

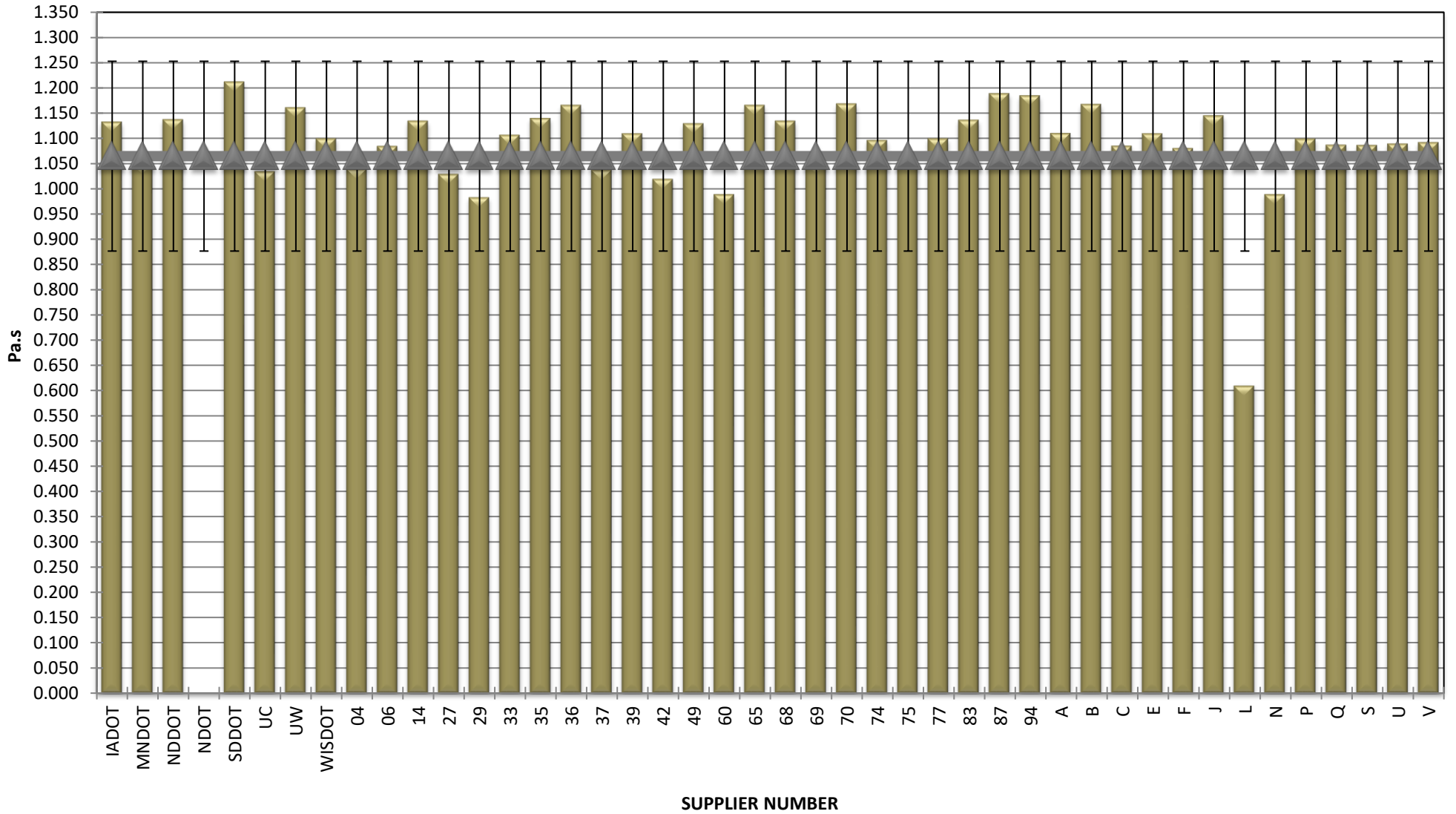


**COMBINED STATE BINDER GROUP ROUND ROBIN SUMMARY B 2021-1  
PG 58E-34**

	Rot. Visc.	ODSR	RTFO DSR	PAVDSR	Mass Loss	S-value	m-value	Jnr @ 100 Pa	% Rec. 100 Pa	Jnr @ 3200 Pa	% Rec. @ 3200 Pa
<b>A</b>											
19	1.104	3.59		3,271	0.341	278	0.322	0.077	90.51	0.110	86.53
51	1.090	3.69		3,121	0.319	282	0.319	0.075	90.35	0.107	86.28
97	1.120	3.58		3,159	0.344	263	0.321	0.070	91.39	0.104	87.40
98	1.128	3.80		3,162	0.354	286	0.323	0.066	91.69	0.098	87.65
<b>AVERAGE</b>	<b>1.111</b>	<b>3.66</b>		<b>3,178</b>	<b>0.340</b>	<b>277</b>	<b>0.321</b>	<b>0.072</b>	<b>90.99</b>	<b>0.105</b>	<b>86.97</b>
<b>B</b>											
01	1.142	3.60		3,800	0.334	292	0.306	0.065	91.53	0.099	87.17
17	1.187	3.81		2,950	0.390	292	0.308	0.057	92.33	0.090	88.08
45	1.175	3.78		3,580	0.371	298	0.304	0.055	92.48	0.085	88.40
<b>AVERAGE</b>	<b>1.168</b>	<b>3.73</b>		<b>3,443</b>	<b>0.365</b>	<b>294</b>	<b>0.306</b>	<b>0.059</b>	<b>92.11</b>	<b>0.091</b>	<b>87.88</b>
<b>C</b>											
