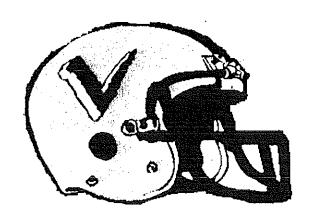
# Spring Valley Football Strength & Conditioning Nutrition Handbook



"You are what you eat"

Compiled by Dr. M. Armstrong



Nutrition is a very weak, if not the missing link to optimal athletic performance. It has only been within the last century that the real understanding concerning nutritional effects on aging, general health, and athletic performance has emerged. Sports nutrition is now one of the most studied areas of nutrition, and many long-held concepts of good nutrition, particularly those relevant to athletes, are being challenged. What you eat, how it is eaten, and when it is eaten may play a critical part on health and athletic performance.

#### The Role of Carbohydrates

- Energy source (Carbs are fuel for your muscles)
- You must meet the athletic daily requirements of protein consumption, if there is
  a deficiency the body reduces glycogen reserves and the blood sugar causes it to
  start breaking down muscle.
- Glycogen storage form of complex carbohydrate in muscle.
  - ✓ The average person can store 1500-2000 carbohydrate calories
  - ✓ It is important to have a diet based on high-carbohydrate foods to keep glycogen stores optimal for performance and competition.
- Carbohydrates help breakdown fat!
- Fuels the brain!
- The lack of sufficient Carbohydrates will impair athletic performance as well as mental alertness.

#### The Nature of Carbohydrates

- All simple, double and complex sugars are carbohydrates.
- Plants main source in your diet.
  - ✓ Fruits, vegetables, grain (cereal, pasta, rice, breads).
- Starch complex carbohydrates.
  - ✓ Found in seeds, corn, cereal, pasta, peas, beans and potatoes.
  - ✓ Should constitute 50% of total carbs.
- Fiber complex carbohydrates.
  - ✓ Found in oat bran, beans, brown rice, peas, carrots, wheat bran, and skins of fruits and vegetables.
  - ✓ Provides no calories, slows rate of digestion, and may decrease the total number of calories consumed in subsequent meals.
  - ✓ Consume 20-35 grams per day.
- <u>Carbohydrate</u> should supply 60% of total daily calories.
  - ✓ Mainly from fiber rich fruits, grains, and vegetables.
  - ✓ 4 calories per 1 gram of carbohydrate (if there are 25 grams of carbs. Then 100 calories are derived from carbohydrates).

#### The Role of Protein

- Tissue synthesis and repair (muscle).
- Structure (hair, skin, nail, bones, tendons).
- · Regulate the break down of carbohydrates, fat, and protein for energy.

#### The Nature of Protein

- Amino Acids are the building blocks of protein.
- 4 calories per 1 gram of protein (if there are 6 gram of protein then 24 calories are derived from protein,
- Complete protein: foods that contain all of the amino acids.
  - ✓ Eggs, milk, lean red meat, fish, and poultry.
- <u>Incomplete protein</u>: foods that do not contain all the amino acids. These foods are eaten to complement each other in order to get the full amino acids in the diet.
  - ✓ Beans, peas, nuts, cereals, whole grain bread, rice and pasta.
- Protein should constitute 12-15 % from your daily calories. You should consume
   0.8 gram of protein per kg of body weight.

Example: 225lb. Athlete.

225 lb. / 2.2 = 102 kg

 $102 \text{ kg} \times 0.8 = 81 \text{ grams of protein a day}$ 

- Excessive Protein Intake:
  - ✓ An intake of greater then three times the recommended level does not enhance work capacity during intense training.
  - Excess protein that the body does not use for repair or energy is converted into fat, not muscle.
- High Protein Diet: may inhibit performance.
  - ✓ May cause strain on the kidneys and liver function, followed by Dehydration.
  - ✓ Electrolyte imbalance.
  - ✓ Glycogen Depletion.
  - ✓ Loss of lean muscle mass.

#### The Role of Fats

- · Energy reserve.
- Protects the vital organs.
- Transports fat-soluble vitamins (A, D, E, & K)

#### Nature of Fats

- Saturated Fats (solid):
  - ✓ Visible fat you may see on meats, chicken and pork. Dairy products such as sour cream, butter, cheese, whole milk.
  - ✓ Limit these in your diet.
- Unsaturated Fats (liquid):
  - ✓ Plant derived fat (monounsaturated and polyunsaturated fat). Most of the cooking oils, peanuts, almonds, pecans.
  - ✓ You want most of your fat to come from these sources.
- Energy: Fat is nutrient dense.
  - ✓ 9 calories per 1 gram of fat (if there are 5gm of fat per serving 45 calories are derived from fat).
- Fat should constitute 30% of your daily calories
  - ✓ You want to limit saturated fat to 10% of daily calories
  - ✓ Try to get most of your fat calories from unsaturated fats.
- Fat does not make you fat.
  - ✓ Eating more calories than your body burns for energy is what makes you gain body fat.
  - ✓ These calories can come from any source Carbohydrate, Protein and fats.
  - ✓ There are many benefits in eating a low-fat diet (30% of daily calories), But extremely low-fat diets can actually impair athletic performance.



# Viking Nutrition

#### Step #1- Incorporate Fruits, Vegetables, Nuts and Seeds with your Meal.

- 1. Natural Sources of anti-oxidant vitamins and minerals.
- 2. Vitamin E sources also provide essential oils (good fat).
- 3. Vitamin C sources are typically citrus fruits.
- 4. Vitamin A sources are typically red, orange, and green vegetables.
- 5. High Priority List give you A & C in one food.

