subsequently the muscles and commands needed to play these two handed sports, can allow all humans to compete at an elite level. Humans, who have the inbuilt advantage of having their naturally stronger side lead however, will be able to excel at these sports with less time honing their skills and less maintenance of these skills once learnt.

FEMALE TO MALE STATISTICS

As an accepted fact of Neuroscience, the female of the human species has a smaller brain than the male, however it is far better “*wired up*” than the males brain. This is said to be a function of the brain genetically built into females by having to perform many tasks simultaneously, particularly in nurturing children.

As an aside to the main topic of this paper it seems to hold true for the two handed sports outlined. Whilst there were female participants of golf, cricket and baseball who led with their stronger side it was not to the same level as their male counterparts. There was also statistically, a lower percentage of left handed females participating in the three main sports covered.

Is this further confirmation of the fact that female brains are wired up in a superior way to males? I know this to be true, because my beautiful wife Angela, reminds me every day of this fact. Neuroscience in all its fields could apply the statistics in this paper to help to determine the intricacies of the brain in general and then the differences from female to male.

CHAPTER 5

Basic Conclusions and Practical Applications

The statistics and observations provided conclude that there is a statistical anomaly between what should be the rate of humans who excel in the two handed sports outlined, opposite to their one sided tendencies, to the numbers that excel at an elite level.

The group of humans who play the sports covered opposite to their one handed tendencies make up only 5% of the world's population. This group however, furnishes a large percentage of the male competitors and champions and a higher than expected level of female competitors and champions of golf, cricket and baseball.

All the statistics and information provided is compelling, and really does prove that approaching two handed actions with your dominant side leading provides an advantage. Practically however, not many people around that 5% statistic wish to do this naturally.

This paper is not a recommendation that all humans, be they right or left handed, swap to the other side to perform the two handed actions for the sports outlined. An individual's brain and it's "*wiring*" will lead them to whatever action they are most comfortable with.

For people, be they players, parents, coaches, mentors or talent scouts, attempting to play, coach or analyse these two handed sports, this information is to assist you to advise or take the correct path.

- If a potential player of these sports is right or left handed for one handed actions but wants to participate the other way around let them, or just, do so.
- To the group of participants who wish to approach any of these sports in the same fashion that they approach one sided actions, strength and reflex training on their leading side will help them to excel.

Good luck with your chosen endeavour and I hope this information helps all people to achieve the success that they are capable of; most of all enjoy the journey.

GLOSSARY

All rounder – a player in a cricket team who is adept at both bowling and batting.

Ambidextrous – able to use both hands equally well.

Baseball – a game played with a wooden bat and a hard ball, by two opposing teams of nine players, each team batting and fielding alternatively, and each batter having to run a course of four bases laid out in a diamond pattern in order to score.

Batsman or batter – one who wields a bat or whose turn it is to bat in both cricket and baseball.

Bowler – a member of a cricket team who specialises in propelling the ball at a batsman and his wicket.

Cerebellum – a large expansion of the hindbrain, concerned with the coordination of voluntary movements, posture, and equilibration. In a man it lies at the back and below the cerebrum and consists of two lateral lobes and a central lobe.

Cerebrum – the anterior and upper part of the brain, consisting of two hemispheres, partially separated by a deep fissure but connected by a broad band of fibres, and concerned with voluntary and conscious processes.

Cortex – the layer of grey matter which invests the surface of the cerebral hemispheres and the cerebellum.

Cricket – an outdoor game played with ball, bats and wickets, by two sides of eleven players each with the aim being to score runs whilst not losing batsmen to dismissal.

Crosse or crook – the racquet used in the game of lacrosse.

Dribbling - refers to the manoeuvring of a ball around a defender through short skilful taps or kicks with either the legs or a stick or swimming strokes in water polo. The purpose of such an action is to bring the ball past a defender legally and to create opportunities to score.

Foundry – an establishment for the production of castings, in which molten metal is poured into moulds to shape the castings.

Golf – an outdoor game, in which a small resilient ball is driven with special clubs into a series of holes, distributed at various distances over a course having natural or artificial obstacles, the object being to get the ball into the hole in as few strokes as possible.

Hockey – a game in which opposing sides seek with sticks curved at one end to drive a ball, in field hockey, or puck, in ice hockey into their opponent's goal.

Hurling – an outdoor team sport of Gaelic origin, played by two opposing teams of 15 players with a hurley or caman and a ball called a sliotar, with the aim to score at the opponents goal.

Hurley or caman – a wooden stick with a flattened end used for the game of Hurling.

Kinetic energy – the energy which a body possesses by virtue of its motion.

Lacrosse – a ball game of American Indian origin played by two teams of ten players, who strive to send a ball through a goal by means of long handled racquets.

Mirror Neurons – a neuron that fires both when an animal acts and when the animal observes the action performed by another.

Parallax effect – the apparent displacement of an observed object due to a change or difference in position of the observer.

Predilection – predisposition or preference of the mind in favour of something.

Proprioception or Kinaesthetic sense – the sense of relative position of neighbouring parts of the body.

Quill – a feather, as of a goose, formed into a pen for writing.

Scythe – an agricultural implement consisting of a long curved blade fastened at an angle to a handle for mowing grass or wheat.

Tank stand – a structure of steel, stone, etc, supporting a water tank at a height sufficient to generate adequate water pressure in the pipes running from it.

Willow – the wood of a willow tree used to fashion a cricket bat and used colloquially to describe the same.

Wicketkeeper – the player of a cricket side who stands immediately behind the wicket to stop balls that pass it.

Wicket – either of the two frameworks, each consisting of three stumps with two bails in grooves across their tops, at which the bowler aims the ball.

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Championship	Number	X Over or Cross Dominant	Players Unconfirmed
British Open	139	28	108
US Open	110	27	80
US Masters	74	33	37
US PGA	92	25	63
Totals	415	113	288
% of players who X Over or Cross Dominant		27.23%	
% of players who are unconfirmed as right or left dominant			69.40%

Ladies Golf Overall Statistics

Championship	Number	X Over or Cross Dominant	Players Unconfirmed
LPGA Mc Donalds	55	3	49
Kraft Nabisco	28	1	24
British Women's	34	1	32
US Women's	65	6	53
Totals	182	11	158
% of players who X Over or Cross Dominant		6.04%	
% of players who are unconfirmed as right or left dominant			86.81%

British Open Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	1860	Willie Park Sr	Right	?	?
2	1861	Old Tom Morris	Right	?	?
3	1862	Old Tom Morris	Right	?	?
4	1863	Willie Park Sr	Right	?	?
5	1864	Old Tom Morris	Right	?	?
6	1865	Andrew Strath	Right	?	?
7	1866	Willie Park Sr	Right	?	?
8	1867	Old Tom Morris	Right	?	?
9	1868	Young Tom Morris	Right	?	?
10	1869	Young Tom Morris	Right	?	?
11	1870	Young Tom Morris	Right	?	?
	1871	Not Played			
12	1872	Young Tom Morris	Right	?	?
13	1873	Tom Kidd	Right	?	?
14	1874	Mungo Park	Right	?	?
15	1875	Willie Park Sr	Right	?	?
16	1876	Bob Martin	Right	?	?
17	1877	Jamie Anderson	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
18	1878	Jamie Anderson	Right	?	?
19	1879	Jamie Anderson	Right	?	?
20	1880	Bob Ferguson	Right	?	?
21	1881	Bob Ferguson	Right	?	?
22	1882	Bob Ferguson	Right	?	?
23	1883	Willie Fernie	Right	?	?
24	1884	Jack Simpson	Right	?	?
25	1885	Bob Martin	Right	?	?
26	1886	David Brown	Right	?	?
27	1887	Willie Park Jr	Right	?	?
28	1888	Jack Burns	Right	?	?
29	1889	Willie Park Jr	Right	?	?
30	1890	John Ball	Right	?	?
31	1891	Hugh Kirkaldy	Right	?	?
32	1892	Harold Hal Hilton	Right	?	?
33	1893	William Auchterlonie	Right	?	?
34	1894	J H Taylor	Right	?	?
35	1895	J H Taylor	Right	?	?
36	1896	Harry Vardon	Right	?	?
37	1897	Harold Hal Hilton	Right	?	?
38	1898	Harry Vardon	Right	?	?
39	1899	Harry Vardon	Right	?	?
40	1900	J H Taylor	Right	?	?
41	1901	James Braid	Right	?	?
42	1902	Sandy Herd	Right	?	?
43	1903	Harry Vardon	Right	?	?
44	1904	Jack White	Right	?	?
45	1905	James Braid	Right	?	?
46	1906	James Braid	Right	?	?
47	1907	Arnaud Massey	Right	Left	1
48	1908	James Braid	Right	?	?
49	1909	J H Taylor	Right	?	?
50	1910	James Braid	Right	?	?
51	1911	Harry Vardon	Right	?	?
52	1912	Ted Ray	Right	?	?
53	1913	J H Taylor	Right	?	?
54	1914	Harry Vardon	Right	?	?
	1915	Not Played			
	1916	Not Played			
	1917	Not Played			
	1918	Not Played			
	1919	Not Played			
55	1920	George Duncan	Right	?	?
56	1921	Jock Hutchinson	Right	?	?
57	1922	Walter Hagen	Right	Left	1
58	1923	Arthur Havers	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
59	1924	Walter Hagen	Right	Left	1
60	1925	Jim Barnes	Right	?	?
61	1926	Bobby Jones	Right	Left	1
62	1927	Bobby Jones	Right	Left	1
63	1928	Walter Hagen	Right	Left	1
64	1929	Walter Hagen	Right	Left	1
65	1930	Bobby Jones	Right	Left	1
66	1931	Tommy Armour	Right	?	?
67	1932	Gene Sarazen	Right	?	?
68	1933	Denny Shute	Right	?	?
69	1934	Henry Cotton	Right	?	?
70	1935	Alf Perry	Right	?	?
71	1936	Alf Padgham	Right	?	?
72	1937	Henry Cotton	Right	?	?
73	1938	R A Reg Whitcombe	Right	?	?
74	1939	Richard Burton	Right	?	?
	1940	Not Played			
	1941	Not Played			
	1942	Not Played			
	1943	Not Played			
	1944	Not Played			
	1945	Not Played			
75	1946	Sam Snead	Right	Left	1
76	1947	Fred Daly	Right	?	?
77	1948	Henry Cotton	Right	?	?
78	1949	Bobby Locke	Right	?	?
79	1950	Bobby Locke	Right	?	?
80	1951	Max Faulkner	Right	?	?
81	1952	Bobby Locke	Right	?	?
82	1953	Ben Hogan	Right	Left	1
83	1954	Peter Thompson	Right	?	?
84	1955	Peter Thompson	Right	?	?
85	1956	Peter Thompson	Right	?	?
86	1957	Bobby Locke	Right	?	?
87	1958	Peter Thompson	Right	?	?
88	1959	Gary Player	Right	?	?
89	1960	Kel Nagle	Right	?	?
90	1961	Arnold Palmer	Right	Left	1
91	1962	Arnold Palmer	Right	Left	1
92	1963	Bob Charles	Left	Right	1
93	1964	Tony Lema	Right	?	?
94	1965	Peter Thompson	Right	?	?
95	1966	Jack Nicklaus	Right	Left	1
96	1967	Robert de Vicenzo	Right	?	?
97	1968	Gary Player	Right	?	?
98	1969	Tony Jacklin	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
99	1970	Jack Nicklaus	Right	Left	1
100	1971	Lee Trevino	Right	?	?
101	1972	Lee Trevino	Right	?	?
102	1973	Tom Weiskopf	Right	?	?
103	1974	Gary Player	Right	?	?
104	1975	Tom Watson	Right	Cross Dominant	1
105	1976	Johnny Miller	Right	Left	1
106	1977	Tom Watson	Right	Cross Dominant	1
107	1978	Jack Nicklaus	Right	Left	1
108	1979	Seve Ballesteros	Right	?	?
109	1980	Tom Watson	Right	Cross Dominant	1
110	1981	Bill Rogers	Right	?	?
111	1982	Tom Watson	Right	Cross Dominant	1
112	1983	Tom Watson	Right	Cross Dominant	1
113	1984	Seve Ballesteros	Right	?	?
114	1985	Sandy Lyle	Right	?	?
115	1986	Greg Norman	Right	Left	1
116	1987	Nick Faldo	Right	Left	1
117	1988	Seve Ballesteros	Right	?	?
118	1989	Mark Calcavecchia	Right	?	?
119	1990	Nick Faldo	Right	Left	1
120	1991	Ian Baker Finch	Right	?	?
121	1992	Nick Faldo	Right	Left	1
122	1993	Greg Norman	Right	Left	1
123	1994	Nick Price	Right	Left	1
124	1995	John Daly	Right	?	?
125	1996	Tom Lehman	Right	?	?
126	1997	Justin Leonard	Right	?	?
127	1998	Mark O'Meara	Right	?	?
128	1999	Paul Lawrie	Right	?	?
129	2000	Tiger Woods	Right	Right	0
130	2001	David Duval	Right	?	?
131	2002	Ernie Els	Right	?	?
132	2003	Ben Curtis	Right	?	?
133	2004	Todd Hamilton	Right	?	?
134	2005	Tiger Woods	Right	Right	0
135	2006	Tiger Woods	Right	Right	0
136	2007	Padraig Harrington	Right	?	?
137	2008	Padraig Harrington	Right	?	?
138	2009	Stewart Cink	Right	?	?
139	2010	Louis Oosthuizen	Right	?	?
Totals					28
% of players who cross over					20.14%
% of players unconfirmed					77.70%

US Open Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	1895	Horace Rawlings	Right	?	?
2	1896	James Foulis	Right	?	?
3	1897	Joe Lloyd	Right	?	?
4	1898	Fred Herd	Right	?	?
5	1899	Willie Smith	Right	?	?
6	1900	Harry Vardon	Right	?	?
7	1901	Willie Anderson	Right	?	?
8	1902	Laurie Auchterlonie	Right	?	?
9	1903	Willie Anderson	Right	?	?
10	1904	Willie Anderson	Right	?	?
11	1905	Willie Anderson	Right	?	?
12	1906	Alex Smith	Right	?	?
13	1907	Alex Ross	Right	?	?
14	1908	Fred Mc Leod	Right	?	?
15	1909	George Sargent	Right	?	?
16	1910	Alex Smith	Right	?	?
17	1911	John Mc Dermott	Right	?	?
18	1912	John Mc Dermott	Right	?	?
19	1913	Francis Ouimet	Right	?	?
20	1914	Walter Hagen	Right	Left	1
21	1915	Jerome Travers	Right	?	?
22	1916	Charles Evans Jr	Right	?	?
	1917	Not Played			
	1918	Not Played			
23	1919	Walter Hagen	Right	Left	1
24	1920	Edward Ray	Right	?	?
25	1921	James M Barnes	Right	?	?
26	1922	Gene Sarazen	Right	?	?
27	1923	Bobby Jones	Right	Left	1
28	1924	Cyril Wright	Right	?	?
29	1925	Willie Mac Farlane	Right	?	?
30	1926	Bobby Jones	Right	Left	1
31	1927	Tommy Armour	Right	?	?
32	1928	Johnny Farrell	Right	?	?
33	1929	Bobby Jones	Right	Left	1
34	1930	Bobby Jones	Right	Left	1
35	1931	Billy Burke	Right	?	?
36	1932	Gene Sarazen	Right	?	?
37	1933	Johnny Goodman	Right	Cross Dominant	1
38	1934	Olin Dutra	Right	?	?
39	1935	Sam Parks Jr	Right	?	?
40	1936	Tony Manero	Right	?	?
41	1937	Ralph Guldahl	Right	?	?
42	1938	Ralph Guldahl	Right	?	?
43	1939	Byron Nelson	Right	Left	1

