

# PS1 MeanObject table fields

The starting point for the PS1 data archive is at [Pan-STARRS1 data archive home page](#).

**Description:** Contains the mean photometric information for objects based on the single epoch data, calculated as described in Magnier et al (2013). To be included in this table, an object must be bright enough to have been detected at least once in an individual exposure. PSF, Kron (1980), and aperture magnitudes and statistics are listed for all filters. References: Kron, R. G. 1980, ApJS, 43, 305; Magnier, E. A., Schlafly, E., Finkbeiner, D., et al. 2013, ApJS, 205, 20.

Name	Unit	Data Type	Size	Default Value	Description
objID	dimensionless	BIGINT	8	NA	Unique object identifier.
uniquePspOBid	dimensionless	BIGINT	8	NA	Unique internal PSPS object identifier.
gQfPerfect	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from g filter detections.
gMeanPSFMag	AB magnitudes	REAL	4	-999	Mean PSF magnitude from g filter detections.
gMeanPSFMagErr	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from g filter detections.
gMeanPSFMagStd	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from g filter detections.
gMeanPSFMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from g filter detections.
gMeanPSFMagMin	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from g filter detections.
gMeanPSFMagMax	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from g filter detections.
gMeanKronMag	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from g filter detections.
gMeanKronMagErr	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from g filter detections.
gMeanKronMagStd	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from g filter detections.
gMeanKronMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from g filter detections.
gMeanApMag	AB magnitudes	REAL	4	-999	Mean aperture magnitude from g filter detections.
gMeanApMagErr	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from g filter detections.
gMeanApMagStd	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from g filter detections.
gMeanApMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from g filter detections.
gFlags	dimensionless	INT	4	0	Information flag bitmask for mean object from g filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
rQfPerfect	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from r filter detections.
rMeanPSFMag	AB magnitudes	REAL	4	-999	Mean PSF magnitude from r filter detections.
rMeanPSFMagErr	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from r filter detections.
rMeanPSFMagStd	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from r filter detections.
rMeanPSFMagNpt	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from r filter detections.
rMeanPSFMagMin	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from r filter detections.
rMeanPSFMagMax	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from r filter detections.
rMeanKronMag	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from r filter detections.

<b>rMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from r filter detections.
<b>rMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from r filter detections.
<b>rMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from r filter detections.
<b>rMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from r filter detections.
<b>rMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from r filter detections.
<b>rMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from r filter detections.
<b>rMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from r filter detections.
<b>rFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from r filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
<b>iQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from i filter detections.
<b>iMeanPSFMag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from i filter detections.
<b>iMeanPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from i filter detections.
<b>iMeanPSFMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from i filter detections.
<b>iMeanPSFMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from i filter detections.
<b>iMeanPSFMagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from i filter detections.
<b>iMeanPSFMagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from i filter detections.
<b>iMeanKronMag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from i filter detections.
<b>iMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from i filter detections.
<b>iMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from i filter detections.
<b>iMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from i filter detections.
<b>iMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from i filter detections.
<b>iMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from i filter detections.
<b>iMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from i filter detections.
<b>iMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from i filter detections.
<b>iFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from i filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
<b>zQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from z filter detections.
<b>zMeanPSFMag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from z filter detections.
<b>zMeanPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from z filter detections.
<b>zMeanPSFMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from z filter detections.
<b>zMeanPSFMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from z filter detections.
<b>zMeanPSFMagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from z filter detections.
<b>zMeanPSFMagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from z filter detections.
<b>zMeanKronMag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from z filter detections.

<b>zMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from z filter detections.
<b>zMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from z filter detections.
<b>zMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from z filter detections.
<b>zMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from z filter detections.
<b>zMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from z filter detections.
<b>zMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from z filter detections.
<b>zMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from z filter detections.
<b>zFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from z filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .
<b>yQfPerfect</b>	dimensionless	REAL	4	-999	Maximum PSF weighted fraction of pixels totally unmasked from y filter detections.
<b>yMeanPSFMag</b>	AB magnitudes	REAL	4	-999	Mean PSF magnitude from y filter detections.
<b>yMeanPSFMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean PSF magnitude from y filter detections.
<b>yMeanPSFMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of PSF magnitudes from y filter detections.
<b>yMeanPSFMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean PSF magnitude from y filter detections.
<b>yMeanPSFMagMin</b>	AB magnitudes	REAL	4	-999	Minimum PSF magnitude from y filter detections.
<b>yMeanPSFMagMax</b>	AB magnitudes	REAL	4	-999	Maximum PSF magnitude from y filter detections.
<b>yMeanKronMag</b>	AB magnitudes	REAL	4	-999	Mean Kron (1980) magnitude from y filter detections.
<b>yMeanKronMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean Kron (1980) magnitude from y filter detections.
<b>yMeanKronMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of Kron (1980) magnitudes from y filter detections.
<b>yMeanKronMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean Kron (1980) magnitude from y filter detections.
<b>yMeanApMag</b>	AB magnitudes	REAL	4	-999	Mean aperture magnitude from y filter detections.
<b>yMeanApMagErr</b>	AB magnitudes	REAL	4	-999	Error in mean aperture magnitude from y filter detections.
<b>yMeanApMagStd</b>	AB magnitudes	REAL	4	-999	Standard deviation of aperture magnitudes from y filter detections.
<b>yMeanApMagNpt</b>	dimensionless	SMALLINT	2	-999	Number of measurements included in mean aperture magnitude from y filter detections.
<b>yFlags</b>	dimensionless	INT	4	0	Information flag bitmask for mean object from y filter detections. Values listed in <a href="#">ObjectFilterFlags</a> .