#### Step #2- Alter your Carbohydrate intake relative to your activity level.

- 1. Carbohydrate is preferred energy source for fast twitch muscle fibers (60-65% of total caloric intake).
- 2. Carbs are rapidly depleted from fast twitch fibers when doing quick burst activities with short rest intervals.
- 3. Low carbohydrate intake on training days can leave you fatiguing early, leading to pulls & cramps.
- 4. You need to more carbs at meals before (11/2-2 hours) or after activity where this type of work will be performed. Figure about half the food on your plate or tray.
- 5. A good mix between slow, medium and fast digesting carbs is best at meals before and after activity (Best, Second, & Third Choice Carbohydrates).
- 6. HOWEVER, if you continue to eat half the food on your plate or tray from carbs on your off-days then you will minimize fat use and actually increase fat storage, leaving you exercise dependent to keep fat off.
- 7. You need to reduce your intake from Third Choice Carbohydrates on off-days, this will result in greater use of fat on off-days when fat can adequately meet your energy requirements.

#### Step #3- Select a Lean Protein Source.

- 1. Heart Disease, Cancer, and Obesity are just a few of the problems with high fat protein consumption.
- 2. "Best Choice Protein" has less then 10 grams of fat per serving.
- 3. "Second Choice Protein" has 11-20 grams of fat per serving.
- 4. "Third Choice Protein" has over 20 grams of fat per serving.
- 5. Need to diversify protein intake and base daily consumption on body weight (0.8-1.2 grams of protein/pound of body weight).
- 6. Breaking up protein intake with meals, snacks, and supplements throughout the day will enhance recovery, lessen muscle soreness, and help you avoid over eating.
- 7. Proteins should make up ~20% of your total caloric intake.



# Viking Nutrition

#### 3 Winning Steps Shopping Lists

Step #1- Incorporate Fruits, Vegetables, Seeds and Nuts with your Meal.

Step #1 Almonds Avacado or Guacamole Corn Oil Mayonaise Olive Oil Peanut Butter Peanuts Salmon Soybean Oil Sunflower Seeds or Oil Walnuts

Vitamin E Broccoli Cantaloupe Dried Papaya Red Peppers Red Marinara Tomato Juice Tomato Sauce Tomatoes

Salsa

High Priority List-Vitamins A & C Vitamin A Brussels Sprouts Dark Salad Greens Grapefruit Guavas Mandarin Oranges Mangos Sweet Potatoes Tangerines V8 (Vegetable Drink)Watermelon Yams Winter Squash. Egg Yolk

Vitamin C Cauliflower Apricots Carrots Green Beans Cheese Kiwi Green Peas New Potatoes w/ Skin Peaches

Pumpkin

Yogurt

Skim Milk

Oranges Pineapple Raisins Strawberries Chili Powder Pea Pods Tomato Catsup or BBO Green/Yellow Pepper

Baked Russet Potatoes

Step #2- Alter Your Carbohydrate Intake Relative To Your Activity Level. Third Choice Carbs

Step #2 Acorn Squash Black Beans Butter Beans Cherries Cucumbers or Pickles Egg Noodles Egg Plant Fettucini Green Beans Kidney Beans Lentils Mushrooms Nectarines Onions Pears Plums Split Peas Summer Squash

Best Choice Carbs All Bran Cereal Baked Beans Bran Chex Brown or Wild Rice Cherrios Cream of Wheat Lima Beans Mini or Shreaded Wheat Multi Grain Bread New Boiled Pot. w/ Skin Oat Bran Oatmeal Pita Bread Rye Bread

Special K Cereal Tortillas Unsweetened Fruit Juice Whole Grain Bread

Second Choice Carbs Apples Banana Cake Bananas Cornmeal Grapes Green Peas Macaroni Oatmeal Cookies Popcorn Pound Cake Raisins Ravioli Spagnetti. Sweet Corn Sweet Potatoes Water Crackers Wheat Crackers

Whole Wheat Flour

Candy Cartoon Character Cereals Doughnut French Bread French Fries Golden Grahams Grapenuts Hashbrowns Mashed Potatoes Melba Toast Puffed Rice Refried Beans Sweetened Drinks Total Cereal White Bread White Flour White Rice

\*Remember to reduce your total carbohydrate intake on days your not active, especially third choice carbohydrates!

#### Step #3- Select a Lean Protein Source

95% Lean Ground Beef 95% Lean Ground Turkey 95% Lean Ham Beans & Peas Chicken- White Meat Skinless Fat Free Ice Milk Low Fat Cottage Cheese Non Fried Fish or Seafood Skim Milk Trimmed Beef or Poark Roast Turkey- White Meat Skinless White Meat Tuna in Water Whole Grains Yogurt from Skim Milk

85% Lean Ground Beef 85% Lean Ground Turkey 85% Lean Ham 85% Lean Encased Meats Low Fat Cheese Low Fat Yogurt

**Best Choice Protein** 

2% Milk

Regular Cottage Cheese Regular Yogurt Trimmed Lamb Trimmed Beef Brisket Turkey Bacon or Sausage Whole Milk

Second Choice Protein Baked Chix. Strips or Nuggets Chicken- Dark Meat Skinless Dark Meat Tuna in Water Frozen Ice Milk Low Fat Pudding Nuts or Seeds Peanut Butter Ricotta Cheese Skim Mozzarella Cheese Trimmed Choice Steaks Trimmed Pork Chops Turkey- Dark Meat Skinless

Third Choice Protein 75% Lean Ground Beef 75% Lean Ground Turkey Bacon Beef or Pork Ribs Chicken- With Skin Pried Chicken Fried Fish or Seafood Ham on Bone Ice Cream Regular Cheese Regular Encased Meats Whole Meats

<sup>\*</sup>Concentrate on best choice items as your protein source.