Number	Year	Player	Plays Golf	One Handed	X - Over
44	1940	Lawson Little	Right	?	?
45	1941	Craig Wood	Right	?	?
	1942	Not Played			
	1943	Not Played			
	1944	Not Played			
	1945	Not Played			
46	1946	Llyod Mangrum	Right	Left	1
47	1947	Lew Worsham	Right	?	?
48	1948	Ben Hogan	Right	Left	1
49	1949	Gary Middlecoff	Right	?	?
50	1950	Ben Hogan	Right	Left	1
51	1951	Ben Hogan	Right	Left	1
52	1952	Julius Boros	Right	?	?
53	1953	Ben Hogan	Right	Left	1
54	1954	Ed Furgol	Right	?	?
55	1955	Jack Fleck	Right	?	?
56	1956	Gary Middlecoff	Right	?	?
57	1957	Dick Meyer	Right	?	?
58	1958	Tommy Bolt	Right	?	?
59	1959	Billy Casper	Right	?	?
60	1960	Arnold Palmer	Right	Cross Dominant	1
61	1961	Gene Littler	Right	?	?
62	1962	Jack Nicklaus	Right	Left	1
63	1963	Julius Boros	Right	?	?
64	1964	Ken Venturi	Right	?	?
65	1965	Gary Player	Right	?	?
66	1966	Billy Casper	Right	?	?
67	1967	Jack Nicklaus	Right	Left	1
68	1968	Lee Trevino	Right	?	?
69	1969	Orville Moody	Right	?	?
70	1970	Tony Jacklin	Right	?	?
71	1971	Lee Trevino	Right	?	?
72	1972	Jack Nicklaus	Right	Left	1
73	1973	Johnny Miller	Right	Left	1
74	1974	Hale Irwin	Right	?	?
75	1975	Lou Graham	Right	?	?
76	1976	Jerry Pate	Right	?	?
77	1977	Hubert Green	Right	?	?
78	1978	Andy North	Right	?	?
79	1979	Hale Irwin	Right	?	?
80	1980	Jack Nicklaus	Right	Left	1
81	1981	David Graham	Right	Left	1
82	1982	Tom Watson	Right	Cross Dominant	1
83	1983	Larry Nelson	Right	?	?
84	1984	Fuzzy Zoeller	Right	Left	1
85	1985	Andy North	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
86	1986	Raymond Floyd	Right	Cross Dominant	1
87	1987	Scott Simpson	Right	?	?
88	1988	Curtis Strange	Right	Left	1
89	1989	Curtis Strange	Right	Left	1
90	1990	Hale Irwin	Right	?	?
91	1991	Payne Stewart	Right	?	?
92	1992	Tom Kite	Right	Left	1
93	1993	Lee Janzen	Right	?	?
94	1994	Ernie Els	Right	?	?
95	1995	Corey Pavin	Right	?	?
96	1996	Steve Jones	Right	?	?
97	1997	Ernie Els	Right	?	?
98	1998	Lee Janzen	Right	?	?
99	1999	Payne Stewart	Right	?	?
100	2000	Tiger Woods	Right	Right	0
101	2001	Retief Goosen	Right	?	?
102	2002	Tiger Woods	Right	Right	0
103	2003	Jim Furyk	Right	?	?
104	2004	Retief Goosen	Right	?	?
105	2005	Michael Campbell	Right	Left	1
106	2006	Geoff Ogilvy	Right	?	?
107	2007	Angel Cabrera	Right	?	?
108	2008	Tiger Woods	Right	Right	0
109	2009	Lucas Glover	Right	?	?
110	2010	Graeme Mc Dowell	Right	?	?
Totals					27
% of players who cross over					24.55%
% of players unconfirmed					72.73%

Masters Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	1934	Horton Smith	Right	?	?
2	1935	Gene Sarazen	Right	?	?
3	1936	Horton Smith	Right	?	?
4	1937	Byron Nelson	Right	Left	1
5	1938	Henry Picard	Right	?	?
6	1939	Ralph Guldahl	Right	?	?
7	1940	Jimmy Demaret	Right	Left	1
8	1941	Craig Wood	Right	?	?
9	1942	Byron Nelson	Right	Left	1
	1943	Not Played			
	1944	Not Played			
	1945	Not Played			
10	1946	Herman Keiser	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
11	1947	Jimmy Demaret	Right	Left	1
12	1948	Claude Harmon	Right	?	?
13	1949	Sam Snead	Right	Left	1
14	1950	Jimmy Demaret	Right	Left	1
15	1951	Ben Hogan	Right	Left	1
16	1952	Sam Snead	Right	Left	1
17	1953	Ben Hogan	Right	Left	1
18	1954	Sam Snead	Right	Left	1
19	1955	Gary Middlecoff	Right	?	?
20	1956	Jack Burke Jr	Right	?	?
21	1957	Doug Ford	Right	?	?
22	1958	Arnold Palmer	Right	Cross Dominant	1
23	1959	Art Wall	Right	?	?
24	1960	Arnold Palmer	Right	Cross Dominant	1
25	1961	Gary Player	Right	?	?
26	1962	Arnold Palmer	Right	Cross Dominant	1
27	1963	Jack Nicklaus	Right	Left	1
28	1964	Arnold Palmer	Right	Cross Dominant	1
29	1965	Jack Nicklaus	Right	Left	1
30	1966	Jack Nicklaus	Right	Left	1
31	1967	Gay Brewer	Right	?	?
32	1968	Bob Goalby	Right	?	?
33	1969	George Archer	Right	?	?
34	1970	Billy Casper	Right	?	?
35	1971	Charles Coody	Right	?	?
36	1972	Jack Nicklaus	Right	Left	1
37	1973	Tommy Aaron	Right	?	?
38	1974	Gary Player	Right	?	?
39	1975	Jack Nicklaus	Right	Left	1
40	1976	Raymond Floyd	Right	Cross Dominant	1
41	1977	Tom Watson	Right	Cross Dominant	1
42	1978	Gary Player	Right	?	?
43	1979	Fuzzy Zoeller	Right	Left	1
44	1980	Seve Ballesteros	Right	?	?
45	1981	Tom Watson	Right	Cross Dominant	1
46	1982	Craig Stadler	Right	?	?
47	1983	Seve Ballesteros	Right	?	?
48	1984	Ben Crenshaw	Right	?	?
49	1985	Bernhard Langer	Right	?	?
50	1986	Jack Nicklaus	Right	Left	1
51	1987	Larry Mize	Right	?	?
52	1988	Sandy Lyle	Right	?	?
53	1989	Nick Faldo	Right	Left	1
54	1990	Nick Faldo	Right	Left	1
55	1991	Ian Woosnam	Right	?	?
56	1992	Fred Couples	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
57	1993	Bernhard Langer	Right	?	?
58	1994	Jose Maria Olazabal	Right	?	?
59	1995	Ben Crenshaw	Right	?	?
60	1996	Nick Faldo	Right	Left	1
61	1997	Tiger Woods	Right	Right	0
62	1998	Mark O'Meara	Right	?	?
63	1999	Jose Maria Olazabal	Right	?	?
64	2000	Vijay Singh	Right	Cross Dominant	1
65	2001	Tiger Woods	Right	Right	0
66	2002	Tiger Woods	Right	Right	0
67	2003	Mike Weir	Left	Right	1
68	2004	Phil Mickelson	Left	Right	1
69	2005	Tiger Woods	Right	Right	0
70	2006	Phil Mickelson	Left	Right	1
71	2007	Zach Johnson	Right	?	?
72	2008	Trevor Immelman	Right	Left	1
73	2009	Angel Cabrera	Right	?	?
74	2010	Phil Mickelson	Left	Right	1
Totals					33
% of players who cross over					44.59%
% of players unconfirmed					50.00%

US PGA Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	1916	Jim Barnes	Right	?	?
	1917	Not Played			
	1918	Not Played			
2	1919	Jim Barnes	Right	?	?
3	1920	Jock Hutchinson	Right	?	?
4	1921	Walter Hagen	Right	Left	1
5	1922	Gene Sarazen	Right	?	?
6	1923	Gene Sarazen	Right	?	?
7	1924	Walter Hagen	Right	Left	1
8	1925	Walter Hagen	Right	Left	1
9	1926	Walter Hagen	Right	Left	1
10	1927	Walter Hagen	Right	Left	1
11	1928	Leo Diegel	Right	?	?
12	1929	Leo Diegel	Right	?	?
13	1930	Tommy Armour	Right	?	?
14	1931	Tom Creavy	Right	?	?
15	1932	Olin Dutra	Right	?	?
16	1933	Gene Sarazen	Right	?	?
17	1934	Paul Runyan	Right	?	?
18	1935	Johnny Revolta	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
19	1936	Denny Shute	Right	?	?
20	1937	Denny Shute	Right	?	?
21	1938	Paul Runyan	Right	?	?
22	1939	Henry Picard	Right	?	?
23	1940	Byron Nelson	Right	Left	1
24	1941	Vic Ghezzi	Right	?	?
25	1942	Sam Snead	Right	Left	1
	1943	Not Played			
26	1944	Bob Hamilton	Right	?	?
27	1945	Byron Nelson	Right	Left	1
28	1946	Ben Hogan	Right	Left	1
29	1947	Jim Ferrier	Right	?	?
30	1948	Ben Hogan	Right	Left	1
31	1949	Sam Snead	Right	Left	1
32	1950	Chandler Harper	Right	?	?
33	1951	Sam Snead	Right	Left	1
34	1952	Jim Turnesa	Right	?	?
35	1953	Walter Burkemo	Right	?	?
36	1954	Chick Harbet	Right	?	?
37	1955	Doug Ford	Right	?	?
38	1956	Jack Burke	Right	?	?
39	1957	Lionel Herbert	Right	?	?
40	1958	Dow Finsterwald	Right	?	?
41	1959	Jack Burke	Right	?	?
42	1960	Jay Hebert	Right	?	?
43	1961	Jerry Barber	Right	?	?
44	1962	Gary Player	Right	?	?
45	1963	Jack Nicklaus	Right	Left	1
46	1964	Bobby Nichols	Right	?	?
47	1965	Dave Marr	Right	?	?
48	1966	Al Geiberger	Right	?	?
49	1967	Don January	Right	?	?
50	1968	Julius Boros	Right	?	?
51	1969	Raymond Floyd	Right	Cross Dominant	1
52	1970	Dave Stockton	Right	?	?
53	1971	Jack Nicklaus	Right	Left	1
54	1972	Gary Player	Right	?	?
55	1973	Jack Nicklaus	Right	Left	1
56	1974	Lee Trevino	Right	?	?
57	1975	Jack Nicklaus	Right	Left	1
58	1976	Dave Stockton	Right	?	?
59	1977	Lanny Watkins	Right	?	?
60	1978	John Mahaffey	Right	?	?
61	1979	David Graham	Right	Left	1
62	1980	Jack Nicklaus	Right	Left	1
63	1981	Larry Nelson	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
64	1982	Raymond Floyd	Right	Cross Dominant	1
65	1983	Hal Sutton	Right	?	?
66	1984	Lee Trevino	Right	?	?
67	1985	Hubert Green	Right	?	?
68	1986	Bob Tway	Right	?	?
69	1987	Larry Nelson	Right	?	?
70	1988	Jeff Sluman	Right	?	?
71	1989	Payne Stewart	Right	?	?
72	1990	Wayne Grady	Right	?	?
73	1991	John Daly	Right	?	?
74	1992	Nick Price	Right	Left	1
75	1993	Paul Azinger	Right	?	?
76	1994	Nick Price	Right	Left	1
77	1995	Steve Elkington	Right	?	?
78	1996	Mark Brooks	Right	?	?
79	1997	Davis Love 111	Right	?	?
80	1998	Vijay Singh	Right	Cross Dominant	1
81	1999	Tiger Woods	Right	Right	0
82	2000	Tiger Woods	Right	Right	0
83	2001	David Toms	Right	?	?
84	2002	Rich Beem	Right	?	?
85	2003	Shaun Micheel	Right	?	?
86	2004	Vijay Singh	Right	Cross Dominant	1
87	2005	Phil Mickelson	Left	Right	1
88	2006	Tiger Woods	Right	Right	0
89	2007	Tiger Woods	Right	Right	0
90	2008	Padraig Harrington	Right	?	?
91	2009	Y E Yang	Right	?	?
92	2010	Martin Kaymer	Right	?	?
Totals					25
% of players who cross over					27.17%
% of players unconfirmed					68.48%

McDonalds LPGA Championship Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	2010	Cristie Kerr	Right	Left	1
2	2009	Anna Nordqvist	Right	?	?
3	2008	Yani Tseng	Right	?	?
4	2007	Suzann Pettersen	Right	?	?
5	2006	Se Ri Pak	Right	?	?
6	2005	Annika Sorenstam	Right	Right	0
7	2004	Annika Sorenstam	Right	Right	0
8	2003	Annika Sorenstam	Right	Right	0
9	2002	Se Ri Pak	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
10	2001	Karrie Webb	Right	?	?
11	2000	Juli Inkster	Right	?	?
12	1999	Juli Inkster	Right	?	?
13	1998	Se Ri Pak	Right	?	?
14	1997	Christa Johnson	Right	?	?
15	1996	Laura Davies	Right	?	?
16	1995	Kelly Robbins	Right	?	?
17	1994	Laura Davies	Right	?	?
18	1993	Patty Sheehan	Right	?	?
19	1992	Betsy King	Right	?	?
20	1991	Meg Mallon	Right	?	?
21	1990	Beth Daniel	Right	Left	1
22	1989	Nancy Lopez	Right	?	?
23	1988	Sherri Turner	Right	?	?
24	1987	Jane Geddes	Right	?	?
25	1986	Pat Bradley	Right	?	?
26	1985	Nancy Lopez	Right	?	?
27	1984	Patty Sheehan	Right	?	?
28	1983	Patty Sheehan	Right	?	?
29	1982	Jan Stephenson	Right	?	?
30	1981	Donna Caponi	Right	?	?
31	1980	Sally Little	Right	Left	1
32	1979	Donna Caponi	Right	?	?
33	1978	Nancy Lopez	Right	?	?
34	1977	Chako Higuchi	Right	?	?
35	1976	Betty Burfeindt	Right	?	?
36	1975	Kathy Whitworth	Right	?	?
37	1974	Sandra Haynie	Right	?	?
38	1973	Mary Mills	Right	?	?
39	1972	Kathy Ahern	Right	?	?
40	1971	Kathy Whitworth	Right	?	?
41	1970	Shirley Englehorn	Right	?	?
	1969	Not Played			
42	1968	Sandra Post	Right	?	?
43	1967	Kathy Whitworth	Right	?	?
44	1966	Gloria Ehret	Right	?	?
45	1965	Sandra Haynie	Right	?	?
46	1964	Mary Mills	Right	?	?
47	1963	Mickey Wright	Right	?	?
48	1962	Judy Kimball	Right	?	?
49	1961	Mickey Wright	Right	?	?
50	1960	Mickey Wright	Right	?	?
51	1959	Betsy Rawls	Right	?	?
52	1958	Mickey Wright	Right	?	?
53	1957	Louise Suggs	Right	?	?
54	1956	Marlene Hagge	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
55	1955	Beverly Hanson	Right	?	?
Totals					3
% of players who cross over					5%
% of players unconfirmed					89.09%

Kraft Nabisco LPGA Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	2010	Yani Tseng, 275	Right	?	?
2	2009	Brittany Lincicome, 279	Right	?	?
3	2008	Lorena Ochoa, 277	Right	?	?
4	2007	Morgan Pressel, 285	Right	?	?
5	2006	Karrie Webb, 279	Right	?	?
6	2005	Annika Sorenstam, 273	Right	Right	0
7	2004	Grace Park, 277	Right	?	?
8	2003	Patricia Meunier-Lebouc, 281	Right	?	?
9	2002	Annika Sorenstam, 280	Right	Right	0
10	2001	Annika Sorenstam, 281	Right	Right	0
11	2000	Karrie Webb, 274	Right	?	?
12	1999	Dottie Pepper, 269	Right	?	?
13	1998	Pat Hurst, 281	Right	Cross Dominant	1
14	1997	Betsy King, 276	Right	?	?
15	1996	Patty Sheehan, 281	Right	?	?
16	1995	Nanci Bowen, 285	Right	?	?
17	1994	Donna Andrews, 276	Right	?	?
18	1993	Helen Alfredsson, 284	Right	?	?
19	1992	Dottie (Pepper) Mochrie, 279	Right	?	?
20	1991	Amy Alcott, 273	Right	?	?
21	1990	Betsy King, 283	Right	?	?
22	1989	Juli Inkster, 279	Right	?	?
23	1988	Amy Alcott, 274	Right	?	?
24	1987	Betsy King, 283	Right	?	?
25	1986	Pat Bradley, 280	Right	?	?
26	1985	Alice Miller, 275	Right	?	?
27	1984	Juli Inkster, 280	Right	?	?
28	1983	Amy Alcott, 282	Right	?	?
Totals					1
% of players who cross over					4%
% of players unconfirmed					85.71%