28	1.074	3.95		3,294	0.376	294	0.314	0.055	92.04	0.086	87.67
66	1.088	3.72		3,230	0.345	289	0.314	0.064	92.07	0.099	87.91
90	1.095	3.71		3,416	0.337	294	0.315	0.061	92.34	0.096	88.07
99	1.085	3.76		3,456	0.378	297	0.314	0.060	92.21	0.096	87.73
<b>AVERAGE</b>	<b>1.086</b>	<b>3.79</b>		<b>3,349</b>	<b>0.359</b>	<b>293.5</b>	<b>0.314</b>	<b>0.060</b>	<b>92.17</b>	<b>0.094</b>	<b>87.85</b>
<b>E</b>											
15	1.110	3.67		3,286	0.357	296	0.320	0.007	99.00	0.061	91.90
89	1.110	3.66		3,343	0.369	292	0.322	0.002	99.70	0.071	90.80
<b>AVERAGE</b>	<b>1.110</b>	<b>3.67</b>		<b>3,315</b>	<b>0.363</b>	<b>294</b>	<b>0.321</b>	<b>0.005</b>	<b>99.35</b>	<b>0.066</b>	<b>91.35</b>
<b>F</b>											
02	1.080	3.74		3,792	0.331	292	0.312	0.064	91.71	0.098	87.48
11	1.075	3.70		3,423	0.34	292	0.308	0.060	92.06	0.095	87.71
34	1.089	3.82		3,616	0.294	286	0.313	0.054	93.10	0.083	88.16
48	1.078	3.86		3,390	0.307	299	0.311	0.054	93.07	0.092	88.28
56	1.076	3.74		3,240	0.371	292	0.308	0.064	91.52	0.092	87.92
62	1.087	3.72		3,164	0.301	277	0.321	0.060	92.33	0.084	89.22