### Fast Food Facts

Product Serving Size	Calories	CHO(gm)	Protein (gm)	Fat(gm)
Burger King		7		
Hamburger 1 (3.6 oz)	260	28	14	10
Cheeseburger 1 (4 oz)	300	28	16	14
Whopper 1 (9.5 oz)	570	46	27	31
Whopper Jr 1 (4.7 oz)	300	29	14	15
Whopper Jr w/1 (5 oz)	350	30	16	19
cheese	220	20	10	
Double Whopper 1(12.3 oz)	800	46	46	48
Double Whopper 1(13.2 oz)	890	48	51	55
W/ cheese	0,0		<b>v</b> -	
Bacon Double 1(5.3 oz)	470	26	30	28
Cheeseburger	., 0			
Bacon Double 1(6.5 oz)	530	28	30	33
Chees. Deluxe				
Double Cheeseburger 1(5.6)	oz) 450	29	27	25
BK Broiler 1 (5.4 oz)	280	29	20	10
Chicken Sandwich		•	•	
Chicken Sandwich 1 (8 oz)	620	57	26	32
Chicken Tenders (6 pieces)	236	14	16	13
Ocean Catch 1 (5.8 oz)	450	33	16	28
Fish Filet				
Breakfast Items				
Bacon, Egg, Cheese 1 (4 oz)	353	19	16	23
Croissanwich				
Sausage, Egg, 1 (5.6 oz)	534	22	21	40
Cheese Croissanwich				•
Ham, Egg, Cheese 1 (5 oz)	351	20	19	22
Croissanwich				
Breakfast Buddy w/ 1 (3 oz)	255	15	11	16
Sausage, Egg, Cheese				
French Toast Sticks 1 (5 oz)	440	60	4	27
Hash Browns 1 (2.5 oz)	213	25	2	12
Blueberry Mini 1 (3.3 oz)	292	37	4	14
Muffins				
Orange Juice 1 (6.5 oz)	82	20	1	0



Product	Serving Size	Calories	CHO(gm)	Protein(gm)	Fat(gm)
Domino's P	Pizza			•	,
Cheese Pizza 16" (large)	(2 slices)	376	56	22	10
Pepperoni Piz	za (2 slices)	460	56	24	18
	room (2 slices)		55	24	16
Veggie Pizza		498	60	31	19
Deluxe Pizza		498	59	27	20
Double Chees		545	55	32	25
Ham Pizza (2		417	58	23	11
Kentucky F	ried Chicken	·			
Original Reci	pe				
Wing	1 (1.9 oz)	172	5	12	11
Side Breast	1 (2.9 oz)	245	9 .	18	15
Center Breast		260	8	25	14
Drumstick	1 (2 oz)	162	3	14	9
Thigh	1 (3.4 oz)	287	8	18	21
Extra Crispy					
Wing	1 (2 oz)	231	8	11	17
Side Breast	1 (3.7 oz)	379	16	19	27
Center Breast	1 (3.9 oz)	344	15	23	21
Drumstick	1 (2.4 oz)	205	7	14	14
Thigh	1 (4.2 oz)	414	14	20	31
Hot & Spicy				•	
Wing	1 (2.2 oz)	244	9	12	18
	1 (4.1 oz)	398	18	21 .	27
Center Breast	• •	382	16	24	25
Drumstick	1 (2.5 oz)	207	10	11	14 ·
Thigh	1 (4.2 oz)	412	16	19	30
KFC Skinfred	e Crispy Chick	cen			
Center Breast		296	11	24	16
	1 (2 oz)	166	8	13	9
Side Breast	1 (3.6)	293	11	22	17
Thigh	1 (3 oz)	256	9	17	17
~	~ (3 02)	200	,	<b>~</b> /	± 1



