



## Q1-Q8 Kepler Object of Interest Table (q1\_q8\_koi) Delivery Log

Date	Comment
2013-01-07	Activity table opened. Stellar parameters, fits and dispositions for KOIs $\leq 1609$ and $\geq 2668$ delivered. KOI dispositions with NULL values have not been vetted during this work. While the work on this table is approaching completion, all parameters and dispositions may still change until the activity is classified as closed.
2013-02-04	Updated dispositions of 23 KOIs from planetary candidates (PC) to false-positives (FP). These KOIs were identified as suspect via period and epoch matching between all known KOIs and eclipsing binaries (EBs). Detailed pixel-level follow-up confirmed that these KOIs are a result of contamination by known EBs, either from the Kepler Eclipsing Binary Catalog v3.0 ( <a href="http://astro9.ast.villanova.edu/">http://astro9.ast.villanova.edu/</a> ) or from ground-based surveys. Notes for each object are provided in the koi_comment field. Here “PRF contamination” means an EB was close enough to the KOI to directly contaminate the KOI’s pixels, “cross-talk” means that the EB signal was propagated to the same row and column of another output on the same module via video crosstalk (see Kepler Instrument Handbook, pp.71-72), and “charge-transfer anomaly” is not fully understood, but appears to be contamination from a widely separated EB on the same column, module, and output as the KOI. One additional period-epoch match was found involving KOI 2233.01 and the EB KIC 9101279. However, KOI 2233.01 remains a planet candidate because its transit shape is distinctly different than the EB’s primary eclipse and the EB’s secondary is not seen at the expected level.
2013-03-06	Changed the dispositions of 5 KOIs from planetary candidate (PC) to false-positive (FP). These objects required extra scrutiny and analysis beyond the typical KOI because they have low SNR or other issues that confounded the analysis based on DV reports alone. The extra analysis typically involved examination of pixel-level data including pixel time series and improved centroid techniques.
2013-08-29	Added 317 KOIs to the Q1–Q8 table. Of these, 265 have a disposition of FALSE POSITIVE and 52 have a disposition of CANDIDATE. 237 of these objects were found in the Q1–Q6 data, but were not strong planetary candidates and, until recently, were not reviewed by the False Positive working group. They are now included in the Q1–Q8 KOI table to ensure the archive has a complete list of all identified KOIs. The other 80 objects being added to this table were discovered using the Q1–Q8 data, but lacked the required analysis products to immediately make them into KOIs or give them dispositions. We have now completed that work and include them in the Q1–Q8 table.



Date	Comment
<b>2013-09-05</b>	Updated all KOIs in the Q1–Q8 table with the most current planetary fits, stellar parameters and dispositions. The most significant updates to this table include 1) the addition of stellar masses for all objects in the table and 2) disposition changes due to period-epoch matching. These period-epoch matches were identified by cross-matching the ephemerides of all KOIs in the current cumulative activity table and all known eclipsing binaries (i.e., the Kepler Eclipsing Binary Catalog v3.0 ( <a href="http://astro9.ast.villanova.edu/">http://astro9.ast.villanova.edu/</a> ) and a number of published ground-based surveys). Detailed analysis then determined which of these KOIs suffered from flux contamination by another source. The most frequent type of contamination was direct PRF (see Kepler Instrument Handbook, p. 35) contamination, while others suffered from video crosstalk (see KIH, p. 71) or scattered light (see KIH, p. 41) contamination. Note that some of these KOIs were previously NOT DISPOSITIONED and some were dispositioned as CANDIDATE, but many were already dispositioned as FALSE POSITIVE using other metrics.
<b>2013-10-25</b>	Updated all KOIs in the Q1–Q8 table with the most current planetary fits, stellar parameters and dispositions. These values agree with those described in the submitted version of the Q1–Q8 catalog paper (Burke et al. 2013).
<b>2014-01-08</b>	This table is considered DONE; no further work will be done on this activity. A full description of this table can be found in Burke et al. 2013, ApJS, 210, 19 (2013arXiv1312.5358B).