British Women's Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	2010	Yani Tseng	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
2	2009	Catriona Matthew	Right	?	?
3	2008	Ji-Yai Shin	Right	?	?
4	2007	Lorena Ochoa	Right	?	?
5	2006	Sherri Steinhauer	Right	?	?
6	2005	Jeong Jang	Right	?	?
7	2004	Karen Stupples	Right	?	?
8	2003	Annika Sorenstam	Right	Right	0
9	2002	Karrie Webb	Right	?	?
10	2001	Se Ri Pak	Right	?	?
11	2000	Sophie Gustafson	Right	?	?
12	1999	Sherri Steinhauer	Right	?	?
13	1998	Sherri Steinhauer	Right	?	?
14	1997	Karrie Webb	Right	?	?
15	1996	Emilee Klein	Right	?	?
16	1995	Karrie Webb	Right	?	?
17	1994	Liselotte Neumann	Right	?	?
18	1993	Karen Lunn	Right	?	?
19	1992	Patty Sheehan	Right	?	?
20	1991	Penny Grice-Whittaker	Right	?	?
21	1990	Helen Alfredsson	Right	?	?
22	1989	Jane Geddes	Right	?	?
23	1988	Corinne Dibnah	Right	?	?
24	1987	Alison Nicholas	Right	?	?
25	1986	Laura Davies	Right	?	?
26	1985	Betsy King	Right	?	?
27	1984	Ayako Okamoto	Right	Left	1
	1983	Not Played	Right		
28	1982	Marta Figueras-Dotti	Right	?	?
29	1981	Debbie Massey	Right	?	?
30	1980	Debbie Massey	Right	?	?
31	1979	Alison Sheard	Right	?	?
32	1978	Janet Melville	Right	?	?
33	1977	Vivien Saunders	Right	?	?
34	1976	Jenny Lee Smith	Right	?	?
Totals					1
% of players who cross over					3%
% of players unconfirmed					94.11%

US Women's Open Winners

Number	Year	Player	Plays Golf	One Handed	X - Over
1	2010	Paula Creamer	Right	?	?
2	2009	Eun-Hee Ji	Right	?	?
3	2008	Inbee Park	Right	?	?
4	2007	Cristie Kerr	Right	Left	1

Number	Year	Player	Plays Golf	One Handed	X - Over
5	2006	Annika Sorenstam	Right	Right	0
6	2005	Birdie Kim	Right	?	?
7	2004	Meg Mallon	Right	?	?
8	2003	Hillary Lunke	Right	?	?
9	2002	Juli Inkster	Right	?	?
10	2001	Karrie Webb	Right	?	?
11	2000	Karrie Webb	Right	?	?
12	1999	Juli Inkster	Right	?	?
13	1998	Se Ri Pak	Right	?	?
14	1997	Alison Nicholas	Right	?	?
15	1996	Annika Sorenstam	Right	Right	0
16	1995	Annika Sorenstam	Right	Right	0
17	1994	Patty Sheehan	Right	?	?
18	1993	Lauri Merten	Right	?	?
19	1992	Patty Sheehan	Right	?	?
20	1991	Meg Mallon	Right	?	?
21	1990	Betsy King	Right	?	?
22	1989	Betsy King	Right	?	?
23	1988	Liselotte Neumann	Right	?	?
24	1987	Laura Davies	Right	?	?
25	1986	Jane Geddes	Right	?	?
26	1985	Kathy Baker (Guadagnino)	Right	?	?
27	1984	Hollis Stacy	Right	Cross Dominant	1
28	1983	Jan Stephenson	Right	?	?
29	1982	Janet Anderson	Right	?	?
30	1981	Pat Bradley	Right	?	?
31	1980	Amy Alcott	Right	?	?
32	1979	Jerilyn Britz	Right	?	?
33	1978	Hollis Stacy	Right	Cross Dominant	1
34	1977	Hollis Stacy	Right	Cross Dominant	1
35	1976	JoAnne Carner	Right	Left	1
36	1975	Sandra Palmer	Right	?	?
37	1974	Sandra Haynie	Right	?	?
38	1973	Susie Berning	Right	?	?
39	1972	Susie Berning	Right	?	?
40	1971	JoAnne Carner	Right	Left	1
41	1970	Donna Caponi	Right	?	?
42	1969	Donna Caponi	Right	?	?
43	1968	Susie Berning	Right	?	?
44	1967	(a) Catherine LaCoste	Right	?	?
45	1966	Sandra Spuzich	Right	?	?
46	1965	Carol Mann	Right	?	?
47	1964	Mickey Wright	Right	?	?
48	1963	Mary Mills	Right	?	?
49	1962	Murle Breer	Right	?	?
50	1961	Mickey Wright	Right	?	?

Number	Year	Player	Plays Golf	One Handed	X - Over
51	1960	Betsy Rawls	Right	?	?
52	1959	Mickey Wright	Right	?	?
53	1958	Mickey Wright	Right	?	?
54	1957	Betsy Rawls	Right	?	?
55	1956	Kathy Cornelius	Right	?	?
56	1955	Fay Crocker	Right	?	?
57	1954	Babe Zaharias	Right	Right	0
58	1953	Betsy Rawls	Right	?	?
59	1952	Louise Suggs	Right	?	?
60	1951	Betsy Rawls	Right	?	?
61	1950	Babe Zaharias	Right	Right	0
62	1949	Louise Suggs	Right	?	?
63	1948	Babe Zaharias	Right	Right	0
64	1947	Betty Jameson	Right	?	?
65	1946	Patty Berg	Right	?	?
Totals					6
% of players who cross over					9%
% of players unconfirmed					81.54%

Men's Cricket Overall Statistics

Team	Squad Size	X Over or Cross Dominant	Left Handed Players
Australia	32	11	5
England	23	5	4
South Africa	24	10	3
India	31	5	4
Sri Lanka	29	6	4
Pakistan	32	6	5
New Zealand	30	4	3
West Indies	28	7	3
Bangladesh	23	4	5
Totals	252	58	36
% of players who X Over or Cross Dominant		23.02%	
% of players who are Left Handed			14.29%

Ladies Cricket Overall Statistics

Team	Squad Size	X Over or Cross Dominant	Left Handed Players	Players Unconfirmed
Australia	18	0	2	1
England	17	1	1	1
India	15	1	0	3
New Zealand	17	6	0	4
South Africa	14	3	1	2
Totals	81	11	4	11
% of players who X Over or Cross Dominant		13.58%		
% of players who are Left Handed			4.94%	
% of players unconfirmed				13.58%

Top Men's Test Cricket Averages of All Time - November 2010

Rank	Batsman	Tests	Inns	no.	Runs	Highest	Ave	Years Played	Bats	Bowls	X Over	Left All
1	D.G. Bradman	52	80	10	6996	334	99.94	1928–1948	Right	Right	0	0
2	R.G. Pollock	23	41	4	2256	274	60.97	1963–1970	Left	Right	1	0
3	G.A. Headley	22	40	4	2190	270*	60.83	1930–1954	Right	Right	0	0
4	H. Sutcliffe	54	84	9	4555	194	60.73	1924–1935	Right	Right	0	0
5	E. Paynter	20	31	5	1540	243	59.23	1931–1939	Left	Right	1	0
6	K.F. Barrington	82	131	15	6806	256	58.67	1955–1968	Right	Right	0	0
7	E.D. Weekes	48	81	5	4455	207	58.61	1948–1958	Right	Right	0	0
8	W.R. Hammond	85	140	16	7249	336*	58.45	1927–1947	Right	Right	0	0
9	G.S. Sobers	93	160	21	8032	365*	57.78	1954–1974	Left	Left	0	1
10	S.R. Tendulkar	171	280	30	14240	248*	56.96	15/11/1989	Right	Right	0	0
11	J.B. Hobbs	61	102	7	5410	211	56.94	1908–1930	Right	Right	0	0
12	K.C Sangakkara	91	152	11	8016	287	56.85	20/07/2000	Left	Right	1	0
13	C.L. Walcott	44	74	7	3798	220	56.68	1948–1960	Right	Right	0	0
14	L. Hutton	79	138	15	6971	364	56.67	1937–1955	Right	Right	0	0
15	J.H. Kallis	140	237	35	11126	189*	55.07	14/12/1995	Right	Right	0	0
16	G.E. Tyldesley	14	20	2	990	122	55	1921–1929	Right	Right	0	0
17	R.T. Ponting	148	251	27	12250	257	54.68	8/12/1995	Right	Right	0	0
18	D.P.M.D Jayawardene	113	187	13	9408	374	54.06	2/08/1997	Right	Right	0	0
19	C.A. Davis	15	29	5	1301	183	54.2	1968–1973	Right	Right	0	0
20	V.G. Kambli	17	21	1	1084	227	54.2	1993–1995	Left	Right	1	0
21	G.S. Chappell	87	151	19	7110	247*	53.86	1970–1984	Right	Right	0	0
22	A.D. Nourse	34	62	7	2960	231	53.81	1935–1951	Right	Right	0	0
23	T.T Samaraweera	60	95	16	4244	231	53.72	28/08/2001	Right	Right	0	0
24	V Sehwag	81	139	5	7152	319	53.37	3/11/2001	Right	Right	0	0
25	Mohammad Yousuf	89	154	12	7520	223	52.95	26/02/1998	Right	Right	0	0
26	B.C. Lara	131	232	6	11953	400*	52.88	1990–2006	Left	Right	1	0
27	R.S Dravid	144	249	29	11602	270	52.73	2/08/1996	Right	Right	0	0
28	Javed Miandad	124	189	21	8832	280*	52.57	1976–1993	Right	Right	0	0
29	J. Ryder	20	32	5	1394	201*	51.62	1920–1929	Right	Right	0	0
30	G. Gambhir	33	59	4	2825	206	51.36	3/11/2004	Left	Right	0	0
Total											5	1
As a % of Total Players											16.67%	3.33%
Total Right Handed %											80.00%	

Top Men's One Day Averages of All Time - November 2010

Rank	Batsman	ODIs	Inns	no.	Runs	Highest	Ave	S.R.	Debut	Bats	Bowls	X Over	Left All
1	R.T Doeschate	27	26	8	1234	109*	68.58	87.33	4-Jul-06	Right	Right	0	0
2	H.M.Amla	29	28	3	1371	140	54.84	88.56	9-Mar-08	Right	Right	0	0
3	M.G. Bevan	232	196	67	6912	108*	53.58	74.16	1994–2004	Left	Left	0	1
4	M.E.K.Hussey	146	121	38	4287	109*	51.65	88.48	1-Feb-04	Left	Right	1	0
5	M.S.Dhoni	170	151	39	5666	183*	50.58	89.21	23-Dec-04	Right	Right	0	0
6	Zaheer Abbas	62	60	6	2572	123	47.62	84.8	1974–1985	Right	Right	0	0
7	I.V.A. Richards	187	167	24	6721	189*	47	90.2	1975–1991	Right	Right	0	0
8	G.M. Turner	41	40	6	1598	171*	47	68.05	1973–1983	Right	Right	0	0
9	J.H. Kallis	303	289	52	10838	139	45.72	72.72	9-Jan-96	Right	Right	0	0
10	S.R.Tendulkar	442	431	41	17598	200*	45.12	86.26	18-Dec-89	Right	Right	0	0
11	C.G. Greenidge	128	127	13	5134	133*	45.03	64.92	1975–1991	Right	Right	0	0
12	D.M. Jones	164	161	25	6068	145	44.61	72.56	1984–1994	Right	Right	0	0
13	R.R. Sarwan	156	146	30	5098	115*	43.94	77.52	20-Jul-00	Right	Right	0	0
14	M.L. Hayden †	161	155	15	6133	181*	43.8	78.96	1993–2008	Left	Right	1	0
15	AB de Villiers	101	97	14	3616	146	43.56	89.41	2-Feb-05	Right	Right	0	0
16	M.J. Clarke	178	162	34	5509	130	43.03	77.62	19-Jan-03	Right	Left	1	0
17	Ricky Ponting	351	342	37	13072	164	42.85	80.64	15-Feb-95	Right	Right	0	0
18	H.H. Dippenaar	107	95	14	3421	125*	42.23	67.78	1999–2007	Right	Right	0	0
19	Javed Miandad	233	218	41	7381	119*	41.7	67.01	1975–1996	Right	Right	0	0
20	D.L. Haynes	238	237	28	8648	152*	41.37	63.09	1978–1994	Right	Right	0	0
Total												3	1
As a % of Total Players												15.00%	5.00%
Total Right Handed %												80.00%	

Australian Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Ben Hilfenhaus	Right	Right	0	0
2	Brad Haddin	Right	Right	0	0
3	Callum Ferguson	Right	Right	0	0
4	Cameron White	Right	Right	0	0
5	Clint McKay	Right	Right	0	0
6	David Hussey	Right	Right	0	0
7	David Warner	Right	Left	1	0
8	Dirk Nannes	Left	Right	1	0
9	Doug Bolinger	Left	Left	0	1
10	James Hopes	Right	Right	0	0
11	John Hastings	Right	Right	0	0
12	Josh Hazelwood	Right	Left	1	0
13	Marcus North	Right	Left	1	0
14	Michael Beer	Left	Right	1	0
15	Michael Clark	Left	Right	1	0
16	Michael Hussey	Right	Left	1	0
17	Mitchell Johnston	Left	Left	0	1
18	Mitchell Starc	Right	Left	1	0
19	Peter George	Right	Right	0	0
20	Peter Siddle	Right	Right	0	0
21	Phillip Hughes	Right	Left	1	0
22	Ricky Ponting	Right	Right	0	0
23	Ryan Harris	Right	Right	0	0
24	Shane Watson	Right	Right	0	0
25	Shaun Marsh	Left	Left	0	1
26	Shaun Tait	Right	Right	0	0
27	Simon Katich	Left	Left	0	1
28	Stephen O'Keefe	Left	Right	1	0
29	Steven Smith	Right	Right	0	0
30	Tim Paine	Right	Right	0	0
31	Usman Khawaja	Right	Left	1	0
32	Xavier Doherty	Left	Left	0	1
Total				11	5
As a % of Total Players				34.38%	15.63%
Total Right Handed %				50.00%	

England Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Ajmal Shahzad	Right	Right	0	0
2	Alistar Cook	Right	Left	1	0
3	Andrew Strauss	Left	Left	0	1
4	Chris Tremlett	Right	Right	0	0
5	Craig Kieswetter	Right	Right	0	0
6	Eoin Morgan	Right	Left	1	0
7	Graeme Swan	Right	Right	0	0
8	Ian Bell	Right	Right	0	0
9	James Anderson	Right	Left	1	0
10	James Tredwell	Right	Left	1	0
11	Jonathon Trott	Right	Right	0	0
12	Kevin Pieterston	Right	Right	0	0
13	Luke Wright	Right	Right	0	0
14	Matt Prior	Right	Right	0	0
15	Michael Yardy	Left	Left	0	1
16	Monty Panasar	Left	Left	0	1
17	Paul Collingwood	Right	Right	0	0
18	Ravi Bopara	Right	Right	0	0
19	Ryan Sidebottom	Left	Left	0	1
20	Steve Davies	Right	Left	0	0
21	Steven Finn	Right	Right	0	0
22	Sturat Broad	Right	Left	1	0
23	Tim Bresnan	Right	Right	0	0
Total				5	4
As a % of Total Players				21.74%	17.39%
Total Right Handed %				60.87%	

South African Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	AB de Villiers	Right	Right	0	0
2	Albie Morkel	Right	Left	1	0
3	Alviro Petersen	Right	Right	0	0
4	Ashwell Prince	Right	Left	1	0
5	Charl Langeveldt	Right	Right	0	0
6	Colin Ingram	Left	Left	0	1
7	Dale Stein	Right	Right	0	0
8	David Miller	Right	Left	1	0
9	Graeme Smith	Right	Left	1	0
10	Hasim Amla	Right	Right	0	0
11	Heino Kuhn	Right	Right	0	0
12	Jaques Kallis	Right	Right	0	0
13	Johan Botha	Right	Right	0	0
14	JP Duminy	Right	Left	1	0
15	Juan Theron	Right	Right	0	0
16	Lanwabo Tsotsobe	Left	Right	1	0
17	Loots Bosman	Right	Right	0	0
18	Mark Boucher	Right	Right	0	0
19	Morne Morkel	Right	Left	1	0
20	Paul Harris	Left	Right	1	0
21	Robin Peterson	Left	Left	0	1
22	Roelof van der Merwe	Left	Right	1	0
23	Ryan Mc Laren	Right	Left	1	0
24	Wayne Parnell	Left	Left	0	1
Totals				10	3
As a % of Total Players				41.67%	12.50%
Total Right Handed %				45.83%	

Indian Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Abhimanyu Mithun	Right	Right	0	0
2	Amit Mishra	Right	Right	0	0
3	Ashish Nehra	Left	Right	1	0
4	Ashok Dinda	Right	Right	0	0
5	Cheteshwar Pujara	Right	Right	0	0
6	Dinesh Karthik	Right	Right	0	0
7	Gautam Gambhir	Right	Left	1	0
8	Harbhajan Singh	Right	Right	0	0
9	Ishant Sharma	Right	Right	0	0
10	MS Dhoni	Right	Right	0	0
11	Munaf Vijay	Right	Right	0	0
12	Naman Ojha	Right	Right	0	0
13	Pragyan Ojha	Left	Left	0	1
14	Praveen Kumar	Right	Right	0	0
15	Rahul Dravid	Right	Right	0	0
16	Ravichandran Ashwin	Right	Right	0	0
17	Ravindra Jadeja	Left	Left	0	1
18	Rohit Sharma	Right	Right	0	0
19	S Sreesanth	Right	Right	0	0
20	Sachin Tendulkar	Right	Right	0	0
21	Saurabh Tiwary	Right	Left	1	0
22	Shikhar Dhawan	Left	Left	0	1
23	Suresh Raina	Right	Left	1	0
24	Vinay Kumar	Right	Right	0	0
25	Virat Kohli	Right	Right	0	0
26	Virender Sehwag	Right	Right	0	0
27	VVS Laxman	Right	Right	0	0
28	Wriddhiman Saha	Right	Right	0	0
29	Yusaf Pathan	Right	Right	0	0
30	Yuvraj Singh	Left	Left	0	1
31	Zaheer Kahn	Left	Right	1	0
Totals				5	4
As a % of Total Players				16.13%	12.90%
Total Right Handed %				70.97%	