Side Orders         Chicken Little's 1 (1.7 oz) 169       14       6       10         Sandwich         Colonel's 1 (5.9 oz) 482       39       21       27         Chicken Sandwich         Hot Wings 6 (4.8 oz) 471       18       27       33         Buttermilk 1 (2.3 oz) 235       28       5       12         Biscuits         Mashed Potatoes 1 (3.5 oz) 71       12       3       2         W/ Gravy         French Fries 1 (2.7 oz) 244       31       3       12         Crispy Fries 1 (3.1 oz) 294       33       4       17         Potato Salad 1 (3 oz) 141       13       2       9         Baked Beans 1 (3 oz) 105       18       5       1         Corn-on-Cob 1 (2.6 oz) 90       16       3       2         Cole Slaw 1 (3.2 oz) 114       13       1       6
Sandwich Colonel's 1 (5.9 oz) 482 39 21 27 Chicken Sandwich Hot Wings 6 (4.8 oz) 471 18 27 33 Buttermilk 1 (2.3 oz) 235 28 5 12 Biscuits Mashed Potatoes 1 (3.5 oz) 71 12 3 2 W/ Gravy French Fries 1 (2.7 oz) 244 31 3 12 Crispy Fries 1 (3.1 oz) 294 33 4 17 Potato Salad 1 (3 oz) 141 13 2 9 Baked Beans 1 (3 oz) 105 18 5 1 Corn-on-Cob 1 (2.6 oz) 90 16 3 2 Cole Slaw 1 (3.2 oz) 114 13 1 6
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Mashed Potatoes 1 (3.5 oz)       71       12       3       2         W/ Gravy       French Fries       1 (2.7 oz)       244       31       3       12         Crispy Fries       1 (3.1 oz)       294       33       4       17         Potato Salad       1 (3 oz)       141       13       2       9         Baked Beans       1 (3 oz)       105       18       5       1         Corn-on-Cob       1 (2.6 oz)       90       16       3       2         Cole Slaw       1 (3.2 oz)       114       13       1       6
W/ Gravy         French Fries 1 (2.7 oz)       244       31       3       12         Crispy Fries 1 (3.1 oz)       294       33       4       17         Potato Salad 1 (3 oz)       141       13       2       9         Baked Beans 1 (3 oz)       105       18       5       1         Corn-on-Cob 1 (2.6 oz)       90       16       3       2         Cole Slaw 1 (3.2 oz)       114       13       1       6
French Fries       1 (2.7 oz)       244       31       3       12         Crispy Fries       1 (3.1 oz)       294       33       4       17         Potato Salad       1 (3 oz)       141       13       2       9         Baked Beans       1 (3 oz)       105       18       5       1         Corn-on-Cob       1 (2.6 oz)       90       16       3       2         Cole Slaw       1 (3.2 oz)       114       13       1       6
Crispy Fries       1 (3.1 oz)       294       33       4       17         Potato Salad       1 (3 oz)       141       13       2       9         Baked Beans       1 (3 oz)       105       18       5       1         Corn-on-Cob       1 (2.6 oz)       90       16       3       2         Cole Slaw       1 (3.2 oz)       114       13       1       6
Potato Salad       1 (3 oz)       141       13       2       9         Baked Beans       1 (3 oz)       105       18       5       1         Corn-on-Cob       1 (2.6 oz)       90       16       3       2         Cole Slaw       1 (3.2 oz)       114       13       1       6
Potato Salad       1 (3 oz)       141       13       2       9         Baked Beans       1 (3 oz)       105       18       5       1         Corn-on-Cob       1 (2.6 oz)       90       16       3       2         Cole Slaw       1 (3.2 oz)       114       13       1       6
Baked Beans       1 (3 oz)       105       18       5       1         Corn-on-Cob       1 (2.6 oz)       90       16       3       2         Cole Slaw       1 (3.2 oz)       114       13       1       6
Cole Slaw 1 (3.2 oz) 114. 13 1 6
Cole Slaw 1 (3.2 oz) 114. 13 1 6
M-DII-
<u>McDonalds</u>
Sandwiches
Hamburger 1 (3.6 oz) 255 30 12 9
Cheeseburger 1 (4 oz) 305 30 15 13
Quarter Pounder 1 (5.9 oz) 410 34 23 20
Quarter Pounder 1 (6.8 oz) 510 34 28 28
W/ Cheese
Big Mac 1 (7.6 oz) 500 42 25 26
Filet-O-Fish 1 (5 oz) 370 38 14 18
McLean Deluxe 1 (7.3 oz) 320 35 22 10
McLean Deluxe 1 (7.7 oz) 370 35 24 14
W/ Cheese
McChicken 1 (6.5 oz) 415 39 19 20
Chicken Fajitas 1 (2.9 oz) 190 20 11 8
Chicken McNuggets
Chicken Nuggets (4 Pieces) 180 11 13 10
Chicken Nuggets (6 Pieces) 270 17 20 15
Chicken Nuggets (9 Pieces) 405 25 30 22
French Fries
French Fries small 220 26 3 12
French Fries medium 320 36 4 17



Product	Serving Size	Calories	CHO(gm)	Protein(gm)	Fat(gm)
French Fries	large	400	46	6	22 .
Prench Pires	large	400	10		
Breakfast					•
Egg McMuffii	1 (48 07)	280	28	18	11
	fuffin 1(4.8 oz)		27	15	20
-	uffin 1 (5.6 oz)		27	21	25
W/Egg	. (2.0 02)	.50			
Scrambled Eg	gs 2 (3,5 oz)	140	1	12	10
Sausage	1 (1.5 oz)	160	0	7 .	15
English Muffi	•	170	26	5	4
W/Spread	, ,				
Hash Browns	1 (1.9 oz)	130	15	1 .	7
Biscuit w/	1 (2.6 oz)	260	32	5	13
Biscuit Spread					
Sausage Biscu	it 1 (4.2 oz)	420	32	12	28
Sausage Biscu	it 1 (6.2 oz)	505	33	19	33
W/ Egg					
Bacon, Egg,	1 (5.4 oz)	440	33	15	26
And Cheese B	Biscuit				_
Hot Cakes	1 order	250	44	3	2
	,				
<u>Pizza Hut</u>					
militar and Chile					
Thin -n- Cris	spy 1 slice	223	19	13	10
Cheese Beef	1 slice	231	20	13	11
	1 slice	230	20	12	11
Pepperoni		282	20	14	17
Italian Sausag Pork	ge i shee 1 slice	240	20	13	12
Meat Lovers	1 slice	297	20	14	16
Veggie Lovers		192	20	11	8.
Pepperoni	1 slice	320	20	18	19
Lovers	1 51100	J2V	20	* 0	
Supreme	1 slice	262	20	15	14
Super Supren		253	20	16	12
auber aubren	. I SHOP	ددے	20		
Hand Tossed				·	_
Cheese	1 slice	253	27	15	9
Beef	1 slice	261	28	15	10
Pepperoni	1 slice	283	28	20	10



