

Performance Nutrition



FoodisFuel101 on Instagram



Is My Nutrition Sharp?

- How am I performing in the pool/dryland?
- How is my general energy level?
- How is my mood?



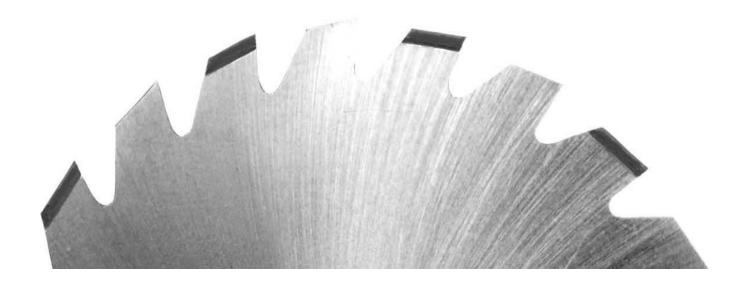


NUTRITION Sharpening the Tool

WHAT? – Choosing the Right Fuel

WHEN? – Timing It Right

HOW? - How Much Do I Need?





Meals – Choose Good Fuel WHAT & WHEN?

US OLYMPIC COMMITTEE – ATHLETE'S PLATES







5 Smaller Athlete's Plates Every 3-4 Hours

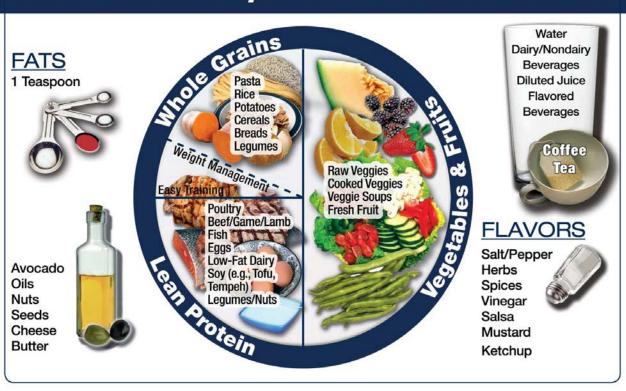
OR

3 Full-Size Athletes Plates for Breakfast, Lunch, Dinner



Meals – Easy Training

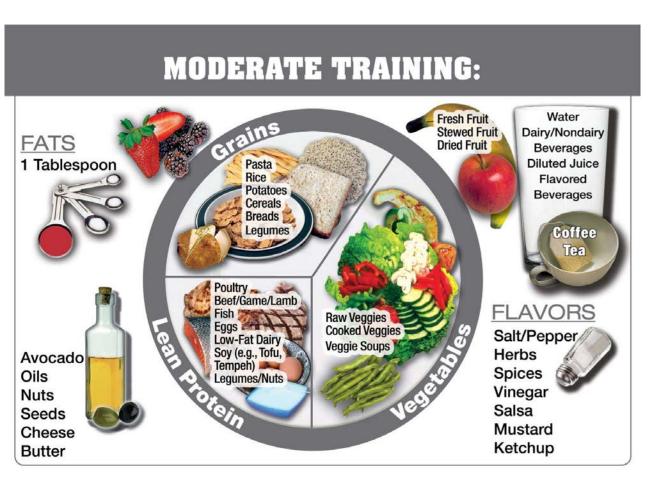
EASY TRAINING / WEIGHT MANAGEMENT:



- Recovery Training
- Days Off
- Breaks in Training
- Taper



Meals – Moderate Training



- 1-Hard Session
- 1-Hard + 1-easy
- Most Training Days



Meals – Hard Training



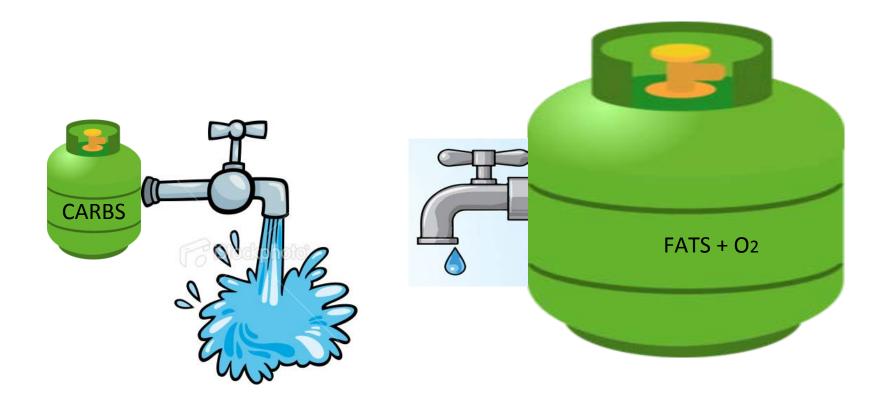
- 2+ Hard Sessions
- Summer Doubles
- Hard Dryland Days



CARBOHYDRATES + FATS >







Small Storage "Tank" Fast-Release Energy

Large Storage "Tank" Slow-Release Energy

Swimmers need 60-75% of total energy (cals) from carbohydrates!