Sri Lankan Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Ajenth Mendis	Right	Right	0	0
2	Angelo Mathews	Right	Right	0	0
3	Chamara Kapugedara	Right	Right	0	0
4	Chamara Silva	Right	Right	0	0
5	Chanaka Welegedara	Left	Right	1	0
6	Dammika Prasad	Right	Right	0	0
7	Dilhara Fernando	Right	Right	0	0
8	Dinesh Chandimal	Right	Right	0	0
9	Farueez Maharoof	Right	Right	0	0
10	Jeewan Mendis	Left	Left	0	1
11	Kaushal Silva	Right	Right	0	0
12	Kumar Sangakkara	Right	Left	1	0
13	Lahiru Thirimanne	Right	Left	1	0
14	Lasith Malinga	Right	Right	0	0
15	Mahela Jayawardene	Right	Right	0	0
16	Muttiah Muralidaran	Right	Right	0	0
17	Nuwan Kulasekara	Right	Right	0	0
18	Prasanna Jayawardene	Right	Right	0	0
19	Rangana Herath	Left	Left	0	1
20	Shaminda Eranga	Right	Right	0	0
21	Suraj Randiv	Right	Right	0	0
22	Suranga Lakmal	Right	Right	0	0
23	Tharanga Paranavitana	Right	Left	1	0
24	Thilan Samaraweera	Right	Right	0	0
25	Thilan Thushara	Left	Left	0	1
26	Thilna Kandaamby	Left	Left	0	1
27	Thissara Perera	Right	Left	1	0
28	Tilakaratne Dilshan	Right	Right	0	0
29	Upal Tharanga	Right	Left	1	0
Totals				6	4
As a % of Total Players				20.69%	13.79%
Total Right Handed %				65.52%	

Pakistan Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Abdul Razzaq	Right	Right	0	0
2	Abdur Rehman	Left	Left	0	1
3	Adnan Akmal	Right	Right	0	0
4	Asad Shafiq	Right	Right	0	0
5	Azhar Ali	Right	Right	0	0
6	Danish Kaneria	Right	Right	0	0
7	Fawad Alam	Left	Left	0	1
8	Imran Farhat	Left	Left	0	1
9	Kamran Akmal	Right	Right	0	0
10	Misbah ul Haq	Right	Right	0	0
11	Mohammad Amir	Left	Left	0	1
12	Mohammad Asif	Right	Left	1	0
13	Mohammad Hafeez	Right	Right	0	0
14	Mohammad Irfan	Left	Right	1	0
15	Mohammad Sami	Right	Right	0	0
16	Mohammad Yusuf	Right	Right	0	0
17	Saeed Ajmal	Right	Right	0	0
18	Salman Butt	Right	Left	1	0
19	Shahid Afridi	Right	Right	0	0
20	Shahzaib Hasan	Right	Right	0	0
21	Shoaib Akhtar	Right	Right	0	0
22	Shoaib Malik	Right	Right	0	0
23	Sohail Tanvir	Left	Left	0	1
24	Tanvir Ahmed	Right	Right	0	0
25	Taufeeq Umar	Right	Left	1	0
26	Umar Akmal	Right	Right	0	0
27	Umar Amin	Right	Left	1	0
28	Umar Gul	Right	Right	0	0
29	Wahab Riaz	Left	Right	1	0
30	Yasir Hameed	Right	Right	0	0
31	Younis Kahn	Right	Right	0	0
32	Zulqarnain Haider	Right	Right	0	0
Totals				6	5
As a % of Total Players				18.75%	15.63%
Total Right Handed %				65.63%	

New Zealand Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Aaron Redmond	Right	Right	0	0
2	Andy Mc Kay	Left	Right	1	0
3	Bradley Watling	Right	Right	0	0
4	Brendon Mc Cullum	Right	Right	0	0
5	Brent Arnel	Right	Right	0	0
6	Chris Martin	Right	Right	0	0
7	Daniel Vettori	Left	Left	0	1
8	Daryl Tuffey	Right	Right	0	0
9	Gareth Hopkins	Right	Right	0	0
10	Grant Elliott	Right	Right	0	0
11	Hamish Bennett	Left	Left	0	1
12	Ian Butler	Right	Right	0	0
13	Jacon Oram	Right	Left	1	0
14	James Faulker	Left	Left	0	1
15	Jamie How	Right	Right	0	0
16	Jeetan Patel	Right	Right	0	0
17	Jesse Ryder	Right	Left	1	0
18	Kane Williamson	Right	Right	0	0
19	Kyle Mills	Right	Right	0	0
20	Martin Gupatil	Right	Right	0	0
21	Matthew Sinclair	Right	Right	0	0
22	Nathan Mc Cullam	Right	Right	0	0
23	Peter Ingram	Right	Right	0	0
24	Rob Nichol	Right	Right	0	0
25	Ross Taylor	Right	Right	0	0
26	Scott Styris	Right	Right	0	0
27	Shanan Stewart	Right	Right	0	0
28	Shane Bond	Right	Right	0	0
29	Tim Mc Intosh	Right	Left	1	0
30	Tim Southee	Right	Right	0	0
Totals				4	3
As a % of Total Players				13.33%	10.00%
Total Right Handed %				76.67%	

West Indian Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Adrian Barath	Right	Right	0	0
2	Andre Fletcher	Right	Right	0	0
3	Andre Russell	Right	Right	0	0
4	Brandon Bess	Right	Right	0	0
5	Brendan Nash	Left	Left	0	1
6	Carlton Baugh	Right	Right	0	0
7	Chris Gayle	Right	Left	1	0
8	Dale Richards	Right	Right	0	0
9	Darren Bravo	Left	Left	0	1
10	Darren Sammy	Right	Right	0	0
11	David Bernard	Right	Right	0	0
12	Denesh Ramdin	Right	Right	0	0
13	Devon Smith	Right	Left	1	0
14	Devon Thomas	Right	Right	0	0
15	Dwayne Bravo	Right	Right	0	0
16	Jerome Taylor	Right	Right	0	0
17	Kemar Roach	Right	Right	0	0
18	Kieron Pollard	Right	Right	0	0
19	Narsingh Deonarine	Right	Left	1	0
20	Nelon Pascal	Right	Right	0	0
21	Nikita Miller	Left	Right	1	0
22	Ramnaresh Sarwan	Right	Right	0	0
23	Ravi Rampaul	Right	Left	1	0
24	Shane Shillingford	Right	Right	0	0
25	Shivnarine Chanderpaul	Right	Left	1	0
26	Sulieman Benn	Left	Left	0	1
27	Travis Dowlin	Right	Right	0	0
28	Wavell Hinds	Right	Left	1	0
Totals				7	3
As a % of Total Players				25.00%	10.71%
Total Right Handed %					64.29%

Bangladesh Men's Squad - November 2010

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Abdur Razzak	Left	Left	0	1
2	Afteb Ahmed	Right	Right	0	0
3	Dollar Mahumd	Right	Right	0	0
4	Faisal Hossain	Left	Left	0	1
5	Imrul Kayes	Right	Left	1	0
6	Jahurul Islam	Right	Right	0	0
7	Mahmudullah Riyad	Right	Right	0	0
8	Mashrafe Mortaza	Right	Right	0	0
9	Mohammad Ashraful	Right	Right	0	0
10	Mushfiqur Rahim	Right	Right	0	0
11	Naeem Islam	Right	Right	0	0
12	Nazmul Hossain	Right	Right	0	0
13	Raqibul Hasan	Right	Right	0	0
14	Robiul Isalam	Right	Right	0	0
15	Rubel Hossain	Right	Right	0	0
16	Shafiul Islam	Right	Right	0	0
17	Shahadat Hossain	Right	Right	0	0
18	Shahriar Nafees	Right	Left	1	0
19	Shakib al Hasan	Left	Left	0	1
20	Suhrawadi Shuvo	Left	Right	1	0
21	Syed Rasel	Left	Left	0	1
22	Tamim Iqbal	Left	Left	0	1
23	Zunaied Siddique	Right	Left	1	0
Totals				4	5
As a % of Total Players				17.39%	21.74%
Total Right Handed %					60.87%

Australian Women's Squad - February 2011

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Kristen Beams	Right	Right	0	0
2	Alex Blackwell	Right	Right	0	0
3	Jessica Cameron	Right	Right	0	0
4	Lauren Ebsary	Right	Right	0	0
5	Sarah Elliot	Right	Right	0	0
6	Renee Farrell	Right	Right	0	0
7	Jodie Fields	Right	Right	0	0
8	Rachel Haynes	Left	Left	0	1
9	Alissa Healy	?	Right	?	0
10	Julie Hunter	Right	Right	0	0
11	Erin Osbourne	Right	Right	0	0
12	Shelley Nitschke	Left	Left	0	1
13	Ellyse Perry	Right	Right	0	0
14	Kristen Pike	Right	Right	0	0
15	Leah Poulton	Right	Right	0	0
16	Elyse Villani	Right	Right	0	0
17	Lisa Sthalekar	Right	Right	0	0
18	Julie Woerner	Right	Right	0	0
Totals				0	2
As a % of Total Players				0.00%	11.11%
Total Right Handed %					83.34%
% of players unconfirmed					5.55%

Indian Women's Squad - February 2011

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Jhulan Goswami	Right	Right	0	0
2	Mithali Raj	Right	Right	0	0
3	Doonam Raut	Right	Right	0	0
4	Harmanpreet Kaur	Right	Right	0	0
5	Rumeli Dhar	Right	Right	0	0
6	Amita Sharma	Right	Right	0	0
7	Anagha Deshpande	?	Right	?	0
8	Soniya Dabir	Right	Right	0	0
9	Diana David	Right	Right	0	0
10	Gouhar Sultana	Left	Right	1	0
11	Reema Malhortra	?	Right	?	0
12	Priyanka Roy	?	Right	?	0
13	Samantha Lobatto	Right	Right	0	0
14	Neha Tanwar	Right	Right	0	0
15	Snehal Pradhan	Right	Right	0	0
Totals				1	0
As a % of Total Players				6.67%	0.00%
Total Right Handed %					73.33%
% of players unconfirmed					20.00%

New Zealand Women's Squad - February 2011

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Abby Burrows	Right	Left	1	0
2	Aimee Watkins	Right	Left	1	0
3	Any Satterthwaite	Right	Left	1	0
4	Emma Campbell	Right	Right	0	0
5	Kate Broadmore	Right	Right	0	0
6	Katey Martin	?	Right	?	0
7	Lucy Doolan	Right	Right	0	0
8	Maria Fahey	Right	Left	1	0
9	Nicola Browne	Right	Right	0	0
10	Rachel Priest	?	Right	?	0
11	Sara Mc Glashan	?	Right	?	0
12	Sara Tsukigawa	Right	Right	0	0
13	Saskia Bullen	Left	Right	1	0
14	Sian Ruck	Left	Right	1	0
15	Sophie Devine	Right	Right	0	0
16	Suzie Bates	Right	Right	0	0
17	Victoria Lind	?	Right	?	0
Totals				6	0
As a % of Total Players				35.29%	0.00%
Total Right Handed %					41.18%
% of players unconfirmed					23.53%

South African Women's Squad - February 2011

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Cri-Zelda Brits	Right	Right	0	0
2	Alicia Smith	Right	Right	0	0
3	Angelique Sam Taai	Right	Right	0	0
4	Ashlyn Kilowan	Left	Left	0	1
5	Charlize van der Westhuisen	Left	Right	1	0
6	Chloe Leigh Tyron	Left	Right	1	0
7	Dane van Niekerk	Right	Right	0	0
8	Marcia Lestoalo	Right	Right	0	0
9	Mignon du Preez	?	Right	?	0
10	Shabnim Ismail	Right	Left	1	0
11	Shandre Fritz	Right	Right	0	0
12	Sunette Loubser	Right	Right	0	0
13	Susan Benade	Right	Right	0	0
14	Trisha Chetty	?	Right	?	0
Totals				3	1
As a % of Total Players				21.43%	7.14%
Total Right Handed %					57.14%
% of players unconfirmed					14.29%

English Women's Squad - February 2011

Number	Player	Throws / Bowls	Bats	X-Over	Left All
1	Charlotte Edwards	Right	Right	0	0
2	Katherine Brunt	Right	Right	0	0
3	Holly Colvin	Left	Left	0	1
4	Jenny Gunn	Right	Right	0	0
5	Lydia Greenway	Right	Left	1	0
6	Lauren Griffiths	?	Right	?	0
7	Isa Guha	Right	Right	0	0
8	Danielle Hazell	Right	Right	0	0
9	Laura Marsh	Right	Right	0	0
10	Beth Morgan	Right	Right	0	0
11	Susie Rowe	Right	Right	0	0
12	Claire Taylor	Right	Right	0	0
13	Fran Wilson	Right	Right	0	0
14	Danielle Wyatt	Right	Right	0	0
15	Caroline Atkins	Right	Right	0	0
16	Kate Cross	Right	Right	0	0
17	Heather Knight	Right	Right	0	0
Totals				1	1
As a % of Total Players				5.88%	5.88%
Total Right Handed %					82.36%
% of players unconfirmed					5.88%

APPENDIX C: BASEBALL DATA AND FIGURES

All Time Base Ball Stats .325 Plus Batting Average - November 2010

Rank	Player	Height	Career	At Bat	Batting Avg.	Batted	Threw	X Over	Left All
1	Ty Cobb *	6' 1"	1905–1928	11434	0.3664	Left	Right	1	0
2	Rogers Hornsby *	5' 11"	1915–1937	8173	0.3585	Right	Right	0	0
3	Joe Jackson	6' 1"	1908–1920	4981	0.3558	Left	Right	1	0
4	Lefty O'Doul	6' 0"	1919–1934	3264	0.3493	Left	Left	0	1
5	Ed Delahanty *	6' 1"	1888–1903	7505	0.3459	Right	Right	0	0
6	Tris Speaker *	5' 11"	1907–1928	10195	0.3447	Left	Left	0	1
7	Ted Williams *	6' 3"	1939–1960	7706	0.3444	Left	Right	1	0
8	Billy Hamilton *	5' 6"	1888–1901	6269	0.3443	Left	Right	1	0
9	Dan Brouthers *	6' 2"	1879–1904	6711	0.3421	Left	Left	0	1
10	Babe Ruth *	6' 2"	1914–1935	8399	0.3421	Left	Left	0	1
11	Dave Orr	5' 11"	1883–1890	3289	0.342	Right	Right	0	0
12	Harry Heilmann *	6' 1"	1914–1932	7787	0.3416	Right	Right	0	0
13	Pete Browning	6' 0"	1882–1894	4820	0.3415	Right	Right	0	0
14	Willie Keeler *	5' 4"	1892–1910	8591	0.3413	Left	Left	0	1
15	Bill Terry *	6' 1"	1923–1936	6428	0.3412	Left	Left	0	1
16	George Sisler *	5' 11"	1915–1930	8267	0.3401	Left	Left	0	1
17	Lou Gehrig *	6' 0"	1923–1939	8001	0.3401	Left	Left	0	1
18	Jake Stenzel	5' 10"	1890–1897	3024	0.3386	Right	Right	0	0
19	Jesse Burkett *	5' 8"	1890–1905	8421	0.3384	Left	Left	0	1
20	Tony Gwynn *	5' 11"	1982–2001	9288	0.3382	Left	Left	0	1
21	Nap Lajoie *	6' 1"	1896–1916	9589	0.3381	Right	Right	0	0
22	Riggs Stephenson	5' 10"	1921–1934	4508	0.3361	Right	Right	0	0
23	Al Simmons *	6' 11"	1924–1944	8759	0.3342	Right	Right	0	0
24	Cap Anson *	6' 0"	1871–1897	10281	0.3341	Right	Right	0	0
25	John McGraw *	5' 7"	1891–1906	3924	0.3336	Left	Right	1	0
26	Paul Waner *	5' 8"	1926–1945	9459	0.3332	Left	Left	0	1
27	Eddie Collins *	5' 9"	1906–1930	9949	0.3332	Left	Right	1	0
28	Mike Donlin	5' 9"	1899–1914	3854	0.3326	Left	Left	0	1
29	Albert Pujols	6' 3"	2001–	5662	0.3314	Right	Right	0	0
30	Ichiro Suzuki	5' 11"	2001–	6681	0.331	Left	Right	1	0
31	Stan Musial *	6' 0"	1941–1963	10972	0.3308	Left	Left	0	1
32	Sam Thompson *	6' 2"	1906–1922	5984	0.3307	Left	Left	0	1
33	Bill Lange	6' 1"	1893–1902	3195	0.3302	Right	Right	0	0
34	Heinie Manush *	6' 1"	1923–1937	7654	0.33	Left	Left	0	1
35	Wade Boggs *	6' 2"	1982–1999	9180	0.3279	Left	Right	1	0
36	Rod Carew *	6' 0"	1967–1985	9315	0.3278	Left	Right	1	0
37	Honus Wagner *	5' 11"	1897–1917	10430	0.3274	Right	Right	0	0
38	Joe Mauer	6' 5"	2004–	3049	0.327	Left	Right	1	0
39	Tip O'Neill	6' 1"	1883–1892	4255	0.3257	Right	Right	0	0
40	Bob Fothergill	5' 10"	1922–1933	3269	0.3255	Right	Right	0	0
41	Jimmie Foxx *	6' 0"	1925–1945	8134	0.3253	Right	Right	0	0
Totals								10	15
As a % of Total Players								24.39%	36.59%
Total Right Handed %									39.02%

