



# THE REGULATION OF MULTI-SEMESTER ATHLETES

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# THANK YOU

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- Shaun Huls, Josh Hingst, Keith Gray, Ben Wagner, Mike Minnis, and the Philadelphia Eagles Performance Staff
- Princeton University Performance Staff
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- All of our Presenters
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# THE REGULATION OF MULTI-SEMESTER ATHLETES

- WHAT THIS PRESENTATION IS:
  - A LOOK INTO THE COMPLEXITIES OF TRAINING THE MULTI-SEMESTER ATHLETE
  - A VIEW INTO HOW WE USE AUTOREGULATION AT PRINCETON TO MAXIMIZE ATHLETIC POTENTIAL
  - A COMPLIMENT TO TECHNICAL MASTERY
  - A REWARD FOR MAXIMAL EFFORT
  - GIVES US A BETTER INSIGHT INTO WHAT OUR ATHLETES ARE DOING WHEN THEY AREN'T WITH US
  - HOW EFFECTIVE IS OUR PROGRAMMING FROM A HOLISTIC VIEW

# WHY

- Majority of strength and conditioning coaches work with teams whose seasons span multiple semesters
  - Principles are not unique to “single semester” sports or multi-sport athletes
- Limited opportunities to assess if our athletes are getting stronger.
  - Assess the needs of the sport, and how the strength program can compliment the season
- Maximize the potential of each day.
- Over-Training can happen at a higher rate if the “whole athlete” is not assessed.

# PRINCETON UNIVERSITY

37 Varsity Sports

5 Strength Coaches

## WHO I WORK WITH:

- Men's Basketball
- Baseball
- Wrestling
- Men's Swimming
- Men's and Women's Diving
- Men's and Women's Water Polo

## ISSUES FACED:

- High Academic Demand
- Frequent Training Interruptions
- Under-Staffed
- Coach and Athlete Communication
- Athlete Self-Regulation



# HOW DO WE ATTACK OUR ISSUES EFFECTIVELY?

## ISSUES FACED:

- **High Academic Demand**
- **Frequent Training Interruptions**
- ~~Under Staffed~~
- Coaches' and Athlete Communication
- Athlete Self-Regulation



# AUTOREGULATION

## WHAT IS IT?

*“A Structured approach for embedding a respect for individual variation within a program.”- Eric Helms*



# ***AUTOREGULATION- MAXIMIZING THE POTENTIAL OF EACH TRAINING SESSION!***

## **Autoregulation 1:**

- Subjective:
  - RPE?
  - RIR- Gas in the tank
  - QUESTIONNAIRE/SURVEY

## **Autoregulation 2:**

- Objective:
  - FAILURE SETS
    - HIT
    - 5/3/1
    - APRE
  - PERCENTAGE MANIPULATION
  - JUMP TESTING- ME/RE
  - VBT
  - HEART RATE

# AUTOREGULATION- SUBJECTIVE

- RPE
  - WHAT IS IT?
- RIR
  - WHAT IS IT?
  - HOW?
- SURVEY

**Borg's Rating of Perceived Exertion (RPE) Scale**

Perceived Exertion Rating	Description of Exertion
6	No exertion. Sitting & resting
7	Extremely light
8	
9	Very light
10	
11	Light
12	
13	Somewhat hard
14	
15	Hard
16	
17	Very hard
18	
19	Extremely hard
20	Maximal exertion

**RPE Scale Based On Repetitions In Reserve**

10	Could not do more reps or load
9.5	Could not do more reps, could do slightly more load
9	Could do 1 more repetition
8.5	Could definitely do 1 more repetition, chance at 2
8	Could do 2 more repetitions
7.5	Could definitely do 2 more repetitions, chance at 3
7	Could do 3 more repetitions
5-6	Could do 4 to 6 more repetitions
1-4	Very light to light effort

# AUTOREGULATION- SUBJECTIVE SURVEYS

- ALLOWS COMMUNICATION BETWEEN ATHLETE AND COACH
- *IF ADMINISTERED CONSISTENTLY, SUBJECTIVE MEASURES HAVE BEEN FOUND TO BE MORE EFFECTIVE THAN OBJECTIVE MEASUREMENTS IN RESPONSE TO BOTH ACUTE AND CHRONIC TRAINING LOADS\**
  - IF ADMINISTERED CONSISTENTLY WITH OBJECTIVE DATA, CAN POINT US FURTHER IN THE RIGHT DIRECTION!