	•				
Product	Serving Size	Calories	CHO(gm)	Protein (gm)	Fat(gm)
Italian Sausag	ge 1 slice	313	27	16	15
Pork	1 slice	270 .	28	15	11
Meat Lovers	1 slice	321	28	16	15
Veggie Lover	s 1 slice	222	28	13	7
Pepperoni	1 slice	335	28	19	16
Lovers					
Supreme	1 slice	289	28	17	12
Super Suprem	e 1 slice	276	28	17	10
Pan					
Cheese	1 slice	279	26	14	13
Beef	1 slice	288	27	10	18
Pepperoni	1 slice	280	26	8	18
Italian Sausag	e 1 slice	399	26	15	24
Pork	1 slice	296	27	10	19
Meat Lovers	1 slice	347	27	15	23
Veggie Lovers	s 1 slice	249	27 .	7	15
Pepperoni	1 slice	362	27	14	25
Lovers					
Supreme	1 slice	315	27	16	16
Super Suprem	e 1 slice	302	27	12	19
Bigfoot					
Cheese	1 slice	179	24	9	5
Pepperoni	1 slice	195	24	10	7
Pepperoni,	1 slice	213	25	10	8
Italian Sausage	Э,			•	-
Mushroom					
Personal Pan	Pizza				
Pepperoni	1 whole	675	76	36	29
Supreme	1 whole	647	76	37	28
,	.,	· · · ·	, 0	57	20
Taco Bell					
Specialties					
Bean burrito	1 (6.7 oz)	359	54	13	11
	1 (6.7 oz)	402	38	22	17
	1 (9 oz)	451	40	23	22
Burrito Supren	` '				مدب



Product	Serving Size	Calories	CHO(gm)	Protein(gm)	Fat(gm)
Tostada	1 (5.5 oz)	243	28	10	11
Beefy Tostada	a 1 (7 oz)	322	22	15	20
Beef Maxime		266	19	13	15
Chicken Maxi	melt 1 (3.8 oz)	257	19	14	15
Bellbeefer	1 (6.2 oz)	312	32	16	13
Chicken Burr		334	38	17	12
Burrito Supre		422	46	17	19
Combination		380	46	17	14
Burrito	,		•		
Enchirito	1 (7.5 oz)	382	30	21	20
Taco	1 (2.75 oz)	184	11	10	11
Chicken Soft	1(3.7  oz)	213	19	14	10
Taco					
Taco Light	1 (17 oz)	1062	97	38 .	58
Platter					
Burrito Supre	me 1 (16 oz)	774	76	35	37
Platter					
Cheesarito	1 (4 oz)	312	37	12	13
Mexican Pizz	a1 (9.5 oz)	714	43	28	48
Taco Bellgran	de 1 (17 oz)	1002	99	37	51
Platter					
Pintos and Ch	neese 1 (4.5 oz)	194	19	9	10
Nachos	1 order (3.7 oz	z) 346	37	7	18
Nachos Bellg	rande 1 (10 oz)	649	61	22	35
Taco Bellgran		351	20	18	22
Taco Light	1 (6 oz)	411	.18	19	29
Soft Taco	1 (3.25 oz)	228	18	12	12
Fajita Steak T	aco 1 (5 oz)	235	20	15	11
	aco 1 (5.75 oz)	281	21	15.	15
W/ Sour Crea				•	
Fajita Steak T	Taco 1 (5.75 oz)	269	23	15	13
W/ Guacamo			•		
Chicken Fajit		226	20	14	10
Cinnamon Cr		266	20	3	16
	*	•			
Salads	-				
Taco salad	1 (18 oz)	822	47	31	57
W/out Beans	,				
Taco Salad	1 (18 oz)	931	60	35	62
W/out salsa	, ,				



Product	Serving Size	Calories	CHO(gm)	Protoin (cm)	Fot(o)
Taco Salad	1 (20 oz)	1167	61	Protein(gm) 37	<u>Fat(gm)</u> 87
W/ Ranch dre		110,	01	57	0 /
Seafood Salad		884	49	25	66
W/Ranch dre	ssing		,,,	22	VV
Seafood Salad	l 1 (10 oz)	217	12	18	11
W/out dressin					
Seafood Salac		648	47	24	42
W/ out dressing	~				
Taco Salad	1 (21 oz)	949	63	36	62
W/ Salsa					
Taco Salad	1 (18.7 oz)	502	26	29	31
W/out Shell	1 (10 7 . )				
Taco Salad W/ Salsa	1 (18.7 oz)	520	30	31	31
W/Salsa W/out Shell					
Would buch					
Wendy's					
1, 0,000					
Sandwiches					
Single Hambu	rger 1 (4.7 oz)	350	31	25	15
On Bun	,			20	13
Single w/	1 (7.7 oz)	440	36	26	23
Everything					
Double Hambı	ırg 1 (7 oz)	560	26	44	30
On Bun					
Big Classic on	1 (8.9 oz)	480	44	27	23
Kaiser Bun					
Double w/ Che			26	48 ·	36
	1 (5.3 oz)	440	26	30	24
Cheeseburger	1 / 5 4 3				
Country Fried	1 (5.4 oz)	460	45	15	26
Steak Fish Sandwich	1 (6 4)	460	40		
		460	42	18	25
Grilled Chicker Sandwich	u i (0.23 02)	290	35	24	7
Breaded Chicke	en 1 (7 3 og)	450	A A	20	0.0
Sandwich	3H I (7.5 OZ)	450	44	26	20
Chicken Club	1 (7.75 07)	520	44	30	25
Sandwich	- (110 00)		न <b>ा</b>		25
Jr. Hamburger (	(4 oz)	270	34	15	9
, ,	`		- I	10	,