<b>AVERAGE</b>	<b>1.081</b>	<b>3.76</b>		<b>3,438</b>	<b>0.324</b>	<b>289.6667</b>	<b>0.312</b>	<b>0.059</b>	<b>92.30</b>	<b>0.092</b>	<b>88.13</b>
<b>J</b>											
05	1.152	3.83		3,241	0.355	282	0.311	0.032	95.48	0.062	91.43
08	1.118	3.80		3,238	0.365	290	0.317	0.012	98.34	0.051	92.95
10	1.164	3.88		3,025	0.385	269	0.319	0.000	100.00	0.073	90.07
22	1.157	3.87		3,256	0.383	289	0.324	0.016	97.72	0.046	93.62
31	1.209	3.87		3,165	0.379	277	0.313	0.024	96.66	0.064	91.21
41	1.073	3.64		3,212	0.386	282	0.314	0.030	95.91	0.061	91.78
<b>AVERAGE</b>	<b>1.146</b>	<b>3.81</b>		<b>3,190</b>	<b>0.376</b>	<b>281.5</b>	<b>0.316</b>	<b>0.019</b>	<b>97.35</b>	<b>0.060</b>	<b>91.84</b>
<b>L</b>											
25	1.110	3.74		3,488	0.313	277	0.314	0.069	91.09	0.104	86.69
59	0.115	2.76		5,373	0.456			0.074	87.40	0.075	86.80
<b>AVERAGE</b>	<b>0.613</b>	<b>3.25</b>		<b>4,431</b>	<b>0.385</b>	<b>277</b>	<b>0.314</b>	<b>0.072</b>	<b>89.25</b>	<b>0.089</b>	<b>86.75</b>
<b>N</b>											