Princeton Men's Basketball  
All Players

BROWSE

Overview

Roster

SMS Reminders

Groups & Positions

Edit Training Loads

Kiosk

Charts

Historical Data

READINESS BREAKDOWN



Decrease of 1  
17/17 submitted

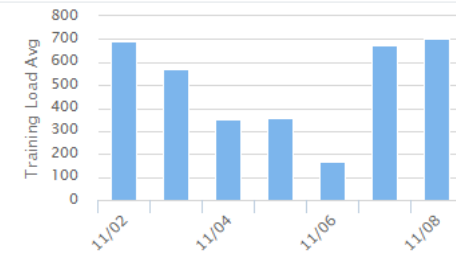


G 77 | F 73 | C 79

Overview | Readiness | Training Loads

TRAINING LOADS

11-08: Cumulative  
# of Players: 12  
Training Load Avg: 703  
RPE Avg: 5.6  
Duration Avg: 126 min



PLAYER	POS	READINESS			SLEEP	TRAINING LOAD		RECOVERY	SITE	HYDRATION	WEIGHT	✉
		SCORE	+/-	TREND	HOURS	11/8	11/7	POINTS	SORENESS	SCORE	VALUE	
Brennan, Alec	F	50	↓ 20		7.0	960 (1)	840 (1)	7	Critical			
Morales, Jose	G	63	--		5.0	600 (1)		9	Mod-High		160.0	
Reynoso-Avila, Vittorio	G	65	--		4.0	600 (1)		13	Critical		203.0	
Barnes, Elijah	F	67	↓ 5		6.5			0	Low			
Schwieger, Ryan	G	68	--		8.0		600 (1)	10	Low-Mod		202.0	
Young, Aaron		70	↓ 5		7.0	360 (1)	540 (2)	12	Critical		178.0	
Gladson, Will	C	71	0		8.0			0	Critical			
Bramalge, Noah	F	72	↓ 14		7.5			0	Low-Mod		220.0	
Berbari, Elias	G	73	0		7.0	1020 (2)		9	Mod		183.0	
Desrosiers, Jerome	F	73	0		8.0	840 (1)	900 (2)	12	Critical		226.0	
Stephens, Myles	F	80	--		8.0	600 (1)		9	Low-Mod		207.0	
Bagin, Charlie	G	84	↑ 12		7.0	360 (1)		7			162.0	
Much, Sebastian	F	85	--		7.0			0			225.0	
Bell, Amir	G	87	↓ 10		8.0	600 (1)	600 (1)	11			194.0	
Aririguzoh, Richmond	C	87	↑ 2		7.0	900 (2)	700 (1)	0	Low		230.8	
	F	87	↑ 39		8.0	720 (1)	600 (1)	11	Low-Mod		200.0	

Last Name

Your answer

How much sleep did you get last night?

- <5
- 5-6 Hours
- 6-7 Hours
- 7-8 Hours
- 8-9 Hours
- 9-10 Hours
- 10+ Hours

How many times did you wake up last night?

- 1 Time
- 2 Times
- 3 Times
- 4 Times
- 5+ Times

Did you turn all electronics off/blue-light reduced?

- Yes
- No

Approx. how much water did you drink today? (1 cup= 8oz., 1 Water Bottle= 16oz., 1 Gallon= 128oz.)

## RECOMMENDED WATER INTAKE

BODY WT	OUNCES
160-179	80-90
180-199	90-100
200-219	100-110
220-239	110-120
240-259	120-130
260-279	130-140
280-300	140-150

- <80oz.
- 80-100oz.
- 100-120oz.
- 120-140oz.
- 140-160oz.
- 160+ oz.

Current stress level? 1- Not Stressed 5- Extremely Stressed

- 1
- 2
- 3
- 4
- 5

Soreness Level: 1- Not Sore 5- Extremely Sore



# AUTOREGULATION- OBJECTIVE

- FAILURE SETS:
  - HIT
  - 5/3/1 OR JUGGERNAUT
  - APRE
- WHY?
  - Easy to implement
  - Emphasizes basic/multi-joint movements
  - Slow-burn progression
  - Praises **EFFORT** not result
- Has a high carry-over with RIR subjectivity
  - [In-Season](#)
  - [Off-Season](#)

