

# Adult Football Helmet Detailed Ratings

May 2012

A total of 15 adult football helmet models that have been evaluated using the STAR evaluation system are included in the May 2012 Virginia Tech Helmet Ratings™. All 15 helmets included in the ratings have been made available to consumers at the time of publication. Helmets with lower STAR values provide a reduction in concussion risk compared to helmets with higher STAR values. Based on this, the best overall rating of 5 Stars has the lowest STAR value. Group rankings are differentiated by pre-determined thresholds.

The tables below provide additional information describing how much each helmet cost and the year each helmet was manufactured. Three helmets of each model were evaluated using the STAR evaluation. The overall STAR value is an average of the three helmets' individual STAR values.

<b>Riddell 360</b>		<b>Best Available: ★★★★★</b>				
	<b>Sample</b>	<b>Size</b>	<b>Year Manufactured</b>	<b>Price Paid</b>	<b>STAR Value</b>	<b>Overall STAR</b>
	1	Adult Large	2012	\$374.95	0.241	<b>0.239</b>
	2	Adult Large	2012	\$374.95	0.237	
	3	Adult Large	2012	\$374.95	0.239	

<b>Rawlings Quantum Plus</b>		<b>Best Available: ★★★★★</b>				
	<b>Sample</b>	<b>Size</b>	<b>Year Manufactured</b>	<b>Price Paid</b>	<b>STAR Value</b>	<b>Overall STAR</b>
	1	Adult Large	2012	\$250.00	0.259	<b>0.245</b>
	2	Adult Large	2012	\$250.00	0.243	
	3	Adult Large	2012	\$250.00	0.234	

<b>Riddell Revolution Speed</b>		<b>Best Available: ★★★★★</b>				
	<b>Sample</b>	<b>Size</b>	<b>Year Manufactured</b>	<b>Price Paid</b>	<b>STAR Value</b>	<b>Overall STAR</b>
	1	Adult Large	2011	\$243.99	0.303	<b>0.297</b>
	2	Adult Large	2011	\$243.99	0.278	
	3	Adult Large	2011	\$243.99	0.309	

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## Schutt ION 4D

Very Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2010	\$259.95	0.391	0.351
2	Adult Large	2011	\$259.95	0.337	
3	Adult Large	2011	\$259.95	0.324	

## Schutt DNA Pro +

Very Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2011	\$169.95	0.337	0.352
2	Adult Large	2011	\$169.95	0.355	
3	Adult Large	2011	\$169.95	0.364	

## Rawlings Impulse

Very Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2012	\$159.00	0.352	0.355
2	Adult Large	2012	\$159.00	0.366	
3	Adult Large	2012	\$159.00	0.347	

## Xenith X1

Very Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2010	\$299.99	0.397	0.356
2	Adult Large	2011	\$299.99	0.350	
3	Adult Large	2011	\$299.99	0.322	

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## Riddell Revolution

Very Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2010	\$182.99	0.355	<b>0.362</b>
2	Adult Large	2011	\$182.99	0.364	
3	Adult Large	2011	\$182.99	0.367	

## Rawlings Quantum

Very Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2012	\$200.00	0.390	<b>0.364</b>
2	Adult Large	2012	\$200.00	0.339	
3	Adult Large	2012	\$200.00	0.361	

## Riddell Revolution IQ

Very Good:



Sample	Size	Date Purchased	Price Paid	STAR Value	Overall STAR
1	Adult Large	2011	\$222.99	0.366	<b>0.369</b>
2	Adult Large	2011	\$222.99	0.367	
3	Adult Large	2011	\$222.99	0.375	

## Schutt Air XP

Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2011	\$179.95	0.442	<b>0.434</b>
2	Adult Large	2011	\$179.95	0.423	
3	Adult Large	2011	\$179.95	0.437	

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## Xenith X2

Good:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2012	\$220.00	0.499	<b>0.477</b>
2	Adult Large	2012	\$220.00	0.482	
3	Adult Large	2012	\$220.00	0.451	

## Schutt Air Advantage

Adequate:



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2011	\$159.99	0.680	<b>0.678</b>
2	Adult Large	2011	\$159.99	0.749	
3	Adult Large	2011	\$159.99	0.604	

## Riddell VSR4

Marginal:



Sample	Size	Note:	STAR Value	Overall STAR
1	Adult Large	Used helmets were tested to provide a reference	0.843	<b>0.791</b>
2	Adult Large		0.786	
3	Adult Large		0.744	

## Adams A2000 Pro Elite

Not Recommended:

NR



Sample	Size	Year Manufactured	Price Paid	STAR Value	Overall STAR
1	Adult Large	2010	\$159.95	1.620	<b>1.700</b>
2	Adult Large	2011	\$199.95	1.865	
3	Adult Large	2011	\$199.95	1.615	

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**Note:** Any player in any sport can sustain a head injury with even the very best head protection. This analysis is based on data trends and probabilities, and therefore a specific person's risk may vary. This variation is likely dominated by genetic differences, health history, and impact factors such as muscle activation.