All Time Baseball Home Run Leaders - November 2010

Rank	Player	Height	Home Runs	Bats	Throws	X Over	Left All
1	Barry Bonds	6' 1"	762	Left	Left	0	1
2	Hank Aaron+	6' 0"	755	Right	Right	0	0
3	Babe Ruth+	6' 2"	714	Left	Left	0	1
4	Willie Mays+	5' 10"	660	Right	Right	0	0
5	Ken Griffey (40)	5' 11"	630	Left	Left	0	1
6	Alex Rodriguez (34)	6' 3"	613	Right	Right	0	0
7	Sammy Sosa	6' 0"	609	Right	Right	0	0
8	Jim Thome (39)	6' 3"	589	Left	Right	1	0
9	Frank Robinson+	6' 1"	586	Right	Right	0	0
10	Mark McGwire	6' 5"	583	Right	Right	0	0
11	Harmon Killebrew+	6' 0"	573	Right	Right	0	0
12	Rafael Palmeiro	6' 0"	569	Left	Left	0	1
13	Reggie Jackson+	6' 0"	563	Left	Left	0	1
14	Manny Ramirez (38)	6' 0"	555	Right	Right	0	0
15	Mike Schmidt+	6' 2"	548	Right	Right	0	0
16	Mickey Mantle+	5' 11"	536	Both	Right	1	0
17	Jimmie Foxx+	6' 0"	534	Right	Right	0	0
18	Willie McCovey+	6' 4"	521	Left	Left	0	1
19	Frank Thomas	6' 3"	521	Right	Right	0	0
20	Ted Williams+	6' 3"	521	Left	Right	1	0
21	Ernie Banks+	6' 1"	512	Right	Right	0	0
22	Eddie Mathews+	6' 1"	512	Left	Right	1	0
23	Mel Ott+	5' 9"	511	Left	Right	1	0
24	Gary Sheffield	5' 11"	509	Right	Right	0	0
25	Eddie Murray+	6' 2"	504	Both	Right	1	0
26	Lou Gehrig+	6' 0"	493	Left	Left	0	1
27	Fred McGriff	6' 3"	493	Left	Left	0	1
28	Stan Musial+	6' 0"	475	Left	Left	0	1
29	Willie Stargell+	6' 2"	475	Left	Left	0	1
30	Carlos Delgado (38)	6' 3"	473	Left	Right	1	0
31	Dave Winfield+	6' 6"	465	Right	Right	0	0
32	Jose Canseco	6' 3"	462	Right	Right	0	0
33	Carl Yastrzemski+	5' 11"	452	Left	Right	1	0
34	Jeff Bagwell	6' 0"	449	Right	Right	0	0
35	Dave Kingman	6' 6"	442	Right	Right	0	0
36	Andre Dawson+	6' 3"	438	Right	Right	0	0
37	Vladimir Guerrero (35)	6' 3"	436	Right	Right	0	0
38	Chipper Jones (38)	6' 4"	436	Both	Right	1	0
39	Juan Gonzalez	6' 3"	434	Right	Right	0	0
40	Cal Ripken+	6' 4"	431	Right	Right	0	0
41	Mike Piazza	6' 3"	427	Right	Right	0	0
42	Billy Williams+	6' 1"	426	Left	Right	1	0
43	Jason Giambi (39)	6' 3"	415	Left	Right	1	0
44	Darrell Evans	6' 2"	414	Left	Right	1	0
45	Albert Pujols (30)	6' 3"	408	Right	Right	0	0

Rank	Player	Height	Home Runs	Bats	Throws	X Over	Left All
46	Andruw Jones (33)	6' 1"	407	Right	Right	0	0
47	Duke Snider+	6' 0"	407	Left	Right	1	0
48	Andres Galarraga	6' 3"	399	Right	Right	0	0
49	Al Kaline+	6' 1"	399	Right	Right	0	0
50	Dale Murphy	6' 4"	398	Right	Right	0	0
51	Joe Carter	6' 3"	396	Right	Right	0	0
52	Jim Edmonds (40)	6' 1"	393	Left	Left	0	1
53	Graig Nettles	6' 0"	390	Left	Right	1	0
54	Johnny Bench+	6' 1"	389	Right	Right	0	0
55	Dwight Evans	6' 2"	385	Right	Right	0	0
56	Harold Baines	6' 2"	384	Left	Left	0	1
57	Larry Walker	6' 2"	383	Left	Right	1	0
58	Frank Howard	6' 7"	382	Right	Right	0	0
59	Jim Rice+	6' 2"	382	Right	Right	0	0
60	Albert Belle	6' 1"	381	Right	Right	0	0
61	Orlando Cepeda+	6' 2"	379	Right	Right	0	0
62	Tony Perez+	6' 2"	379	Right	Right	0	0
63	Matt Williams	6' 1"	378	Right	Right	0	0
64	Norm Cash	6' 0"	377	Left	Left	0	1
65	Jeff Kent	6' 1"	377	Right	Right	0	0
66	Carlton Fisk+	6' 3"	376	Right	Right	0	0
67	Rocky Colavito	6' 3"	374	Right	Right	0	0
68	Gil Hodges	6' 1"	370	Right	Right	0	0
69	Ralph Kiner+	6' 2"	369	Right	Right	0	0
70	Paul Konerko (34)	6' 2"	365	Right	Right	0	0
71	Joe DiMaggio+	6' 2"	361	Right	Right	0	0
72	Gary Gaetti	6' 0"	360	Right	Right	0	0
73	Johnny Mize+	6' 2"	359	Left	Right	1	0
74	Yogi Berra+	5' 7"	358	Left	Right	1	0
75	Greg Vaughn	6' 0"	355	Right	Right	0	0
76	Adam Dunn (30)	6' 6"	354	Left	Right	1	0
77	Luis Gonzalez	6' 2"	354	Left	Right	1	0
78	Lee May	6' 3"	354	Right	Right	0	0
79	Ellis Burks	6' 2"	352	Right	Right	0	0
80	Dick Allen	5' 11"	351	Right	Right	0	0
81	Chili Davis	6' 3"	350	Both	Right	1	0
82	David Ortiz (34)	6' 4"	349	Left	Left	0	1
83	George Foster	6' 1"	348	Right	Right	0	0
84	Ron Santo	6' 0"	342	Right	Right	0	0
85	Jack Clark	6' 2"	340	Right	Right	0	0
86	Tino Martinez	6' 2"	339	Left	Right	1	0
87	Dave Parker	6' 5"	339	Left	Right	1	0
88	Boog Powell	6' 4"	339	Left	Right	1	0
89	Don Baylor	6' 1"	338	Right	Right	0	0
90	Joe Adcock	6' 4"	336	Right	Right	0	0
91	Darryl Strawberry	6' 6"	335	Left	Left	0	1

Rank	Player	Height	Home Runs	Bats	Throws	X Over	Left All
92	Todd Helton (36)	6' 2"	333	Left	Left	0	1
93	Moises Alou	6' 3"	332	Right	Right	0	0
94	Bobby Bonds	6' 1"	332	Right	Right	0	0
95	Hank Greenberg+	6' 3"	331	Right	Right	0	0
96	Carlos Lee (34)	6' 2"	331	Right	Right	0	0
97	Shawn Green	6' 4"	328	Left	Left	0	1
98	Mo Vaughn	6' 1"	328	Left	Right	1	0
99	Lance Berkman (34)	6' 1"	327	Both	Left	1	0
100	Jermaine Dye	6' 4"	325	Right	Right	0	0
101	Willie Horton	5' 11"	325	Right	Right	0	0
102	Gary Carter+	6' 2"	324	Right	Right	0	0
103	Lance Parrish	6' 3"	324	Right	Right	0	0
104	Ron Gant	5' 11"	321	Right	Right	0	0
105	Vinny Castilla	6' 1"	320	Right	Right	0	0
106	Troy Glaus (33)	6' 5"	320	Right	Right	0	0
107	Cecil Fielder	6' 3"	319	Right	Right	0	0
108	Roy Sievers	6' 1"	318	Right	Right	0	0
109	George Brett+	6' 0"	317	Left	Right	1	0
110	Ron Cey	5' 10"	316	Right	Right	0	0
111	Jeromy Burnitz	6' 0"	315	Left	Right	1	0
112	Reggie Smith	6' 0"	314	Both	Right	1	0
113	Alfonso Soriano (34)	6' 1"	314	Right	Right	0	0
114	Derrek Lee (34)	6' 5"	312	Right	Right	0	0
115	Jay Buhner	6' 3"	310	Right	Right	0	0
116	Edgar Martinez	6' 0"	309	Right	Right	0	0
117	Ivan Rodriguez (38)	5' 9"	309	Right	Right	0	0
118	Greg Luzinski	6' 1"	307	Right	Right	0	0
119	Al Simmons+	5' 11"	307	Right	Right	0	0
120	Fred Lynn	6' 1"	306	Left	Left	0	1
121	Richie Sexson	6' 6"	306	Right	Right	0	0
122	Ruben Sierra	6' 1"	306	Both	Right	1	0
123	David Justice	6' 3"	305	Left	Left	0	1
124	Reggie Sanders	6' 2"	305	Right	Right	0	0
125	Steve Finley	6' 2"	304	Left	Left	0	1
126	Scott Rolen (35)	6' 4"	303	Right	Right	0	0
127	Rogers Hornsby+	5' 11"	301	Right	Right	0	0
128	Chuck Klein+	6' 0"	300	Left	Right	1	0
129	Miguel Tejada (36)	5' 9"	300	Right	Right	0	0
130	Tim Salmon	6' 3"	299	Right	Right	0	0
131	Rickey Henderson+	5' 10"	297	Right	Left	1	0
132	Robin Ventura	6' 1"	294	Left	Right	1	0
133	Kent Hrbek	6' 4"	293	Left	Right	1	0
134	Rusty Staub	6' 2"	292	Left	Right	1	0
135	Craig Biggio	5' 11"	291	Right	Right	0	0
136	Jim Wynn	6' 3"	291	Right	Right	0	0
137	Magglio Ordonez (36)	6' 0"	289	Right	Right	0	0

Rank	Player	Height	Home Runs	Bats	Throws	X Over	Left All
138	Aramis Ramirez (32)	6' 1"	289	Right	Right	0	0
139	Del Ennis	6' 0"	288	Right	Right	0	0
140	Bob Johnson	6' 0"	288	Right	Right	0	0
141	Hank Sauer	6' 3"	288	Right	Right	0	0
142	Garret Anderson (38)	6' 3"	287	Left	Left	0	1
143	Bobby Bonilla	6' 3"	287	Both	Right	1	0
144	Brian Giles	6' 1"	287	Left	Left	0	1
145	Bernie Williams	6' 1"	287	Both	Right	1	0
146	Frank Thomas	6' 3"	286	Right	Right	0	0
147	Pat Burrell (33)	6' 4"	285	Right	Right	0	0
148	Will Clark	6' 2"	284	Left	Left	0	1
149	Eric Karros	6' 4"	284	Right	Right	0	0
150	Ken Boyer	6' 1"	282	Right	Right	0	0
151	Eric Davis	6' 2"	282	Right	Right	0	0
152	Ryne Sandberg+	6' 1"	282	Right	Right	0	0
153	Paul O'Neill	6' 4"	281	Left	Left	0	1
154	Carlos Beltran (33)	6' 1"	280	Both	Right	1	0
155	Ted Kluszewski	6' 2"	279	Left	Left	0	1
156	Adrian Beltre (31)	5' 11"	278	Right	Right	0	0
157	Ryan Klesko	6' 3"	278	Left	Left	0	1
158	Rudy York	6' 1"	277	Right	Right	0	0
159	Bobby Abreu (36)	6' 0"	276	Left	Right	1	0
160	Brian Downing	5' 10"	275	Right	Right	0	0
161	Roger Maris	6' 0"	275	Left	Right	1	0
162	Dean Palmer	6' 1"	275	Right	Right	0	0
163	Mark Teixeira (30)	6' 3"	275	Both	Right	1	0
164	Dante Bichette	6' 3"	274	Right	Right	0	0
165	Steve Garvey	5' 10"	272	Right	Right	0	0
166	Tom Brunansky	6' 4"	271	Right	Right	0	0
167	Raul Mondesi	5' 11"	271	Right	Right	0	0
168	George Scott	6' 1"	271	Right	Right	0	0
169	Mike Cameron (37)	6' 1"	269	Right	Right	0	0
170	Joe Morgan+	5' 10"	268	Left	Right	1	0
171	Brooks Robinson+	6' 1"	268	Right	Right	0	0
172	Gorman Thomas	6' 2"	268	Right	Right	0	0
173	George Hendrick	6' 3"	267	Right	Right	0	0
174	Vic Wertz	6' 0"	266	Left	Right	1	0
175	George Bell	6' 0"	265	Right	Right	0	0
176	Matt Stairs (42)	5' 9"	265	Left	Right	1	0
177	Bobby Thomson	6' 2"	264	Right	Right	0	0
178	Danny Tartabull	6' 1"	262	Right	Right	0	0
179	Jorge Posada (38)	6' 2"	261	Both	Right	1	0
180	Javy Lopez	6' 3"	260	Right	Right	0	0
181	Tim Wallach	6' 3"	260	Right	Right	0	0
182	Torii Hunter (34)	6' 2"	258	Right	Right	0	0
183	Bob Allison	6' 3"	256	Right	Right	0	0

Rank	Player	Height	Home Runs	Bats	Throws	X Over	Left All
184	Larry Parrish	6' 3"	256	Right	Right	0	0
185	Vada Pinson	5' 11"	256	Left	Left	0	1
186	Kirk Gibson	6' 3"	255	Left	Left	0	1
187	John Mayberry	6' 3"	255	Left	Left	0	1
188	John Olerud	6' 5"	255	Left	Left	0	1
189	Larry Doby+	6' 1"	253	Left	Right	1	0
190	Joe Gordon+	5' 10"	253	Right	Right	0	0
191	Ryan Howard (30)	6' 4"	253	Left	Left	0	1
192	Andre Thornton	6' 3"	253	Right	Right	0	0
193	Todd Zeile	6' 1"	253	Right	Right	0	0
194	Bret Boone	5' 10"	252	Right	Right	0	0
195	Bobby Murcer	5' 11"	252	Left	Right	1	0
196	Joe Torre	6' 2"	252	Right	Right	0	0
197	Tony Armas	6' 4"	251	Right	Right	0	0
198	Tony Clark	6' 8"	251	Both	Right	1	0
199	Cy Williams	6' 2"	251	Left	Left	0	1
200	Robin Yount+	6' 0"	251	Right	Right	0	0
Totals						47	32
As a % of all Players						23.50%	16.00%
Total % Right Hand Players							60.50%