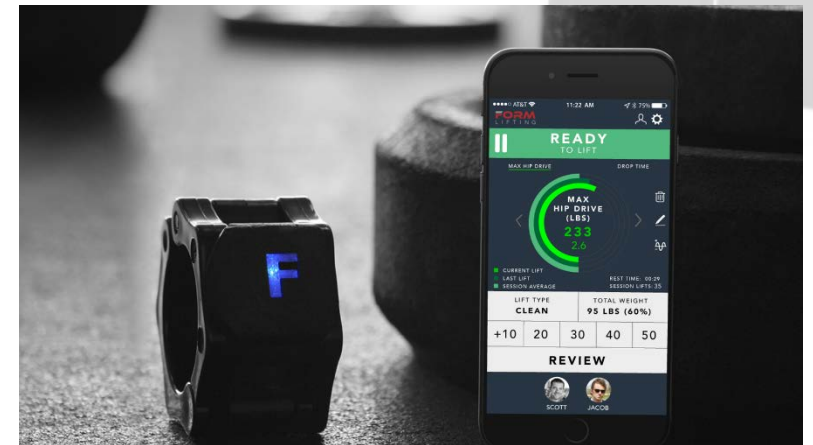
# AUTROREGULATION- OBJECTIVE

- PERCENTAGE MANIPULATION
  - 1 RM IS HIGHLY VARIABLE
    - *In a given day your 1RM can fluctuate  $\pm 18\%^{**}$*
    - Can be higher with weight cutting sports
    - The “FLOAT” or “CUT”

**WRESTLING CLEAN CHART**

1RM	3	3	CUT 1	3x2 WORK	BIG 1
165	100	120	120	135	150
225	135	150	160	160	205
205	125	135	145	145	185
240	145	160	170	170	220
205	135	135	145	145	185
210	135	140	150	150	190
225	135	150	160	160	205
210	135	140	150	150	190
205	125	135	145	145	185
205	135	135	145	145	185
240	145	160	170	170	220
240	145	160	170	170	220
185	115	125	130	130	170
265	160	175	190	190	240
185	135	125	130	130	170
205	135	135	145	145	185
175	105	115	125	125	160
245	150	160	175	175	225
230	140	150	165	165	210

# VELOCITY-BASED TRAINING



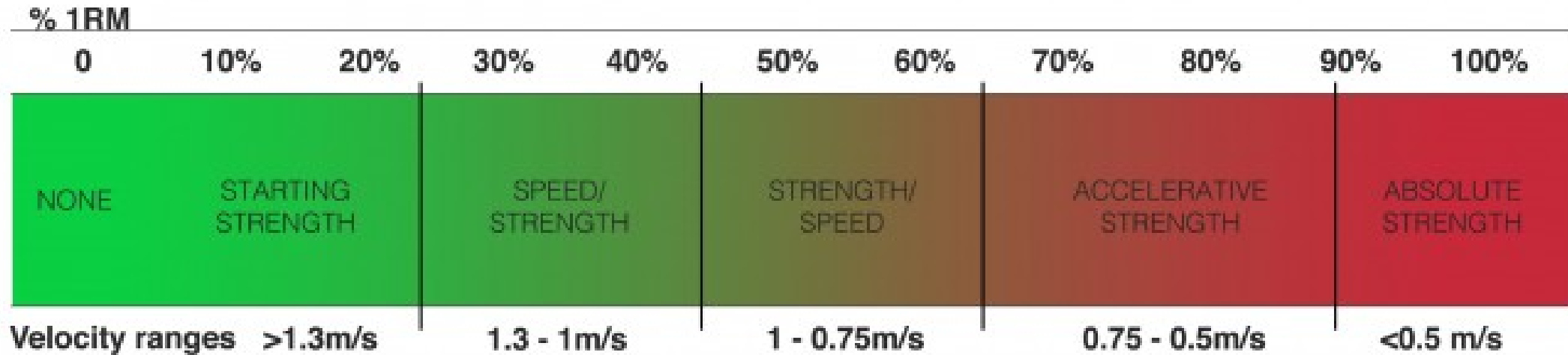
# VELOCITY-BASED TRAINING (VBT) WHY AND WHAT?