07	0.980	3.49		3,042	0.396	290	0.323	0.025	96.80	0.088	89.40
43	1.045	3.56		3,030	0.306	305	0.323	0.125	85.86	0.121	86.33
95	0.945	3.52		2,994	0.391	288	0.320	0.048	93.90	0.066	91.70
<b>AVERAGE</b>	<b>0.990</b>	<b>3.52</b>		<b>3,022</b>	<b>0.364</b>	<b>294</b>	<b>0.322</b>	<b>0.066</b>	<b>92.19</b>	<b>0.092</b>	<b>89.14</b>
<b>P</b>											
30	1.072	3.59		3,406	0.297	302	0.320	0.066	91.40	0.098	87.24
73	1.127	3.63		3,308	0.385	280.000	0.324	0.051	93.07	0.083	88.88
<b>AVERAGE</b>	<b>1.100</b>	<b>3.61</b>		<b>3,357</b>	<b>0.341</b>	<b>291</b>	<b>0.322</b>	<b>0.059</b>	<b>92.24</b>	<b>0.091</b>	<b>88.06</b>
<b>Q</b>											
23	1.090	3.68		3,480	0.410	276	0.322	0.060	92.18	0.092	88.00
93	1.085	3.64		3,340	0.340	282	0.325	0.060	92.26	0.091	88.31
<b>AVERAGE</b>	<b>1.088</b>	<b>3.66</b>		<b>3,410</b>	<b>0.375</b>	<b>279</b>	<b>0.324</b>	<b>0.060</b>	<b>92.22</b>	<b>0.092</b>	<b>88.16</b>
<b>S</b>											
53	1.087	3.64		3,096	0.312	274	0.315	0.061	92.05	0.093	87.60
64	1.087	3.68		3,006	0.350	295	0.320	0.059	92.52	0.092	87.60