American Women's Baseball League - 1943 to 1954

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
1	Abbott, Velma		Regina	SK	CANADA	Right	Right	0	0
2	Acker, Fredda	Thompson	Anderson	SC	US	?	?	?	?
3	Adams, Evelyn		Richmond	VA	US	Both	Right	1	0
4	Allard, Beatrice		Muskegon	MI	USA	Right	Right	0	0
5	Allen, Agnes		Larchwood	IA	US	Right	Right	0	0
6	Alspaugh, Melba		Wichita	KS	US	?	?	?	?
7	Alvarez, Isabel		Havana		CUBA	Left	Left	0	1
8	Alverson, Noella	Leduc	Graniteville	MA	US	Right	Right	0	0
9	Anderson, Marie				US	?	?	?	?
10	Anderson, Vivian	Sheriffs	Milwaukee	WI	US	Right	Right	0	0
11	Aplin, Lorraine	Borg	Minneapolis	MN	US	?	?	?	?
12	Applegren, Amy Irene		Peoria	IL	US	Right	Left	1	0
13	Armato, Ange		Rockford	IL	US	Right	Right	0	0
14	Armstrong, Beverly	Steuert	Maywood	NJ	US	Right	Right	0	0
15	Armstrong, Charlotte		Phoenix	AZ	US	Right	Right	0	0
16	Arnold, Lenna		Fort Wayne	IN	US	Right	Right	0	0
17	Arnold, Louise		Pawtucket	RI	US	Right	Right	0	0
18	Atkinson, Barbara	Tetro	Grand Rapids	MI	US	?	?	?	?
19	Austin, Helen	Westerman	Springfield	IL	US	?	?	?	?
20	Badini, Jane	Jacobs	Cuyahoga Falls	OH	US	Right	Right	0	0
21	Bajda, Dolores	Mueller	Chicago	IL	US	Right	Right	0	0
22	Baker, Mary		Regina	SK	CANADA	Right	Right	0	0
23	Baker, Mildred				US	?	?	?	?
24	Balchunas, Lois	Bellman	Chicago	IL	US	Right	Right	0	0
25	Ballingall, Chris		Ann Arbor	MI	US	Left	Right	1	0
26	Barbaze, Barbara		Toronto	ON	CANADA	?	?	?	?
27	Barker, Joan	Lequia	Grandville	MI	US	Right	Right	0	0
28	Barker, Lois		Chester	NJ	US	Right	Right	0	0
29	Barnett, Charlene		Elgin	IL	US	Right	Right	0	0
30	Barney, Edith		Bridgeport	CT	US	Right	Right	0	0
31	Barr, Doris		Winnipeg	MB	CANADA	Left	Left	0	1
32	Barringer, Patricia		New Carlisle	OH	US	Right	Right	0	0
33	Baskovich, Mary	Beschorner	Plano	IL	US	Right	Right	0	0
34	Batikis, Annastasia		Racine	WI	US	Left	Left	0	1
35	Battaglia, Fern		Chicago	IL	US	Right	Right	0	0
36	Baumgart, Jacqueline	Mattson	Waukegan	IL	US	Right	Right	0	0
37	Baumgartner, Mary		Fort Wayne	IN	US	Right	Right	0	0
38	Bays, Betty		Bisbee	AR	US	?	?	?	?
39	Beare, Kathryn		Syracuse	NY	US	Right	Right	0	0
40	Beck, Lottie		Jackson	MI	US	?	?	?	?
41	Becker, Donna		Kenosha	WI	US	Right	Right	0	0
42	Beckett, Christine	Jewett	Regina	SK	CANADA	Right	Right	0	0
43	Bell, Virginia		Muskegon	MI	US	Right	Right	0	0

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
44	Benner, Gertrude	Alderfer	Telford	PA	US	Right	Right	0	0
45	Bennett, Catherine		Regina	SK	CANADA	Right	Right	0	0
46	Berger, Margaret		Miami	FL	US	Right	Right	0	0
47	Bergmann, Erma		St. Louis	MO	US	Right	Right	0	0
48	Bevis, Muriel		W. Hampton Beach,L.I.,	NY	US	Left	Left	0	1
49	Bittner, Jayne		Lebanon	PA	US	Right	Right	0	0
50	Blair, Maybelle		Inglewood	CA	US	Right	Right	0	0
51	Blaski, Alice		Wallingford	CT	US	?	?	?	?
52	Blumetta, Kay		North Plainfield	NJ	US	Right	Right	0	0
53	Bookout, Phyllis		Fort Wayne	IN	US	Right	?	?	0
54	Born, Ruth		Bay City	MI	US	Right	Right	0	0
55	Bottazzi, Jeanette	Stocker	Allentown	PA	US	Right	Right	0	0
56	Boyce, Ethel		Vancouver	BC	CANADA	Right	Right	0	0
57	Bretting, Elizabeth	Fabac	Detroit	MI	US	Right	Right	0	0
58	Briggs, Rita		Ayer	MA	US	Right	Right	0	0
59	Briggs, Wilma		East Greenwich	RI	US	Left	Right	1	0
60	Brody, Leola		Chicago	IL	US	?	?	?	?
61	Brown, Barbara	Berger	Maywood	IL	US	Right	Right	0	0
62	Brown, Carol					?	?	?	?
63	Brown, Margaret	Danhauser	Racine	WI	US	?	?	?	?
64	Brown, Patricia		Winthrop	MA	US	Right	Right	0	0
65	Bryson, Marian		Los Angeles	CA	US	?	?	?	?
66	Buccor, Katherine					?	?	?	?
67	Bucior, Florence		Jackson	MI	US	?	?	?	?
68	Buckley, Jean		Boston	MA	US	Right	Right	0	0
69	Bunton, Lorraine					?	?	?	?
70	Burkovich, Shirley		Swissvale	PA	US	Right	Right	0	0
71	Buszka, Arlene		Detroit	MI	US	?	?	?	?
72	Caden, Mary Lou	Studnicka	Chicago	IL	US	Right	Right	0	0
73	Callow, Eleanor		Winnipeg	MB	CANADA	Left	Right	1	0
74	Cameron, Dorothy	Shinen	Los Angeles	CA	US	?	?	?	?
75	Campbell, Georgia		Syracuse	NY	US	?	?	?	?
76	Campbell, Janet					?	?	?	?
77	Campbell, Jean		Syracuse	NY	US	?	?	?	?
78	Campbell, Lillian	Shadic	Craryville	NY	US	Right	Right	0	0
79	Campbell, Ruth		Spartanburg	SC	US	?	?	?	?
80	Carey, Mary		Detroit	MI	US	Right	Right	0	0
81	Carlson, Phyllis		Chicago	IL	US	?	?	?	?
82	Carroll, Margaret	Jurgensmeier	Rockford	IL	US	Right	Right	0	0
83	Carteaux, Rita	Rehrer	Ft. Wayne	IN	US	?	?	?	?
84	Carver, Virginia		New Brighton	PA	US	?	?	?	?
85	Cato, Nancy	Mudge	Bridgeport	NY	US	Right	Right	0	0
86	Chapman, Dorothy	Maguire	LaGrange	OH	US	Right	Right	0	0
87	Chartier, Donna		Traverse City	MI	US	?	?	?	?

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
88	Chester, Bea		Brooklyn	NY	US	?	Right	?	0
89	Chiancola, Joan	Tysver	Gloucester	MA	US	?	?	?	?
90	Chiano, Clara		Dorchester	MA	US	?	?	?	?
91	Childress, Cartha	Doyle	Knoxville	TN	US	Right	Right	0	0
92	Childress, Thelma		Richmond	VA	US	?	?	?	?
93	Christ, Dorothy		LaPorte	IN	US	Right	Right	0	0
94	Cindric, Ann		Muse	PA	US	Right	Right	0	0
95	Cione, Jean		Rockford	IL	US	Right	Left	1	0
96	Clapp, Louise		Harrod	OH	US	?	?	?	?
97	Clark, Corinne		Yorkville	IL	US	Right	Right	0	0
98	Coben, Muriel		Saskatoon	SK	CANADA	?	Right	?	0
99	Colacito, Lucille		Denver	CO	US	Right	Right	0	0
100	Collins, Alice	Tognotti				?	?	?	?
101	Collins, Dorothy	Wiltse	Inglewood	CA	US	Right	Right	0	0
102	Cook, Clara		Elmira	NY	US	?	?	?	?
103	Cook, Donna		Muskegon	MI	US	Right	Left	1	0
104	Cook, Doris		Muskegon	MI	US	Right	Right	0	0
105	Cook, Dorothy		St. Catherine	ON	CANADA	?	?	?	?
106	Cooke, Penny	O'Brian	Edmonton	AB	CANADA	Right	Right	0	0
107	Cooper, Bonnie		Tremont	IL	US	?	?	?	?
108	Cornett, Betty Jane		Pittsburgh	PA	US	Right	Right	0	0
109	Corrigan, Rita		Cleveland	OH	US	?	?	?	?
110	Courtney, Patricia		Everett	MA	US	Right	Right	0	0
111	Cramer, Dorothy					?	?	?	?
112	Cramer, Peggy		Buchanan	MI	US	Right	Right	0	0
113	Crawley, Pauline		Phoenix	AZ	US	Right	Right	0	0
114	Crigler, Idona			CA	US	Right	Right	0	0
115	Crites, Shirley		Cape Girardeau	MO	US	Right	Right	0	0
116	Cryan, Marge	Villa	Montabello	CA	US	Right	Right	0	0
117	D'Angelo, Josephine		Chicago	IL	US	Right	Right	0	0
118	Dabbs, Sarah Mavis		St. Petersburg	FL	US	?	?	?	?
119	Daetweiler, Louella		Lynwood	CA	US	Right	Right	0	0
120	Dailey, Mary		Lexington	MA	US	Right	Right	0	0
121	Damaschke, Dorothy		Racine	WI	US	Right	Right	0	0
122	Dancer, Faye		Santa Monica	CA	US	Right	Right	0	0
123	Daniels, Audrey	Haine	Winnipeg	MB	CANADA	Right	Right	0	0
124	Danz, Shirley		Oak Park	IL	US	Right	Right	0	0
125	Davis, Gladys		Toronto	ON	CANADA	Right	Right	0	0
126	Davis, Lavonne	Paire	Los Angeles	CA	US	Right	Right	0	0
127	Davis, Marguerite	Jones	Regina	SK	CANADA	Right	Right	0	0
128	Dean, Eileen	Burmeister	Milwaukee	WI	US	Left	Right	1	0
129	Dearfield, Norma	Whitney	McKeesport	PA	US	Right	Right	0	0
130	DeCambra, Alice		Somerset	MA	US	Right	Right	0	0
131	Decker, Betty	Wanless	Springfield	IL	US	Right	Right	0	0
132	Deegan, Mildred		Brooklyn	NY	US	Right	Right	0	0

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
133	Deemer, Audrey		Steubenville	OH	US	?	?	?	?
134	Degner, Betty		Amboy	IL	US	?	?	?	?
135	Delaby, Irene		Villa Park	IL	US	?	?	?	?
136	Delmonico, Lee	Surkowski	Moose Jaw	SK	CANADA	Right	Right	0	0
137	DeMarco,					?	?	?	?
138	DeNoble, Jerre		Oakland	CA	US	?	?	?	?
139	Denton, Mona		Denver	CO	US	?	?	?	?
140	Deschaine, Alice	Pollitt	Lansing	MI	US	Right	Right	0	0
141	Deyotte, Anne	Surkowski	Moose Jaw	SK	CANADA	Right	Right	0	0
142	Dick, Pauline	Orvates				?	?	?	?
143	Dokish, Wanita		Van Meter	PA	US	Both	Right	1	0
144	Donahoe, Claire	Schillace	Melrose Park	IL	US	Right	Left	1	0
145	Dougal,		Muskegon	MI	US	?	?	?	?
146	Dowler, Jean	Lovell	Conneaut	OH	US	Right	Right	0	0
147	Downs, Dorothea		South Bend	IN	US	?	?	?	?
148	Doxey, Marilyn	Jones	Providence	RI	US	Right	Right	0	0
149	Doyle, Dorothy	Harrell	Los Angeles	CA	US	Right	Right	0	0
150	Dries, Dolores	Lee	Jersey City	NJ	US	Right	Right	0	0
151	Dummerth, Edna	Frank	St. Louis	MO	US	Right	Right	0	0
152	Dunn, Betty	Carveth	Edmonton	AB	CANADA	Right	Right	0	0
153	Dunn, Gertrude		Sharon Hill	PA	US	Right	Right	0	0
154	Dusanko, Julie	Sabo	Regina	SK	CANADA	Right	Right	0	0
155	Dwojak, Loretta		Chicago	IL	US	?	?	?	?
156	Earl, Elsie	Wingrove	Saskatoon	SK	CANADA	Right	Right	0	0
157	Earp, Mildred		West Fork	AR	US	Right	Right	0	0
158	Edwards, Geraldine		Cleveland	OH	US	Right	Right	0	0
159	Eisen, Thelma		Los Angeles	CA	US	Right	Right	0	0
160	Elliott, Gloria	Cordes	Staten Island	NY	US	Right	Right	0	0
161	Elrod, Mary	Holda	Mansfield	OH	US	Right	Right	0	0
162	Emerson, June		Moose Jaw	SK	CANADA	Left	Right	1	0
163	Emry, Elizabeth		Detroit	MI	US	Right	Right	0	0
164	English, Madeline		Everett	MA	US	Right	Right	0	0
165	Ewald, Esther		Niles	OH	US	Right	Right	0	0
166	Faralla, Lillian		San Pedro	CA	US	Right	Right	0	0
167	Faut, Jean	Faut	East Greenville	PA	US	Right	Right	0	0
168	Fenton, Peggy		Forest Park	IL	US	Left	Left	0	1
169	Ferguson, Fern					?	?	?	?
170	Ferguson, Sarah Jane	Sands	Orangeville	PA	US	Right	Right	0	0
171	Fernandez, Mirtha	Marrero	Havana		CUBA	Right	Right	0	0
172	Fischer, Alva Jo		San Antonio	TX	US	Right	Right	0	0
173	Flaherty, Mary		Ozone Park	NY	US	?	?	?	?
174	Florreich, Lois		Webster Grove	MO	US	Right	Right	0	0
175	Foss, Anita		Providence	RI	US	Right	Right	0	0
176	Foss, Betty	Weaver	Metropolis	IL	US	Left	Right	1	0
177	Fountain, Betty		Rome	GA	US	?	?	?	?

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178	Fox, Betty Jean	Peterson	Wyanet	IL	US	Right	Right	0	0
179	Fox, Helen	Nicol	Ardley	AB	CANADA	Right	Right	0	0
180	Francis, Betty		Chicago	IL	US	Right	Right	0	0
181	Franks, Hermina		Oconto	WI	US	Right	Right	0	0
182	Fricker, Marian	Wohlwender	Cincinnati	OH	US	Right	Right	0	0
183	Friend, Peggy		Topeka	KS	US	?	?	?	?
184	Fritz, Betty Jane		Oshkosh	WI	US	Right	Right	0	0
185	Gacioch, Rose		Wheeling	WV	US	Right	Right	0	0
186	Galdonik, Barbara		Kenosha	WI	US	?	?	?	?
187	Gallegos, Luisa		Havana		CUBA	?	?	?	?
188	Gascon, Eileen		Chicago	IL	US	Right	Right	0	0
189	Gates, Barbara		Downers Grove	IL	US	?	?	?	?
190	Gentry, Ruth	Middleton	Winnipeg	MB	CANADA	Right	Right	0	0
191	George, Jean		Regina	SK	CANADA	?	?	?	?
192	Georges, Anne		Columbus	OH	US	Right	Right	0	0
193	Gernert, Betty				US	?	?	?	?
194	Gilchrist, Jeanne		New Westminister	BC	CANADA	Right	Right	0	0
195	Gill, Josephine	Figlo	Milltown	NJ	US	?	Left	?	?
196	Glaser, Rose Mary		Cincinnati	OH	US	Right	Right	0	0
197	Golden, Thelma		Toronto	ON	CANADA	?	?	?	?
198	Goldsmith, Bethany		Elgin	IL	US	Right	Right	0	0
199	Gosbee, Ann		Essex	MA	US	?	?	?	?
200	Grant, Olga		Calgary	AB	CANADA	Left	Right	1	0
201	Green, Dorothy		Natick	MA	US	Right	Right	0	0
202	Griffin, Viola	Thompson	Greenville	SC	US	Left	Left	0	1
203	Gruno, Betty		Monroe	MI	US	?	?	?	?
204	Gutz, Julie		Storm Lake	IA	US	Right	Right	0	0
205	Habben, Carol		Midland Park	NJ	US	Right	Right	0	0
206	Haines, Martha		Covington	KY	US	?	?	?	?
207	Hamilton, Mary Lou	Graham	South Bend	IN	US	Right	Right	0	0
208	Hammond, Marlene		Kalamazoo	MI	US	?	?	?	?
209	Hanna, Marjorie		Calgary	AB	CANADA	?	?	?	?
210	Hardin, Julia		Mason	GA	US	?	?	?	?
211	Harding, Jean	Geissinger	Huntingdon	PA	US	Right	Right	0	0
212	Hargraves, Johanna	Hageman	Chicago	IL	US	Right	Right	0	0
213	Harmon, Annabelle	Lee	North Hollywood	CA	US	Both	Right	1	0
214	Harnett, Ann		Chicago	IL	US	Right	Right	0	0
215	Harney, Elise		Franklin	IL	US	Right	Right	0	0
216	Harrington, Doris					?	?	?	?
217	Hartman, Ruth	Kramer	Limekiln	PA	US	Right	Right	0	0
218	Hasham, Josephine		Waltham	MA	US	?	?	?	?
219	Havlish, Jean		St. Paul	MN	US	Right	Right	0	0
220	Hawton, June	Gilmore	Peoria	IL	US	?	?	?	?
221	Hay, Florence		Chicago	IL	US	?	?	?	?

