				BALL AWARD WINN	IERS Price Expectations Survey	
_	h	-	-			
		Year	ST PLACE - OUT	STANDING PERFORM	VIANCE	
	Horizon	Expectations Were Formulated	Pa	nelist	Affiliation	
	5 Year 2014 (2014-2018)		Rajeev	v Dhawan	Georgia State University	
	4 Year	2014	Ingo Winzer		Local Market Monitor	
(2015-2018)	2015	Rajeev Dhawan		Georgia State University	
		2014	Ingo Winzer		Local Market Monitor	
(3 Year (2016-2018)	2015	Rajeev Dhawan		Georgia State University	
		2016	Joel Naroff		Naroff Economic Advisors	
	2 Year (2017-2018)	2014	Ingo Winzer		Local Market Monitor	
		2015	Rajeev Dhawan		Georgia State University	
(2016	Joel Naroff		Naroff Economic Advisors	
		2017	Joel Naroff		Naroff Economic Advisors	
	1 Year (2018)	2018	Rajeev	v Dhawan	Georgia State University	
			OUTSTANI	DING CONSISTENCY		
	For the 11 performance categories:			Affiliation		
	Number of p-10 Rankings*	Number of Top-5 Rankings**	Number of <u>Top-3 Rankings</u>	Fallelist	Amiaton	
	11	11	8	Joel Naroff***	Naroff Economic Advisors	
	11	3	1	Jim Kleckley	East Carolina University	
	10	5	1	Michael Englund	Action Economics	
	9	9	9	Ingo Winzer***	Local Market Monitor	
	8	8	8	Rajeev Dhawan***	Georgia State University	
	7	2		Robert Dye	Comerica Bank	
	6	-	-	Peter Linneman	American Land Fund	
	5	3	-	Paul Carrillo	George Washington University	
	5	3	-	Mark Fleming	First American Financial Corporation	
	4	4	4	Edward Pinto	American Enterprise Institute	
	4	3	1	Grant Thrall	American Real Estate Society	
*Incl	udes Top-5 and Top-	3 ranking counts. **Include:	s Top-3 ranking counts. *	**Also a First Place winner.		
ave had to submit forecast data for ng Methodology	each of the four quar	terly surveys that Pulsenomics of survey editions in each calendar Time Horizon 2018 (1 year horizon) 2017-2018 (2 year horizon)	conducted in 2015).	actual (Q4/Q4, or Dec/Dec) home pri Expectations Vintage(s) 2018 2014, 2015, 2016, 2017	given year's set of expectations data (e.g., to be eligible for a 2017 award pertaining r ice percentage changes for the five time horizons that ended in 2017:	<pre>xpectations</pre>
		2016-2018 (3 year horizon) 2015-2018 (4 year horizon)		2014, 2015, 2016 2014, 2015		
		2014-2018 (5 year horizon)		2014	rvey benchmark) using the index values published on 1/24/2019.	