Product	Serving Size	Calories	CHO(gm)	Protein(gm)	Fat(gm)
	rger 1 (4.5 oz)		34	18	13
Jr. Bacon	1 (6 oz)	440	33	22	25
Cheeseburge	r				23
Jr. Cheesebu	rger 1 (6.3 oz)	390	36	18	20
Deluxe				10	20
Hamburger	1 (4 oz)	270	33	15	9
Kid's Meal				15	
Cheeseburge	r 1 (4.3 oz)	310	33	18	13
Kid's Meal					15
Baked Potate	0				
Plain	1 (10 oz)	300	69	6	tr
Bacon & Che	ese 1 (13.4 oz)	510	75	17	17
Broccoli &	1 (14.5 oz)	450	77	9 .	14
Cheese	` ,				14
Cheese	1 (13.5 oz)	550	74	14	24
Chili and	1 (15.5 oz)	600	80	21	2 <del>4</del> 25
Cheese					25
Sour Cream &	z 1 (11 oz)	370	71	8	6
Chives	`. '			U	U
Sour Cream	1 pkt.	60	1	1	6
French Fries.	Nuggets, and	Chili			•
Small	3.2 oz	240	33	3	12
Medium	4.8 oz	360	50	5	12 17
Biggie	6 oz	450	62	. 6	22
Chicken	6 pieces	280	12	14	20
Nuggets		<del>_</del>	12	T-1	40
Barbecue Sauc	e 1 pkt.	50	11	1	0
Sweet &	1 pkt.	45	11	1 .	tr
Sour Sauce	•	,	**		rt.
Sweet Mustard	l 1 pkt.	50	9	1	1
Chili	Small	190 ·	21	19	1 6
Chili	Large	290	31	28	9 .
Cheddar Chees		70	1	4	6
Saltine Cracke	rs 6	75	12	2	3
Salads					
~	1 (4.5 oz)	160	18	10	6
Salad	( V)		ž U	10	6



Product	Serving Size	Calories	CHO(gm)	Protein (gm)	Fat(gm)
Deluxe Garde	en 1 (9.6 oz)	110	9	7	5
Salad				•	
Taco Salad	1 (18 oz)	640	70	34	30
Taco Sauce	1 pkg	10	tr	tr	tr
Grilled	1 (12 oz)	200	9	25	8
Chicken Sala	d .				
Side Salad	1 (6.6 oz)	60	4	3	tr
Breadstick	1 (1.5 oz)	130	24	4	3

#### HOW TO GAIN WEIGHT

#### BASIC CONCEPTS

- 1. There are two ways to gain body weight:
  - a. Consume more calories than you burn off (diet).
  - b. Burn off <u>less</u> calories than you consume or take in (exercise).
- To gain weight, you have to take in more calories than your body burns up during exercise.
- 3. A pound of body weight equals 3500 calories. So, in order to gain a pound, you need to eat 3500 calories more than your body uses.
- 4. Realistically, you can gain about one or two pounds in a week if you consume 500 to 1000 calories extra every day.
- 5. Eat at least three balanced meals a day, preferably five meals a day.
- 6. Eat daily servings from the four basic food groups:
  - a. Grain products 4 servings.
  - b. Fruit and vegetables 4 servings.
  - c. Dairy products 3 servings.
  - d. Meat, poultry, and fish 2 servings.
  - \* Notice that with 8 servings coming from grain products and fruits and vegetables allows for most of the increased calorie intake to come from carbohydrates.
- 7. Eat larger portions at meals.
- 8. Have snacks between meals that are high calorie, and also rich in nutrients such as:
  - a. Nuts.
  - b. Dried fruits
  - c. Shakes and Malts
  - d. Cheese
  - e. Sandwiches
  - f. Pizza
  - avoid snacks between meals that are high in calories, but low in nutrients. If you do eat them, do not substitute them for nutrient rich foods. Some high calorie, low-nutrient foods are:
    - a. Soft drinks
    - b. Cakes, pies, cookies
    - c. Salty snacks foods
    - d. Jams, jellies, syrups
    - e. Doughnuts, sweet rolls

Page Two - NOW TO GAIN WEIGHT - cont.

- 10. Eat a quality breakfast.
- 11. Keep regular hours with plenty of rest.
- 12. Eat a sandwich before going to bed, or leftovers from Supper.
- 13. Never miss a weight training workout, because the weight you do gain needs to be lean muscle mass.

#### GAINING MUSCLE INSTEAD OF FAT

To put on muscle, you need to eat extra calories. But common sense tells us that if you take in extra calories and don't exercise, you will gain fat. Strength training will use the extra calories to stimulate muscle cells to grow.

To find out which you've gained, measure your body fat before you start your weight gain program. If you've gained fat, you'll see an increase in body fat percent. If you've gained muscle, you will see either a decrease in percent body fat or no change. Remember, the lower percent of body fat an athlete has, the more efficiently they will perform.