Training Fuel

BEFORE PRACTICE:

WHEN? 3-4 Hours before

WHAT? Athlete's Plate

OR

WHEN? 1-2 Hours before

WHAT? Snack: Mostly Carbs, Some Protein, Avoid Fat

DURING PRACTICE > 1.5 Hours of Work

WHEN? Sip/Nibble Every 20-minutes

WHAT? Easily Digestible Carbohydrates

- Sports Drink, Fruit, Fruit Sauces



Training Fuel - Examples



1-hr or less before 1st event	2-3 Hours before 1st event	4 or more hours
•Easily digestible carbohydrates	•Solid (complex) carbohydrates	ATHLETE'S PLATE
 •Raisins of Dried Fruit •Banana, Apple, Berry, other Fruits •Cereal •Pretzels (handful) •Fig bar (x2) •Fruit Puree/Sauce •Sports drink (8oz, diluted) •Toast (1 slice) •Crackers (x5) •½ Sports Bar 	 Small Baked potato (plain) 1C whole grain cereal + milk Whole grain bagel/bread + p.b. 1C greek yogurt w/ berries & honey Fruit/Veggie Yogurt smoothie 1C Oatmeal + milk + fruit Toast (1 slice) + Fresh fruit Sports Bar WATER! 	
•WATER!		



Recovery Fuel

EASY TRAINING – Regular Meals Are Good Enough 5 Athlete's Plates, spread throughout the day

MODERATE TRAINING (NEW!)

WHFN? Within 2-hours WHAT? Athlete's Plate

HARD TRAINING and RACING

Within 30-minutes WHFN?

WHAT? Mostly Carbohydrates, Some Protein (4:1g)

AND

WHEN? Within 2-hours WHAT? Athlete's Plate

Within 30-minutes

Within 2 hours

ATHLETE'S PLATE • Mostly Carbs, Some Protein (4:1)

- Chocolate milk
- •½ bagel + hummus
- •½ turkey or PBJ sandwich
- Pretzels + hummus
- •FF or LF yogurt w/ fruit
- Trail Mix
- •WATER!





CARB, PROTEIN OR FAT? Read the label. Do the Math.



Serving Size



Total Calories



1g Fat = 9 cals



1g Carb = 4 cals



1g Protein = 4 cals



Almond Nutri Serving Size 1 ounce		
or about 23 almonds	(209)	
Amount Per Serving		
Calories 160 Calories	from Fat 120	
	% Daily Value	
Total Fat 14g	22%	
Saturated Fat 1g	5%	
Polyunsaturated Fat	3.5g	
Monounsaturated Fat	1 9g	
Cholesterol 0mg	0%	
Sodium 0mg	0%	
Potassium 200mg	6%	
Total Carbohydrate 6	2%	
Dietary Fiber 3g	12%	
Sugars 1g		
Protein 6g		
Vitamin A 0%	Vitamin C 0%	
Calcium 8%	Iron 6%	
Vitamin E 35%	Folate 4%	
Magnesium 20% Ph	osphorus 15%	



STAY HYDRATED



BEFORE

2-3 Hours Before Exercise - Drink 17 to 20 ounces of water 20-30 Minutes Before Exercise or During Warm-up - Drink 8 ounces of water

DURING

Every 20 min During - Drink 7 to 10 ounces of water

AFTER

< 30 Minutes After Exercsie - Drink 8 ounces of water



HOW MUCH DO I NEED?!?



YOUR NUTRITION NEEDS DEPEND ON YOU!

Lisa's Training Range Mike's Training Range

TOTAL ENERGY (cal)	CARBOHYDRATES (g) 60-70%	PROTEIN (g) 15-20%	FAT (g) 20-25%
2600	390-455	98-130	58-72
2700	405-473	101-135	60-75
2800	420-490	105-140	62-78
2900	435-508	109-145	64-81
3000	450-525	113-150	67-83
3100	465-543	116-155	69-86
3200	480-560	120-160	71-89
3300	495-578	124-165	73-92
3400	510-595	128-170	76-94
3500	525-613	131-175	78-97
3600	540-630	135-180	80-100
3700	555-648	139-185	82-103
3800	570-665	143-190	84-106
3900	585-683	146-195	87-108
4000	600-700	150-200	89-111



Fine Tuning My Nutrition?

Consider ALL of these indicators:

- How am I performing in the pool/dryland?
- How is my general energy level?
- When do I get tired during practice?
- When do I get hungry during practice?
- How is my mood?
- How is my body composition changing?
- How is my weight changing?

SPORTS NUTRITION INFO:

- USA Swimming Nutrition
- USOC Nutrition