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222	Haylett, Alice		Battle Creek	MI	US	Right	Right	0	0
223	Hayslip, Martha		Statesboro	GA	US	?	?	?	?
224	Headin, Irene					?	?	?	?
225	Heafner, Ruby		Gastonia	NC	US	Right	Right	0	0
226	Healy, Dorothy					?	?	?	?
227	Heverly, Ruth	Williams	Nescopeck	PA	US	Right	Right	0	0
228	Hickey, Lillian		Vancouver	BC	CANADA	Right	Right	0	0
229	Hickson, Irene		Chattanooga	TN	US	Right	Right	0	0
230	Hill, Betty	Luna	Los Angeles	CA	US	Right	Right	0	0
231	Hill, Pauline	Dennert	Hart	MI	US	Right	Right	0	0
232	Hines, Barbara					?	?	?	?
233	Hines, Mary	Weddle	Woodsfield	OH	US	Right	Right	0	0
234	Hlavaty, Lillian		Jessup	PA	US	?	?	?	?
235	Hockbein, Violet	Hackbarth	Watertown	WI	US	?	?	?	?
236	Hoffman, Barbara		Belleville	IL	US	Right	Right	0	0
237	Hoffman, Nadine					?	?	?	?
238	Holden, Beverly					?	?	?	?
239	Holderness, Joan		Kenosha	WI	US	Right	Right	0	0
240	Holle, Mabel		Jacksonville	IL	US	Right	Right	0	0
241	Holmes, Agnes	Zurkowski	Regina	SK	CANADA	Right	Right	0	0
242	Hood, Marjorie		Bell Buckle	TN	US	?	?	?	?
243	Hoover, Alice		Reading	PA	US	Right	Right	0	0
244	Horstman, Catherine		Minster	OH	US	Right	Right	0	0
245	Hosbein, Marion		Coloma	MI	US	Right	Right	0	0
246	Hosted, Ann	Garman	Avilla	IN	US	Right	Right	0	0
247	Hough, Geraldine	Guest	Flint	MI	US	?	?	?	?
248	Huff, Anna	Kunkel	Wescosville	PA	US	Left	Left	0	1
249	Hundeby, Thelma	Grambo	Domremy	SK	CANADA	Right	Right	0	0
250	Hunter, Dorothy		Winnipeg,	MB	CANADA	Right	Right	0	0
251	Hutchison, Anna Mae		Louisville	KY	US	Right	Right	0	0
252	Jackson, Lillian		Nashville	TN	US	Right	Right	0	0
253	James, Katie	Herring	Hedrick	OK	US	Right	Right	0	0
254	Jameson, Shirley		Maywood	IL	US	Right	Left	1	0
255	Jamieson, Janet		Minneapolis	MN	US	?	?	?	?
256	Janowski, Alice		Sherbrooke		CANADA	?	?	?	?
257	Janowsky, Loretta		Griffith	IN	US	?	?	?	?
258	Janssen, Frances		Remington	IN	US	Right	Right	0	0
259	Jaykoski, Joan		Menasha	WI	US	?	?	?	?
260	Jenkins, Marilyn		Grand Rapids	MI	US	Right	Right	0	0
261	Jinright, Migdalia	Perez	Havana		CUBA	Right	Right	0	0
262	Jochum, Betsy		Cincinnati	OH	US	Right	Right	0	0
263	Jogerst, Donna		Freeport	IL	US	?	?	?	?
264	Johnson, Esther		Georgetown	SC	US	?	?	?	?
265	Jones, Doris		Sellersburg	IN	US	Right	Right	0	0
266	Jones, Margaret	Russo	Milton	NY	US	Right	Right	0	0

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267	Junor, Daisy		Regina	SK	CANADA	Right	Right	0	0
268	Jurasinski, Amy	Shuman	Mohrville	PA	US	?	?	?	?
269	Kabick, Josephine		Detroit	MI	US	Right	Right	0	0
270	Kamenshek, Dorothy		Norwood	OH	US	Left	Left	0	1
271	Kaufman, Joan		Winnebago	IL	US	Right	Right	0	0
272	Kazmierczak, Marie		South Milwaukee	WI	US	Right	Right	0	0
273	Keagle, Merle		Tolleson	AZ	US	Right	Right	0	0
274	Keating, Edythe	Perlick	Chicago	IL	US	Right	Right	0	0
275	Keller, Rita		Kalamazoo	MI	US	?	?	?	?
276	Kelley, Lillian	DeCambra	Somerset	MA	US	Right	Right	0	0
277	Kelley, Marie	Mansfield	Jamaica Plain	MA	US	Right	Right	0	0
278	Kellogg, Vivian		Jackson	MI	US	Right	Right	0	0
279	Kelly, Esther	Lyman	Peoria	IL	US	?	?	?	?
280	Kemmerer, Beatrice		Center Valley	PA	US	Right	Right	0	0
281	Keough, Lavina		Walworth	WI	US	?	?	?	?
282	Keppel, Evelyn					?	?	?	?
283	Kerrar, Adeline		Milwaukee	WI	US	Both	Right	1	0
284	Kerrigan, Marguerite		LaCrescent	MN	US	Right	Right	0	0
285	Kerwin, Irene		Peoria	IL	US	Right	Right	0	0
286	Key, Dorothy	Ferguson	Winnipeg	MB	CANADA	Right	Right	0	0
287	Keyes, Erma		Frazer	PA	US	Right	Right	0	0
288	Kidd, Glenna Sue		Choctaw	AR	US	Right	Right	0	0
289	Kiely, Helen	Walulik	Plainfield	NJ	US	Right	Right	0	0
290	King, Nancy		Chicago	IL	US	?	?	?	?
291	Kinney, Ysora	Castillo	Havana		CUBA	Right	Right	0	0
292	Klosowski, Dolores		Detroit	MI	US	Left	Left	0	1
293	Klosowski, Theresa					?	?	?	?
294	Klupping, Dorothy	Ortman	Maywood	IL	US	?	?	?	?
295	Knebl, Joan	Berger	Garfield	NJ	US	Right	Right	0	0
296	Kobuszewski, Theresa		Wyandotte	MI	US	Right	Right	0	0
297	Koehn, Phyllis		Madison	WI	US	Right	Right	0	0
298	Kolanko, Mary Louise		Weirton	WV	US	Left	Left	0	1
299	Konalchik, Helen				US	?	?	?	?
300	Konwinski, Dolly	Niemiec	Chicago	IL	US	Right	Right	0	0
301	Kotil, Arlene		Chicago	IL	US	Left	Left	0	1
302	Kotowicz, Irene		Chicago	IL	US	Right	Right	0	0
303	Krick, Jaynie		Auburn	IN	US	Both	Right	1	0
304	Kruckel, Marie		Bronx	NY	US	Right	Right	0	0
305	Kunkel, Karen	Violetta	Negaunee	MI	US	Left	Right	1	0
306	Kurys, Sophie		Flint	MI	US	Right	Right	0	0
307	Kustra, Mary	Shastal	Winnipeg	MB	CANADA	Right	Right	0	0
308	LaCamera, Helen	Ketola	Quincy	MA	US	Right	Right	0	0
309	Ladd, Jean		Praire View	IL		?	?	?	?
310	Lafser, Audrey	Kissel	St. Louis	MO	US	Right	Right	0	0
311	Lake, Joyce				US	?	?	?	?

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312	Lang, Margie		Cincinnati	OH	US	Right	Right	0	0
313	Lawson, Mary		Norfolk	VA	US	?	?	?	?
314	Leach, Beverly					?	?	?	?
315	LeClair, Meryle	Fitzgerald	Rapid City	SD	US	?	?	?	?
316	Lee, Laurie Ann		Racine	WI	US	Right	Right	0	0
317	Lenard, Josephine		Chicago	IL	US	Right	Right	0	0
318	Lesko, Jeneane	DesCombes	Lakeview	OH	US	Left	Left	0	1
319	Lessing, Ruth		San Antonio	TX	US	Right	Right	0	0
320	Lester, Mary Louise		Nashville	TN	US	?	?	?	?
321	Liebrich, Barbara		Cranston	RI	US	Right	Right	0	0
322	Linehan, Rhoda	Leonard	Somerset	MA	US	Left	Right	1	0
323	Lionikas, Kay		New Brunswick	NJ	US	?	?	?	?
324	Little, Alta		Muskegon	MI	US	Right	Right	0	0
325	Little, Olive		Poplar Pt.	MB	CANADA	Right	Right	0	0
326	Lobrovich, Claire		Campbell	CA	US	Right	Right	0	0
327	Lockhart, Eileen	Albright	Roanoke Area	VI	US	Right	Left	1	0
328	Lonetto, Sarah		Detroit	MI	US	Both	Right	1	0
329	Lovett, Frances		Racine	WI	US	?	?	?	?
330	Luckey, Lillian		Niles	MI	US	Right	Right	0	0
331	Luhtala, Shirley		Dekalb	IL	US	?	?	?	?
332	Luker, Norma	Taylor	Huntington	IN	US	Right	Right	0	0
333	Mahon, Elizabeth B		Greenville	SC	US	Right	Right	0	0
334	Mahoney, Marie		Houston	TX	US	Right	Right	0	0
335	Mandella, Lenora		McKeesport	PA	US	Right	Right	0	0
336	Manina, Virginia	Ventura	Garfield	NJ	US	Right	Right	0	0
337	Manning, Martha	Rommelaere	Edmonton	AB	CANADA	Right	Right	0	0
338	Marks, Gloria		San Diego	CA	US	Right	Right	0	0
339	Marlowe, Jean	Malanowski	Scranton	PA	US	Right	Right	0	0
340	Marsh, Doris		Elkhart	IN	US	?	?	?	?
341	Marsh, Mary	Butcher	Berne	IN	US	Right	Right	0	0
342	Marshall, Theda		Denver	CO	US	Right	Right	0	0
343	Martin, Pauline		Columbus	OH	US	?	?	?	?
344	Martz, Ruby	Knezovich	Regina	SK	CANADA	Right	Right	0	0
345	Mason, Pat		Cedar Rapids	IA	US	?	?	?	?
346	Mason, Ruth		Moosjaw	SK	CANADA	?	?	?	?
347	Matuzewski, Joan		Milwaukee	WI	US	?	?	?	?
348	Maxwell, Bernadine		Topeka	KS	US	?	?	?	?
349	Maxwell, Margaret	Callaghan	Vancouver	BC	CANADA	Right	Right	0	0
350	Mayer, Alice					?	?	?	?
351	Mayer, Charlene	Pryer	Watsonville	CA	US	Right	Right	0	0
352	McAuley, Mildred	Warwick	Regina	SK	CANADA	Right	Right	0	0
353	McCarty, Mary	Jennings	Flint	MI	US	Right	Right	0	0
354	McCloskey, Helen					?	?	?	?
355	McComb, Joanne		Avonmore	PA	US	Right	Right	0	0
356	McCormick, Judy		Chicago	IL	US	?	?	?	?

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357	McCoy, Joyce	Barnes	Hutchinson	KS	US	Right	Right	0	0
358	McCreary, Ethel		Regina	SK	CANADA	?	?	?	?
359	McCulloch, Colleen	Smith	Vancouver	BC	CANADA	Right	Right	0	0
360	McDaniel, Kay	Heim	Edmonton	AB	CANADA	Right	Right	0	0
361	McFarlane, Annebelle	Thompson	Edmonton	AB	CANADA	?	?	?	?
362	McFaul, Gene	George	Regina	SK	CANADA	Right	Right	0	0
363	McKenna, Betty		Lisbon	OH	US	Right	Right	0	0
364	McNaughton, Alice	Hohlmayer	Springfield	OH	US	Left	Left	0	1
365	Meacham, Mildred		Charlotte	NC	US	Right	Right	0	0
366	Meier, Naomi		Ft. Wayne	IN	US	Right	Right	0	0
367	Melin, Berith		Rockford	IL	US	?	?	?	?
368	Messinger, Joyce		Lansing	MI	US	?	?	?	?
369	Metesh, Bernice		Joliet	IL	US	Right	Right	0	0
370	Metrolis, Norma		Lake Worth	FL	US	Right	Right	0	0
371	Meyer, Alice		Chicago	IL	US	?	?	?	?
372	Mickelsen, Darlene		Kenosha	WI	US	Right	Right	0	0
373	Miller, Pauline					?	?	?	?
374	Miller, Ruth		Jacksonville	IL	US	?	?	?	?
375	Moczynski, Betty		Milwaukee	WI	US	Right	Right	0	0
376	Moellering, Rita	Meyer	Florissant	MO	US	Right	Right	0	0
377	Moffet, Jane		Pittman	NJ	US	Right	Right	0	0
378	Montalbano, Rose		Staten Island	NY	US	?	?	?	?
379	Montgomery, Dorothy		Chattanooga	TN	US	Left	Right	1	0
380	Moon, Dorothy		Belleville	MI	US	?	?	?	?
381	Mooney, Georgette	Vincent	Fall River	MA	US	Right	Right	0	0
382	Moore, Dolores		Chicago	IL	US	Right	Right	0	0
383	Moore, Mary		Lincoln Park	MI	US	Right	Right	0	0
384	Moraty, Mary		St. Charles	MO	US	?	?	?	?
385	Moroz, Evelyn	Wawryshyn	Tyndall	MB	CANADA	Right	Right	0	0
386	Morris, Carolyn		Phoenix	AZ	US	Right	Right	0	0
387	Morrison, Esther	Gamberdella	Chicago	IL	US	Right	Right	0	0
388	Moss, Glenora					?	?	?	?
389	Mueller, Dorothy		Cheviot	OH	US	Right	Right	0	0
390	Mullins, Doreen Betty	Petryna	Regina	SK	CANADA	Right	Right	0	0
391	Murk, Janet	Jacobs	Englewood	NJ	US	Both	Right	1	0
392	Murray, Margaret		Joliet	IL	US	?	?	?	?
393	Murray, Rella	Swamp	Appleton	WI	US	?	?	?	?
394	Mystrysak, Vivian		Pittsburgh	PA	US	?	?	?	?
395	Neal, Doris		Lincoln Park	MI	US	?	?	?	?
396	Nearing, Merna		Milwaukee	WI	US	Right	Right	0	0
397	Nelson, Mary		Angola	IN	US	Right	Right	0	0
398	Noga, Arleene	Johnson	Ogema	SK	CANADA	Right	Right	0	0
399	Nordquist, Helen		Malden	MA	US	Right	Right	0	0
400	Normine, Cynthia		Everett	MI	US	?	?	?	?
401	Norris, Donna		Culver City	CA	US	?	?	?	?