#### HOW TO LOSE WEIGHT

#### BASIC CONCEPTS:

- There are two ways to lose body fat
   A. Burn off more calories than you take in (exercise).
   B. Consume fewer calories than you burn off (diet).
- 2. It is possible to safely lose one to two pounds of body fat a week. If you lose weight any faster than that, you may begin to lose muscle as well as strength too.
- 3. For each pound of fat you want to lose, you have to eliminate 3500 calories. You should do this with a combination of diet and exercise.
- 4. For an athlete, diet alone is not a good way to take off pounds. Cutting your calorie intake below 2000 calories means you won't get the energy you need for training and competition. In short, your performance may suffer.
  - Losing weight through exercise alone involves increasing your activity level considerably.

6. The fastest and perhaps the easiest way to lose weight is with a combination of diet and exercise. If you eat 500 calories less and exercise 500 calories more, you could

burn up 1000 calories a day. At this rate, you could lose two pounds in a week.

7. Estimated Daily Calorie Intake in Relation to Current Body Weight:

# Weight Objectives

	<b>4</b>	<b></b>	2° 2 15.5
Weight	Reduce	Maintain	Increase
			3,790
160	2,290	3,040	3,980
170	2,480	3,230	4,170
180	2,670	3,420	4,360
190	2,860	3,610	4,550
200	3,050	3,800	4,740
210	3,240	3,990	4,930
220	3,430	4,180	5,120
230	3,620	4,370	5,310
240	3,810	4,560	5,500
250	4,000	4,750	5,690
260	4,190	4,940	5,880
270	4,380	5,130.	6,070
280	4,570	5,320	6,260
- 290	4,760	5,510	37 A 6, 450
300	4,950	5,700	
		1 ( T. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	

#### Tips for Bulking Up

- 1. <u>EAT BIG</u>- Eat every two hours. If you are serious about putting on size, you have to be serious about getting a continuous supply of nutrients into your body.
- 2. TAKE IN PLENTY OF HIGH QUALITY PROTEINS AND CARBS- Don't mistake bulking up for an excuse to eat all kinds of junk. It is fine if you have a treat everyday or two, but the majority of your food should be high- quality proteins like poultry, fish, eggs and lean red meat; complex carbohydrates like potatoes, yams, rice and oatmeal; and fibrous carbs, which are raw vegetables.
- 3. <u>HAVE A SHAKE AFTER EVERY TRAINING SESSION-</u> Training depletes your body of protein and glycogen, so the perfect time to put nutrients back and speed up your recovery is immediately after training.
- 4. EAT LEAN RED MEAT AT LEAST ONCE A DAY- Even back in the old days the strength building benefits or red meat were well known.
- 5. TRAIN BIG: USE THE BASIC EXERCISES— Movements like the Squat, Bench, Clean, deadlift, barbell row and military press will pack insane amounts of muscle on anyone who has the guts and discipline to stick with them and work up to very heavy poundages.
- 6. TRAIN WITH A PARTNER- Not only can partners spot you and help you get forced reps, that the rivalry between training partners can make for better gains than you can imagine.
- 7. REST BIG-GET PLENTY OF SLEEP- The added stress of heavy training along with the pressures of school and family can tax your recovery abilities. Eight hours is a good rule of thumb.
- 8. GIVE YOURSELF TIME TO GAIN WEIGHT- Gaining Muscular Weight is a slow process. Five pounds a month is a reasonable amount of weight gain when you are in full- blown bulk-up phase. Little gains quickly add up to huge gains. Body weight 225-3 months 240 with minimum gain in % body fat.

#### Homemade Weight-Gainer

3 CUPS WHOLE MILK 450 CALORIES

1 CUP VANILLA ICE CREAM 270 CALORIES

2 BANANAS 210 CALORIES

1 CUP NONFAT
POWDERED MILK 430 CALORIES

TO THE PARTY OF TH

POWDERED MILK
\*May add Hersey's Syrup for flavor

THIS MAKES A HIGH-POWERED PROTEIN DRINK THAT PACKS A GOOD 1360 CALORIES. IF YOU WERE TO DRINK TWO OF THESE A DAY IN COMBINATION WITH THE THREE WHOLESOME MEALS, YOU COULD REALLY ADD SOME DECENT SIZE.

\*\* The advantage to purchasing and consuming a quality supplement is that these products contain the essential amino acids that enable the body to utilize the added protein more efficiently.

## Hydration and Physical Fitness

It's no sweat that an athlete will perform better when he or she is well hydrated. This is mainly because muscle contractions are initiated by electrical impulses that are carried through water. Therefore, wellhydrated muscles can achieve more intense contractions over longer

periods of time.

In the long term, the importance of deep cellular hydration cannot be emphasized enough. To optimize your physical performance, you must keep your body functioning efficiently at all times. To do this, your body must maintain high levels of deep cellular hydration so that the delivery of nutrients and oxygen, the removal of toxins and wastes (lactic acid), the functioning of metabolic enzymes, and the electrical properties of the cells and cell systems are optimized. This will improve your body's ability to repair itself, reduce your recovery times, and allow your body to CONSISTENTLY perform at higher levels.

# Tips for Proper Hydration

1. Cut out sodas or soft drinks

2. Milk, sports drinks and juice are great, but water is essential.

3. The average person needs between 8-10 eight ounce glasses of water a day. If you are an athlete, you need more.

4. Hydrate before, during, and after exercise.

5. Water intake and cramping are often linked. If cramping is a problem, simply increase potassium levels. One great source for this-bananas.

#### **Hydration Research**

1. 75% of Americans are chronically dehydrated.

2. In 37% of Americans, the thirst mechanism is so weak that it is mistaken for hunger.

3. Even mild dehydration will slow one's metabolism as 3%.

4. Lack of water is the #1 trigger of daytime fatigue.

5. Preliminary research indicates that 8-10 glasses of water a day could significantly ease back and joint pain for up to 80% of sufferers.

