

SUMMARY OF REFINERY CRACKING CAPACITY: US WEST COAST v. COUNTRIES WITH CRUDE CAPACITY EXCEEDING 1MM b/d, 2017.*

<i>in millions of barrels per day</i>	capacities of heavy oil cracking* process units (MM b/d)								heavy oil cracking*	crude capacity* (MM b/d)	cracking to crude capacity (ratio)
	fluid	delayed	vis-	other	catalytic cracking		hydrocracking				
	coking	coking	breaking	coking	fresh feed	recycled feed	gas oil feed	residuum feed			
World (all nations)	0.825	4.051	2.536	0.609	14.081	0.369	1.322	0.530	24.323	91.587	0.27
United States	0.143	2.543	0.014	0.000	5.420	0.089	0.891	0.116	9.216	18.458	0.50
US West Coast*	0.047	0.487	0.014	0.000	0.801	0.015	0.220	0.000	1.584	2.935	0.54
China	0.052	0.328	0.037	0.000	0.955	0.076	0.050	0.000	1.498	9.701	0.15
California	0.047	0.413	0.004	0.000	0.650	0.012	0.134	0.000	1.260	1.991	0.63
Japan	0.030	0.020	0.022	0.024	0.773	0.000	0.000	0.033	0.902	3.817	0.24
Russia	0.129	0.026	0.173	0.074	0.365	0.000	0.000	0.000	0.767	5.122	0.15
Germany	0.000	0.080	0.221	0.062	0.347	0.000	0.052	0.000	0.762	2.189	0.35
India	0.133	0.036	0.073	0.000	0.508	0.000	0.000	0.000	0.750	4.751	0.16
South Korea	0.000	0.019	0.000	0.000	0.367	0.000	0.121	0.169	0.676	2.959	0.23
Canada	0.033	0.027	0.045	0.077	0.403	0.089	0.000	0.000	0.674	2.057	0.33
Brazil	0.000	0.115	0.000	0.000	0.502	0.000	0.000	0.000	0.617	2.138	0.29
Mexico	0.191	0.000	0.000	0.000	0.380	0.000	0.000	0.000	0.571	1.540	0.37
United Kingdom	0.055	0.068	0.046	0.000	0.348	0.000	0.000	0.000	0.517	1.390	0.37
Italy	0.000	0.000	0.233	0.000	0.242	0.000	0.000	0.000	0.475	2.117	0.22
Spain	0.000	0.063	0.149	0.000	0.191	0.000	0.000	0.000	0.403	1.427	0.28
Venezuela	0.000	0.087	0.000	0.058	0.232	0.000	0.000	0.000	0.377	1.284	0.29
France	0.000	0.000	0.111	0.000	0.245	0.000	0.000	0.000	0.356	1.406	0.25
Saudi Arabia	0.000	0.000	0.191	0.000	0.104	0.000	0.000	0.010	0.305	2.907	0.10
Taiwan	0.000	0.051	0.000	0.000	0.218	0.000	0.000	0.025	0.294	1.310	0.22
Netherlands	0.000	0.000	0.082	0.050	0.106	0.000	0.000	0.025	0.263	1.213	0.22
Singapore	0.000	0.000	0.114	0.033	0.081	0.000	0.000	0.024	0.252	1.344	0.19
Indonesia	0.000	0.033	0.050	0.000	0.163	0.000	0.000	0.000	0.246	1.115	0.22
Iran	0.000	0.000	0.155	0.000	0.035	0.000	0.000	0.000	0.190	2.039	0.09
U.A. Emirates	0.000	0.000	0.000	0.000	0.019	0.000	0.057	0.000	0.076	1.107	0.07

*NOTES Heavy oil cracking: coking, visbreaking, catalytic cracking, and hydrocracking of heavy oil and residuum
 US West Coast: Petroleum Administration Defense District 5 (PADD 5; AK, AZ, CA, HI, ORE, NV and WA)
 Crude capacity: Atmospheric crude distillation capacity
 Data from *Oil & Gas Journal* "Worldwide Refining Survey" as of 1 January 2017.
 All capacities shown in millions of barrels per calendar day (1 barrel: 42 US gallons)