- VBT- WHAT IT'S USED FOR
  - USES ESTABLISHED VELOCITY ZONES AT SUBMAXIMAL WEIGHTS TO COORELATE WITH 1RM
  - ALLOWS FOR A MORE IN-DEPTH LOOK AT **DAILY** INTENSITIES
    - ALLOWS FOR INTRAWORKOUT ADJUSTMENTS VIA FEEDBACK
    - ALLOWS FOR LONGITUDINAL PROGRESSION
  - PROVIDES INSTANT FEEDBACK
  - PROMOTES COMPETITION AND EFFORT
  - PROMOTES ATHLETE AUTONOMY
- VBT- WHAT ITS **NOT** USED FOR
    - TIP OF THE ICEBERG
    - COACH COACHES-MONITOR MONITORS
      - All device measures is speed, YOU have to manage the integrity of the movement
      - NOT an extension of ego



# AUTOREGULATION- OBJECTIVE VBT

## VELOCITY ZONES





# VBT- HOW DO WE USE IT?

## PRINCETON TIGER STRENGTH

PHASE: ROAD TO OMAHA	NAME _____																			
SPORT: BASEBALL																				
DAY 2																				
DATE	SOUTH CAROLINA					GEORGETOWN					RUTGERS/CORNELL					BROWN				
EXERCISE	REST	%	SPEED .7-.8	WT	REPS	%	SPEED .7-.8	WT	REPS	%	SPEED .7-.8	WT	REPS	%	SPEED .7-.8	WT	REPS			
SC/GEORGETOWN		55%			3	60%			3	50%			3	55%			3			
SQUAT		55%			3	60%			3	50%			3	55%			3			
RUTGERS/CORNELL/BROWN		55%			3	60%			3	50%			3	55%			3			
WIDE-STANCE SSB BOX SQUAT USE TENDO'S		55%			3	60%			3	50%			3	55%			3			
SEE WEEK:		DB ALT. BENCH PRESS				BB INCLINE (TENDO'S) SPEED .7-.8				DB ALT. BENCH PRESS				BB INCLINE (TENDO'S) SPEED .7-.8						
					4ea				4				4ea				4			
					4ea				4				4ea				4			
					4ea				4				4ea				4			
					4ea				4ea				3ea				3ea			
					4ea				4ea				3ea				3ea			
					4ea				4ea				3ea				3ea			
					6ea				6ea				6ea				5ea			
					6ea				6ea				6ea				5ea			
					6ea				6ea				6ea				5ea			
					3ea				3ea				3ea				3ea			
					3ea				3ea				3ea				3ea			
					3ea				3ea				3ea				3ea			
DEADBUG VARIATION		FOAM ROLL ISO SQUEEZE x8ea				HOLLOW ROCs x20				BAND UPPER BODY x8ea				HOLLOW ROCs x20						
WEEKS 1/3: GHR					8				4+4				6				4+4			
WEEKS 2/4: SB STRAIGHT-LEG BRIDGE					8				4+4				6				4+4			
+LEG CURL w/:03 ECCENTRIC					8				4+4				6				4+4			
DB SHRUGS					12				12				12				12			
NO-\$ BAND SPREADERS					12				12				12				12			
PLATE PINCH					2x				2x				2x				2x			
RACK PINCH					1x:10				1x:10				1x:10				1x:10			
PLATE/DB PLANK PASS					2x6ea				2x6ea				2x6ea				2x6ea			

# HEART RATE

- POLAR TEAM PRO 2
  - MONITOR TRAINING LOAD SCORES
    - TRAINING LOAD BLOCKS LEVEL 1-5
  - GPS
    - IN-SEASON
    - OFF-SEASON