6. Drinking 5 glasses of water daily decreases the risk of colon cancer by 45%, plus it can reduce breast cancer risk by 79% and bladder cancer by 50%.

#### \*\*\*\*Soft Drink Alert\*\*\*

Soft drinks such as Coke contain the active ingredient phosphoric acid. This acid leaches away calcium from bones and is the major contributor to the rising increase in osteoporosis. One needs to remember that Coke is used to clean battery terminals, remove grease and blood and clean toilets. Do you really want this in your stomach?

# Creatine Monohydrate

(From an article)

When you tense a muscle, force is produced. That force is translated into muscle contraction, but in order for the muscle to function properly, it requires energy. That energy comes from several different sources, but the primary supply is through the nutrients that you consume in your diet. These nutrients are broken down by the stomach and absorbed into the blood-stream where they undergo further alterations. One of the compounds that is formed after many complicated processes and reactions is called adenosine triphosphate (ATP). ATP is the bridge between the energy in the food we eat and actual chemical energy which enables us to lift a weight. When muscle contraction is required, stored ATP is broken down even further to another chemical known as adenosine diphosphate (ADP). When ATP is broken down to ADP, energy is released and used by the contracting muscle cell. ATP is your body's immediate source of energy:

Now, when you have used up your muscle cells' immediate source of ATP, your body tries to resupply itself by "borrowing" a high energy phosphate from a chemical called creatine phosphate (CP). (Muscle cells store CP in the same way they store ATP).

#### (Simplified wording:)

Basically, this means that during intense exercise, your source of energy, ATP is broken down to ADP, and so, your muscles need some recuperation time for the CP + ADP -> ATP + C reation to occur. Once ATP levels are restored you once again have more energy to put the muscle through intense exercise again. This process generally takes a few minutes, which disturbs the less rest time ideology - your muscles need 3-5 minutes rest time between sets if you are to put them through the same intense exercise again. Otherwise that energy source ATP just isn't available to the same degree.

It has been shown in various studies that supplementing with creatine monohydrate can increase the levels of CP in the muscle cells, and thus significantly decrease the time in which ATP levels are restored. This means extra energy during each set as well - creatine levels are normally diminished during the first few reps of each set, but by supplementing creatine, this can be extended, meaning more reps with a given weight, or the same number with a heavier weight.

#### (back to the article:)

You might ask, "Why not take a supplemental form of CP or ATP instead of creatine?" Well, as with many nutritional supplements, CP and ATP are destroyed by the gut. In fact, there are CP and ATP supplements on the market, but they go unnoticed because, quite frankly, they don't work. Not only that, consuming CP or ATP is more expensive than supplementing creatine.

#### Frequently Asked Questions

How does creatine help muscle grow?

Intensity is necessary to achieve natural strength gains and muscle growth. Muscle growth takes place when the muscle has been overloaded. Without heavy sets, your muscle will remain small. Creatine promotes intense lifting by recycling the necessary energy molecule ATP. Creatine also buffers the development of lactic acid allowing for a more enduring workout. As you know, lactic acid build-up is one of the main causes of exercise-related muscle fatigue.

#### How does creatine work?

In the body, creatine is combined with phosphorus to form creatine phosphate (phosphocreatine). The high energy phosphates stored in creatine phosphate are then used to rapidly convert ADP back to ATP. When muscles are used to lift weight, run or perform any type of work, ATP is broken down to ADP (adenosine diphosphate) and energy is released. The amount of ATP stored in the muscle will only fuel a maximum effort such as lifting a weight for 10 to 15 seconds. After that, the muscle must rely on creatine phosphate to restock its supply of ATP.

Increasing the muscle's supply of creatine phosphate helps increase the rate in which the body can supply ATP. This increases the muscles capacity to do work and improves the energy efficiency of the muscle.

Is Creatine safe?

Yes, Creatine is a natural amino acid present in the body of humans and animals. The human body has 100-115 grams of creatine in the form of creatinephosphate or phosphocreatine. No negative side effects have been noted in the research with the recommended levels of supplementation.

#### Does creatine make you retain water?

No. Creatine draws water from the body to do its work. There is a difference between cell volumization and water retention. Cell volumization leads to more water inside the cells, making muscle bigger and firmer. Water retention, the process that makes the muscles look smooth, happens outside the muscle cells.

Are the benefits of creatine backed by scientific proof?

Yes! Research studies published in Britain's prestigious Clinical Science Journal clearly showed that athletes who took Creatine Monohydrate and exercised were able to increase the available muscle Creatine dramatically. What is even more important, is that 20-30% of the increased Creatine found in the muscle was in the form of high energy Creatine Phosphate.

How does creatine enhance athletic performance?

The key benefits of creatine supplementation are:

- Promotes muscular growth
- · Increases storage of "instant" anaerobic energy
- · Increases muscle strength
- Improves endurance by delaying fatigue

# SPRING VALLEY NUTRITION CHART

"Eat to Compete"

Name

Date

2	Snack	Dinner	Snack	Lunch	Snack	Break- fast	
		·					Day 1
	-					·	Day 2
100							Day 3
		·					Day 4
			,				Day 5
							Day 6
The state of the s							Day 7
			·				Day 8
	1						Дау 9
		e					Day 10

Make sure you list everything you eat and drink, including water. The average person needs 8-10 (64-80 ounces) glasses a day to maintain an efficient working body. Remember, you are an athlete – **HYDRATE PROPERLY!**