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
402	Nossek, Marjorie					?	?	?	?
403	O'Brien, Eileen		Chicago	IL	US	Right	Right	0	0
404	O'Connor, Patricia		Kenosha	WI	US	?	?	?	?
405	O'Dowd, Anna Mae		Chicago	IL	US	Right	Right	0	0
406	O'Hara, Janice		Beardstown	IL	US	Right	Right	0	0
407	O'Meara, Mary	Froning	Minster	OH	US	Right	Right	0	0
408	Ogden, Joanne		Johnson City	NY	US	Right	Right	0	0
409	Olinger, Marilyn		Columbus	OH	US	Right	Right	0	0
410	Overleese, M.D., Joanne		San Diego	CA	US	?	?	?	?
411	Ozburn, Dolly	Vanderlip	Charlotte	NC	US	Right	Right	0	0
412	Palermo, Toni		Forest Park	IL	US	?	?	?	?
413	Palesh, Shirley		Wausau	WI	US	Right	Right	0	0
414	Panos, Vickie		Moosejaw	SA	CANADA	?	?	?	?
415	Papesh, Virginia	Tezak	Joliet	IL	US	Right	Right	0	0
416	Parker, Dorothy	Naum	Dearborn	MI	US	Right	Right	0	0
417	Parrott, Beatrice	Arbour	Somerset	MA	US	Right	Right	0	0
418	Payne, Barbara		Shreveport	LA	US	Right	Right	0	0
419	Pechulis, Katherine		Uxbridge	MA	US	?	?	?	?
420	Peppas, June		Ft Wayne	IN	US	Left	Left	0	1
421	Perkin, Janet	Anderson	Bethune	SK	CANADA	?	?	?	?
422	Perkins, Joy					?	?	?	?
423	Peters, Marjorie		Greenfield	WI	US	Right	Right	0	0
424	Petras, Ernestine		Haskell	NJ	US	Right	Right	0	0
425	Petrovic, Anna	Meyer	Aurora	IN	US	Right	Right	0	0
426	Phillips, Nalda	Bird	Los Angeles	CA	US	Right	Left	1	0
427	Pieper, Marjorie		Ann Arbor	MI	US	Right	Right	0	0
428	Pirok, Pauline		Chicago	IL	US	Right	Right	0	0
429	Piskula, Grace		Milwaukee	WI	US	Right	Right	0	0
430	Podolski, Bertha					Right	Right	0	0
431	Powell, Rose	Folder	Springfield	IL	US	Right	Right	0	0
432	Pratt, Mary		Quincy	MA	US	Left	Left	0	1
433	Price, Ferne		Terre Haute	IN	US	?	?	?	?
434	Proefrock, Ellen	Ahrndt	Racine	WI	US	Right	Right	0	0
435	Purdham, Mary Ellen	Kimball	Kalamazoo	MI	US	?	?	?	?
436	Randall, Maxine	Kline	North Adams	MI	US	Right	Right	0	0
437	Rapp, Elizabeth	Farrow	Peoria	IL	US	Right	Right	0	0
438	Redman, Magdalen		Waupun	WI	US	Right	Right	0	0
439	Reeser, Esther Anne	Hershey	Gap	PA	US	Right	Right	0	0
440	Reeser, Sara		Columbus	OH	US	Left	?	?	?
441	Reid, Dorice		Superior	WI	US	Right	Right	0	0
442	Reynolds, Mary		Gastonia	NC	US	Right	Right	0	0
443	Richard, Ruth		Sellersville	PA	US	Left	Right	1	0
444	Richards, Lucille	Stone	Roxbury	MA	US	Right	Right	0	0
445	Richardson, Marie		Rumford	ME	US	?	?	?	?
446	Ricketts, Joyce		Oquawka	IL	US	Left	Right	1	0

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
447	Rinaldi, Rosaline		Irvington	NJ	US	?	?	?	?
448	Rini, Mary		Detroit	MI	US	?	?	?	?
449	Rios, Georgiana		Havana		CUBA	Right	?	?	0
450	Risinger, Earlene		Hess	OK	US	Right	Right	0	0
451	Roach, Marian		Chicago	IL	US	?	?	?	?
452	Roark, Dorothy	Kovalchick	Sagamore	PA	US	Right	Right	0	0
453	Roberson, Beverly	Dustrude	Beloit, Wi		US	Right	?	?	0
454	Roberts, Donna	Stageman	Randolf	MT	US	Right	Right	0	0
455	Rockwell, Nancy	DeShone	Elkhart	IN	US	Left	Left	0	1
456	Rogato, Grace		Lynn	MA	US	?	?	?	?
457	Rogers, Gloria	McCloskey	Edina	MO	US	?	?	?	?
458	Rohrer, Kay		Los Angeles	CA	US	Right	Right	0	0
459	Romatowski, Jenny		Wyandotte	MI	US	Right	Right	0	0
460	Ross, Lucella	MacLean	Lloydminster	AB	CANADA	Right	Right	0	0
461	Roth, Eilaine		Michigan City	IN	US	Right	Right	0	0
462	Roth, Elaine		Michigan City	IN	US	Right	Right	0	0
463	Rotvig, Barbara		Duluth	MN	US	Right	Right	0	0
464	Rountree, Mary		Miami	FL	US	Right	Right	0	0
465	Roy, Patricia		Harlan	IN	US	Right	Right	0	0
466	Roylance, Juanita		Miami	FL	US	?	?	?	?
467	Ruiz, Gloria		Havana		CUBA	?	?	?	?
468	Rumsey, Janet		Greensburg	IN	US	Right	Right	0	0
469	Russell, Betty		Tonto Basin	AZ	US	?	?	?	?
470	Rusynyk, Betty Jean	McFadden	Savanna	IL	US	Right	Right	0	0
471	Sachetti, Toni					?	?	?	?
472	Sagrati, Ruth	Matlack	Cromwells Heights	PA	US	Left	Left	0	1
473	Salisbury, Shirley		Goshen	IN	US	?	?	?	?
474	Sams, Doris		Knoxville	TN	US	Right	Right	0	0
475	Sandiford, Helen	Nelson	Toronto	ON	CANADA	Right	Right	0	0
476	Sanvitas, Irene	Ruhnke	Chicago	IL	US	Right	Right	0	0
477	Satterfield, Doris		North Belmont	NC	US	Right	Right	0	0
478	Sauer, Louise	Erickson	Arcadia	WI	US	?	?	?	?
479	Savage, Jacquelyn	Kelley	Lansing	MI	US	Right	Right	0	0
480	Schachter, Blanche		Brooklyn	NY	US	Right	Right	0	0
481	Schallern, Ellen		Miami	FL	US	?	?	?	?
482	Schatz, Joan		Winnipeg	MB	CANADA	Right	Right	0	0
483	Scheer, Edna		Cedarburg	WI	US	Right	Right	0	0
484	Schenck, Audrey		Chicago	IL	US	?	?	?	?
485	Schick, Yolande	Teillet	St. Vital	MB	CANADA	Right	Right	0	0
486	Schillace, Clara				US	?	?	?	?
487	Schmidt, Marilyn		Hollywood	CA	US	?	?	?	?
488	Schofield, June		Toronto	ON	CANADA	Right	Right	0	0
489	Schroeder, Dorothy		Sadorus	IL	US	Right	Right	0	0
490	Schuller, Betty	Bayse	Bisbee	AZ	US	?	?	?	?

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
491	Schulze, Shirley		Chicago	IL	US	?	?	?	?
492	Schweigerdt, Gloria		Chicago	IL	US	?	?	?	?
493	Scott, Patricia		Burlington	KY	US	Right	Right	0	0
494	Sears, Janet	Wiley	South Bend	IN	US	Right	Right	0	0
495	Seitzinger, Audrey	Bleiler	Philadelphia	PA	US	Right	Right	0	0
496	Shafranis, Geraldine		Chicago	IL	US	?	?	?	?
497	Sheehan, Mary		Charlestown	MA	US	?	?	?	?
498	Sheffield, Lois		Wellington	OH	US	?	?	?	?
499	Shively, Twila		Chicago	IL	US	Right	Right	0	0
500	Shollenberger, Fern		Hamburg	PA	US	Right	Right	0	0
501	Sieg, Norma					?	?	?	?
502	Silvestri, Margaret	Holgerson	Mobile	AL	US	Right	Right	0	0
503	Simmons, Maxine	Drinkwater	Searsmont	ME	US	Right	Right	0	0
504	Simpson, Louise		Charlotte	NC	US	?	?	?	?
505	Sindelar, Joan		Chicago	IL	US	Right	Right	0	0
506	Skokan, Josephine		Chicago	IL	US	?	?	?	?
507	Sloan, Frances		Miami	FL	US	?	?	?	?
508	Smith, Charlotte		Chattanooga	TN	US	?	?	?	?
509	Smith, Dorothy	Sarazen				?	?	?	?
510	Smith, Hazel		Chicago	IL	US	?	?	?	?
511	Smith, Helen		Richmond	VA	US	Right	Right	0	0
512	Smith, Jean		Harbor Springs	MI	US	Right	Right	0	0
513	Smith, Marjean		Kalamazoo	MI	US	?	?	?	?
514	Sommer, Shirley	Kleinhans	Sheboygan Falls	WI	US	?	?	?	?
515	Sopkovic, Kay		Youngstown	OH	US	Right	Right	0	0
516	Sowers, Barbara		Livonia	MI	US	Right	Right	0	0
517	St. Aubin, Helen	Callaghan	Vancouver	BC	CANADA	Left	Left	0	1
518	Stahley, Adele		Schecksville	PA	US	Right	Right	0	0
519	Stanton, Marion	Watson	Chatham	ON	CANADA	Right	Left	1	0
520	Steele, Joyce		Wyalusing	PA	US	Both	Left	1	0
521	Stefani, Margaret		Detroit	MI	US	Right	Right	0	0
522	Steffes, Helen	Filarski	Harper Woods	MI	US	Right	Right	0	0
523	Stephens, Ruby		Clearwater	FL	US	Right	Right	0	0
524	Stevens, Lorraine	Fisher	Detroit	MI	US	Right	Right	0	0
525	Stevenson, Emily		Champaign	IL	US	?	?	?	?
526	Stevenson, Rosemary		Stalwart	MI	US	Left	Right	1	0
527	Stoll, Jane		West Point	PA	US	Right	Right	0	0
528	Stolze, Dorothy		Alameda	CA	US	Right	Right	0	0
529	Stopper, Geraldine	Bureker	Portland	OR	US	Right	Right	0	0
530	Stovroff, Shirley		Madison	IL	US	Right	Right	0	0
531	Straka, Sylvia	Wronski	Milwaukee	WI	US	Right	Right	0	0
532	Surman, Ruby	Stoyovich	Negaunee	MI	US	?	?	?	?
533	Sutherland, Shirley		Rockford	IL	US	?	?	?	?
534	Swanagon, Mary Lou		Sikeston	MO	US	Right	Right	0	0
535	Taylor, Eunice		Kenosha	WI	US	Right	Right	0	0

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
536	Taylor, Mary		Long Beach	CA	US	?	?	?	?
537	Taylor, Norma	Berger	Maywood	IL	US	Right	Right	0	0
538	Terkowski, Georgia		Passaic	N J	US	Right	Right	0	0
539	Terry, Betty		Long Beach	CA	US	?	?	?	?
540	Tesseine, Marguerite	Pearson	Pittsburgh	PA	US	Right	Right	0	0
541	Tetzlaff, Doris		Watertown	WI	US	Right	Right	0	0
542	Thomas, Aldine	Calacurcio	Rockford	IL	US	Right	Right	0	0
543	Thomas, Erla					?	?	?	?
544	Thomas, Helen		Raiford	FL	US	?	?	?	?
545	Thomas, Mava Lee		Ocala	FL	US	Both	Right	1	0
546	Thompson, Barbara		Rockford	IL	US	Right	Left	1	0
547	Thompson, Beverly	Stuhr	Rock Island	IL	US	Left	Right	1	0
548	Thompson, Mary		Greenville	SC	US	?	?	?	?
549	Tipton, Gloria		Dayton	OH	US	?	?	?	?
550	Torrison, Lorraine		Minneapolis	MI	US	?	?	?	?
551	Towers, Ina Dell		Belmont	MI	US	?	?	?	?
552	Trezza, Betty		Brooklyn	NY	US	Right	Right	0	0
553	Tronnier, Ellen		Cudahy	WI	US	Right	Right	0	0
554	Tucker, Elizabeth		Detroit	MI	US	Right	Right	0	0
555	Uselmann, Therese	McKinley	Chicago	IL	US	Right	Right	0	0
556	Van Sant, Helene	Machado	Venice	CA	US	Right	Right	0	0
557	Visich, Gene	Travis	Mount Vernon	NY	US	Right	Both	1	0
558	Volkert, Beverly	Hatzell	Redkey	IN	US	Right	Right	0	0
559	Volkov, Kay	Shinen	Los Angeles	CA	US	Right	Right	0	0
560	Vonderau, Kathryn		Fort Wayne	IN	US	Right	Right	0	0
561	Voyce, Inez		Rathbun	IA	US	Left	Left	0	1
562	Vukovich, Frances		Smithdale	PA	US	Right	Right	0	0
563	Wagner, Audrey		Bensenville	IL	US	Right	Right	0	0
564	Wagoner, Betty		Lebanon	MO	US	Left	Left	0	1
565	Walker, Doris	Nelson	Los Angeles	CA	US	Right	Right	0	0
566	Walker, Martha					?	?	?	?
567	Walker, Nellie Jean					?	?	?	?
568	Walmsley, Thelma		Sudbury	ON	CANADA	Right	Right	0	0
569	Walter, Mary		Gastonia	NC	US	?	?	?	?
570	Warfel, Betty		Enola	PA	US	Right	Right	0	0
571	Warner, Eleanor	Moore	Long Park	IL	US	Right	Right	0	0
572	Warren, Nancy		Springfield	OH	US	Right	Right	0	0
573	Weaver, Jean		Metropolis	IL	US	Right	Right	0	0
574	Weaver, Joanne		Metropolis	IL	US	Right	Right	0	0
575	Webb, Kay	Malach	Knoxville	TN	US	Right	Right	0	0
576	Weeks, Rossey		Jacksonville	FL	US	Right	Right	0	0
577	Wegman, Marie		Cincinnati	OH	US	Right	Right	0	0
578	Weierman, Shirley Ann		Lima	OH	US	Right	Right	0	0
579	Weise, Gertrude	Ganote	Louisville	KY	US	Left	Left	0	1
580	Weiss, Elma	Steck	Columbus	OH	US	Right	Right	0	0

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
581	Weitzman, Violet	Schmidt	Ft. Wayne	IN	US	Right	Right	0	0
582	Wenzell, Margaret		Detroit	MI	US	Right	Right	0	0
583	Westerman, Joyce	Hill	Kenosha	WI	US	Left	Right	1	0
584	Whalen, Dorothy		Kew Gardens	NY	US	Right	Right	0	0
585	White, Delores	Brumfield	Prichard	AL	US	Right	Right	0	0
586	White, Dorothy	Sawyer	Buffalo	NY	US	?	?	?	?
587	Whiteman, Vera		Battle Creek	MI	US	?	?	?	?
588	Whiting, Betty		Ida	MI	US	Right	Right	0	0
589	Wicken, Elizabeth (Betty)	Berthiaume	Regina	SK	CANADA	Left	Left	0	1
590	Wigiser, Margaret		Brooklyn	NY	US	Right	Right	0	0
591	Wildfong, Hazel	Measner	Holdfast	SK	CANADA	?	?	?	?
592	Williams, Wilma		Thomasville	MO	US	?	?	?	?
593	Wilson, Dolores		Stockton	CA	US	?	?	?	?
594	Wilson, Jean		Rochester	NY	US	?	?	?	?
595	Wind, Dorothy		Chicago	IL	US	?	?	?	?
596	Winkler, Alma		Whitaker	PA	US	?	?	?	?
597	Winn, Laverne					?	?	?	?
598	Winter, Joanne		Maywood	IL	US	Right	Right	0	0
599	Wirth, Senaida	Shoo Shoo	Tampa	FL	US	Right	Right	0	0
600	Wise, Phyllis	Baker	Marshall	MI	US	Right	Right	0	0
601	Wisham, Mary	Nesbitt	Chattanooga	TN	US	Left	Left	0	1
602	Wisniewski, Connie		Detroit	MI	US	Left	Right	1	0
603	Witiuk, Doris	Shero	Winnipeg	MB	CANADA	Right	Right	0	0
604	Witzel, Norene	Arnold	Oregon	IL	US	Right	Right	0	0
605	Wolf, Eleanor	Dapkus	Chicago	IL	US	Right	Right	0	0
606	Wolmesley, Thelma				US	?	?	?	?
607	Wood, Mary		Lakewood	OH	US	?	?	?	?
608	Wood, Trois		Lima	OH	US	?	?	?	?
609	Woody, Patty	Burton				?	?	?	?
610	Wright, Sadie		Greensboro	NC	US	?	?	?	?
611	Wuethrich, Lorraine		Milwaukee	WI	US	?	?	?	?
612	Wyatt, Helen	Waddell	Lemoyne	PA	US	?	?	?	?
613	Yahr, Betty		Ann Arbor	MI	US	Left	Right	1	0
614	Young, Barbara	Parks	Brookline	MA	US	Right	Right	0	0
615	Young, Janet		Hagerstown	MI	US	?	?	?	?
616	Youngberg, Renae		Waukegan	IL	US	Right	Right	0	0
617	Youngen, Lois		Westfield Center	OH	US	Right	Right	0	0
618	Zale, Philomena	Gianfrancisco	Chicago	IL	US	Left	Right	1	0
619	Zaph, Clara		Cincinnati	OH	US	?	?	?	?
620	Zeigler, Marie		Belding	MI	US	Right	Right	0	0
621	Ziegler, Alma		Los Angeles	CA	US	Right	Right	0	0
622	Ziermak, Frances		Jamaica	NY	US	?	?	?	?
623	Zillmer, Ruth	Ries	Walworth	WI	US	Right	Right	0	0
624	Zipay, Suzanne	Parsons	Hingham	MA	US	Right	Right	0	0
625	Zonia, Violet		Havana		CUBA	?	?	?	?

No.	Player	Maiden Name	Home Town	State	Country	Batted	Threw	X Over	Left All
626	Zoromsky, Marie	Menheer	Kenosha	WI	US	Right	Right	0	0
Totals								37	23
As a % of all known players - 206 of the 626 total not known								8.81%	5.48%
Total % Right Hand Players								85.71%	