**POLAR**®

***LISTEN TO YOUR BODY***

Player name	HR max [bpm]	HR max [%]	Recovery time [h]	Time in HR zone 1 (50 - 59 %)	Time in HR zone 2 (60 - 69 %)	Time in HR zone 3 (70 - 79 %)	Time in HR zone 4 (80 - 89 %)	Time in HR zone 5 (90 - 100 %)	Total distance [yd]	Calories [kcal]	TOTAL TIME	TOTAL TIME SPENT IN ZONES 4 NAD 5	PERCENTAGE OF PRACTICE SPENT
	194	92	41.0	0:29:30	0:12:21	0:14:11	0:32:51	0:03:51	5355	1484	1:45:52	0:36:42	0.35
	187	94	6.4	0:47:24	0:20:44	0:07:17	0:08:34	0:02:17	1582	840	1:45:52	0:10:51	0.10
	198	97	101.5	0:12:11	0:21:14	0:23:30	0:38:40	0:18:31	5971	1741	1:45:52	0:57:11	0.54
	166	83	2.8	0:12:22	0:06:23	0:09:24	0:01:58	0:00:00	2138	524	1:45:52	0:01:58	0.02
	165	83	2.4	0:09:24	0:06:38	0:08:23	0:02:12	0:00:00	2563	592	1:45:52	0:02:12	0.02
	180	90	42.0	0:22:53	0:28:50	0:25:31	0:30:50	0:00:05	4904	1661	1:45:52	0:30:55	0.29
	196	96	69.0	0:15:19	0:17:12	0:13:32	0:29:46	0:21:03	5446	1392	1:45:52	0:50:49	0.48
	181	91	20.0	0:20:27	0:22:57	0:34:11	0:23:30	0:00:51	6524	1492	1:45:52	0:24:21	0.23
	148	74	0.1	0:02:15	0:00:03	0:00:04	0:00:00	0:00:00	438	387	1:45:52	0:00:00	0.00
	191	97	60.7	0:22:21	0:18:35	0:23:37	0:33:43	0:09:15	6986	1604	1:45:52	0:42:58	0.41
	192	96	48.3	0:22:41	0:21:19	0:24:26	0:22:02	0:15:21	6752	1244	1:45:52	0:37:23	0.35
	178	89	11.1	0:28:27	0:15:33	0:20:39	0:17:51	0:00:00	5277	1199	1:45:52	0:17:51	0.17
	188	94	17.9	0:37:33	0:11:50	0:12:07	0:14:05	0:04:21	3474	1052	1:45:52	0:18:26	0.17
	186	93	27.2	0:15:03	0:32:18	0:32:23	0:30:49	0:02:00	5760	1576	1:45:52	0:32:49	0.31
	189	95	45.5	0:25:51	0:25:42	0:21:28	0:28:48	0:06:13	5143	1500	1:45:52	0:35:01	0.33
	189	95	48.7	0:22:51	0:21:09	0:19:22	0:35:19	0:07:11	6307	1335	1:45:52	0:42:30	0.40

# HOW DO WE MOVE FORWARD AT PRINCETON

- THIS SPRING:
  - USING VBT TO TRACK PITCHING VELOCITY
- FUTURE:
  - USING VBT TO CHART MAX E LIFTS
  - USING VBT TO REGULATE FAILURE SETS INSTEAD OF BAR LOAD
  - BUILDING QUESTIONNAIRE DATA AND LOOKING AT INJURY RATE DURING EXAM TIMES FOR WRESTLING
  - USING HEART RATE DATA TO ESTABLISH TRAINING ZONES FOR SUMMER TRAINING FOR MEN'S BASKETBALL
  - USING DAILY VERTICAL JUMP TESTING TO ESTABLISH OFF-SEASON AVERAGES AND THEN UTILIZING A DROP-OFF PERCENTAGE TO DICTATE VOLUME IN-SEASON



QUESTIONS?



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THANK YOU!

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# PRINCETON TIGER STRENGTH

PHASE: IVY SEASON	MAXES				PHASE: IVY SEASON	MAXES			
SPORT: MBBALL	BENCH	SQUAT	DL	FS	SPORT: MBBALL	BENCH	SQUAT	DL	FS
DAY 1					DAY 2				
DATE					DATE				
EXERCISE	REST	%	WT	REPS	EXERCISE	REST	%	WT	REPS
CLEAN				3	HIP CLEAN				3
				3					3
				3					3
				3					3
				3					3
ME- LOWER BODY VARIATION TB RACK PULL	RIR 9- LEAVE 1 IN THE TANK!				BB BENCH PRESS	RIR 7.5- LEAVE 2 IN THE TANK!			
		60%		5			65%		5
		70%		3			75%		3
		80%		4-8			85%		4-8
PULL-UPS				5	KB BAND ASSISTED LATERAL LUNGE				3ea
				5					3ea
<i>pair w/</i>				5					3ea
DB/KB RACK REVERSE LUNGES				3ea	WTD. SIT-UPS				8
				3ea					8
<i>pair w/</i>				3ea					8
SUPINE PALOFF PRESS HOLD + PRESS				:20+ 6ea	DB SA ROW				5ea
				:20+ 6ea					5ea
				:20+ 6ea					5ea
DIPS				8	BB LANDMINE JAMMER				4
				8					4
				8	<i>pair w/</i>				4
HIP VARIATION				8	SL REVERSE HYPERS				6ea
				8					6ea
				8					6ea
				8	TRX FACE-PULLS				2x12
MOD-SIDE PLANK TOP-LEG ABDUCTION				3x w/:06ECC.	BAND TKE		1" OB		2x8ea
				3x w/:06ECC.	WTD. PLANK				2x:30
				3x w/:06ECC.					

RPE Scale Based On Repetitions In Reserve	
10	Could not do more reps or load
9.5	Could not do more reps, could do slightly more load
9	Could do 1 more repetition
8.5	Could definitely do 1 more repetition, chance at 2
8	Could do 2 more repetitions
7.5	Could definitely do 2 more repetitions, chance at 3
7	Could do 3 more repetitions
5-6	Could do 4 to 6 more repetitions
1-4	Very light to light effort



# PRINCETON TIGER STRENGTH

PHASE: GET BIG SEASON	MAXES				PHASE: GET BIG SEASON	MAXES				PHASE: GET BIG SEASON	MAXES			
SPORT: MSWIMMING	BENCH	SQUAT	DL	FS	SPORT: MSWIMMING	BENCH	SQUAT	DL	FS	SPORT: MSWIMMING	BENCH	SQUAT	DL	FS
DAY 1					DAY 2					DAY 3				
DATE					DATE					DATE				
EXERCISE	REST	%	WT	REPS	EXERCISE	REST	%	WT	REPS	EXERCISE	REST	%	WT	REPS
<b>SQUAT</b> <i>pair first 3 sets w/ BAND ANKLE MOBILITY x8ea INCLINE Y-TO-W'S x5ea</i>		50%		3	<b>BB BENCH PRESS</b> <i>pair first 3 sets w/ PEC TIE-IN FOAM ROLL x10-20 CAT+CAMEL+4-pt. SUPERMAN x 3ea</i>		55%		3	<b>TB DEADLIFT</b>		50%		3
		55%		1			65%		5			55%		1
		65%		5			75%		5			65%		5
		75%		5			85%		5+			75%		5
		85%		5+	<b>BB RDL</b>				6			85%		5+
<b>PULL-UPS</b>				5					6	<b>DB/KB NG ALT. BENCH PRESS</b>				6ea
				5					6					6ea
<i>pair w/</i>				5	<i>pair w/</i>				6	<i>pair w/</i>				6ea
<b>DB/KB RACK REVERSE LUNGES</b>				3ea	<b>WTD. SIT-UPS</b>				8	<b>WTD. PLANKS</b>				:30
				3ea					8					:30
<i>pair w/</i>				3ea	<i>pair w/</i>				8	<i>pair w/</i>				:30
<b>SUPINE PALOFF PRESS HOLD + PRESS</b>				:20+ 6ea	<b>NARROW-GRIP PUSH-UPS</b>				6	<b>PIGEON HOLD</b>				:15ea
				:20+ 6ea					6					:15ea
				:20+ 6ea					6					:15ea
<b>DIPS</b>				8	<b>DB SA ROW</b>				8ea	<b>BB SPLIT SQUAT</b>				3ea
				8					8ea					3ea
				8	<i>pair w/</i>				6ea	<i>pair w/</i>				3ea
<b>HIP VARIATION</b>				SLIDE LEG CURL	<b>BW SL SQUAT-TO-BENCH</b>				6ea	<b>DB INCLINE ROW</b>				6
				8					6ea					6
				8					2x12	<i>pair w/</i>				6
				8	<b>TRX FACE-PULLS</b>				2x12	<b>TOWEL KARATE-KID</b>				6ea
<b>MOD-SIDE PLANK TOP-LEG ABDUCTION</b>				3x w/:06ECC.	<b>BAND TKE</b>				1" OB					6ea
				3x w/:06ECC.	<b>BENT-KNEE V-UPS</b>				2x25					6ea
				3x w/:06ECC.						<b>SEATED PLATE FRONT RAISE</b>				8
<b>BANDED SHOULDER WALL SLIDES</b>				6										8
				6						<i>pair w/</i>				8
<i>pair w/</i>				6						<b>REVERSE HYPERS</b>				12
<b>BAND RDL+ROW</b>				8										12
				8										
				8										
				8						<b>ARM FARM</b>				BB CURLS 2x8
														BAND TRICEP 2x12
														EXTENSIONS

RPE Scale Based On Repetitions In Reserve	
10	Could not do more reps or load
9.5	Could not do more reps, could do slightly more load
9	Could do 1 more repetition
8.5	Could definitely do 1 more repetition, chance at 2
8	Could do 2 more repetitions
7.5	Could definitely do 2 more repetitions, chance at 3
7	Could do 3 more repetitions
5-6	Could do 4 to 6 more repetitions
1-4	Very light to light effort