<b>AVERAGE</b>	<b>1.087</b>	<b>3.66</b>		<b>3,051</b>	<b>0.331</b>	<b>284.5</b>	<b>0.318</b>	<b>0.060</b>	<b>92.29</b>	<b>0.092</b>	<b>87.60</b>
<b>U</b>											
13	1.085	3.62		3,240	0.368	297	0.325	0.678	90.99	0.101	86.72
24	1.095	3.69		3,230	0.314	289	0.325	0.057	91.98	0.085	87.96
<b>AVERAGE</b>	<b>1.090</b>	<b>3.66</b>		<b>3,235</b>	<b>0.341</b>	<b>293</b>	<b>0.325</b>	<b>0.367</b>	<b>91.49</b>	<b>0.093</b>	<b>87.34</b>
<b>V</b>											
58	1.101	3.70		3,685	0.414	293	0.318	0.058	92.32	0.091	88.00
78	1.115	3.79		3,910	0.416	287	0.321	0.059	92.32	0.092	88.07
81	1.062	3.61		3,965	0.388	294	0.318	0.070	91.23	0.106	86.80
<b>AVERAGE</b>	<b>1.093</b>	<b>3.70</b>		<b>3,853</b>	<b>0.406</b>	<b>291</b>	<b>0.319</b>	<b>0.062</b>	<b>91.96</b>	<b>0.096</b>	<b>87.62</b>

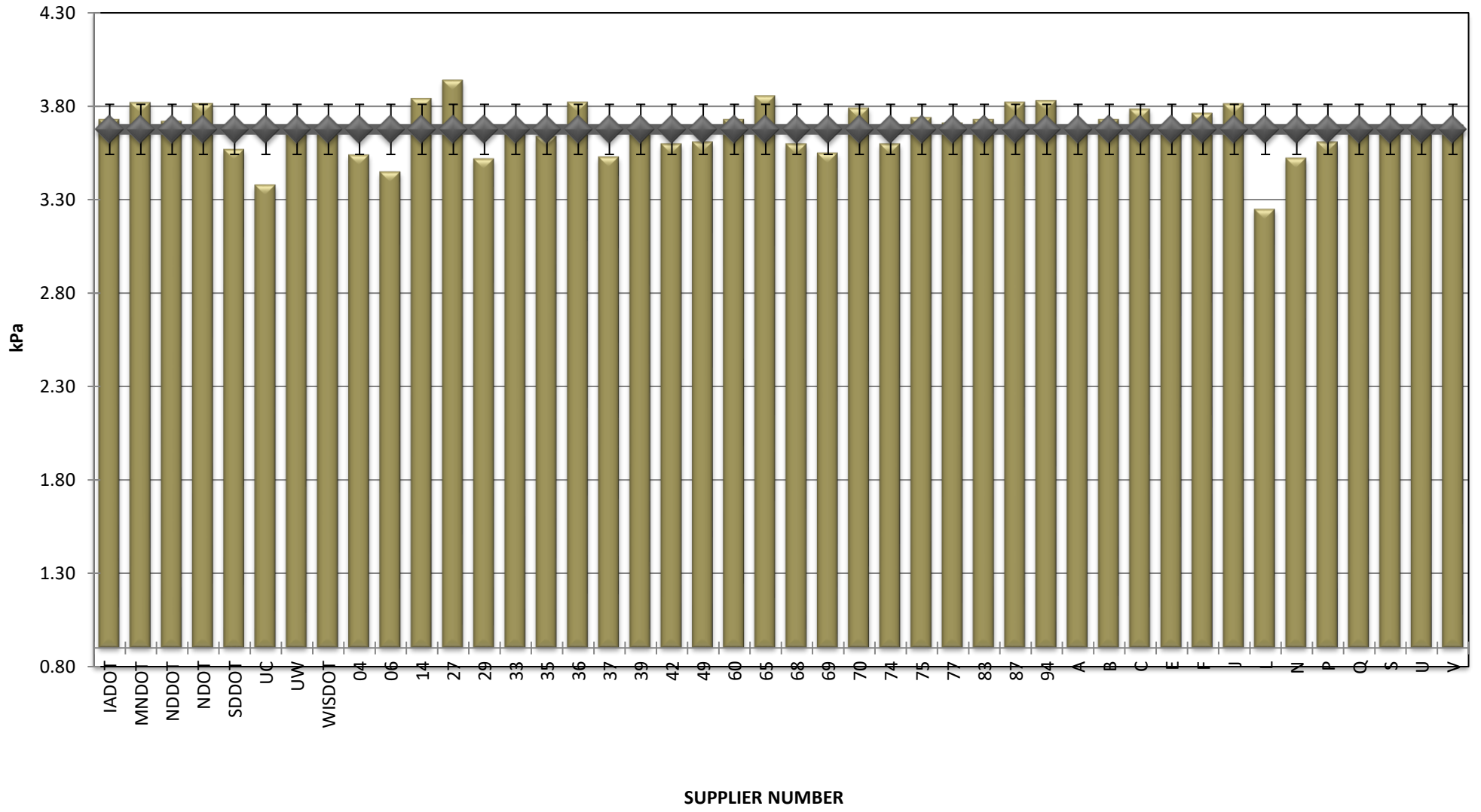
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**ROTATIONAL VISCOSITY**



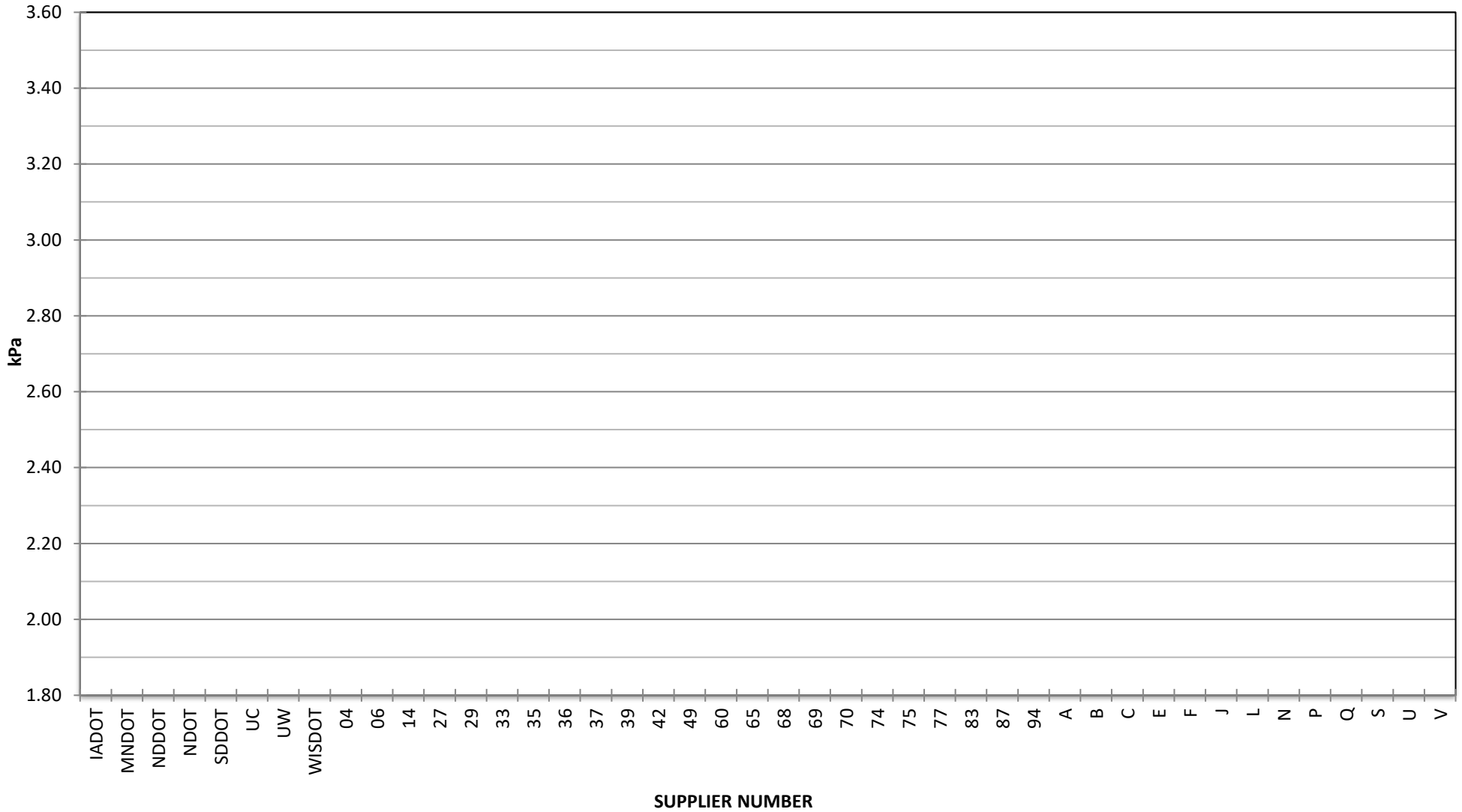
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**DSR - ORIGINAL**



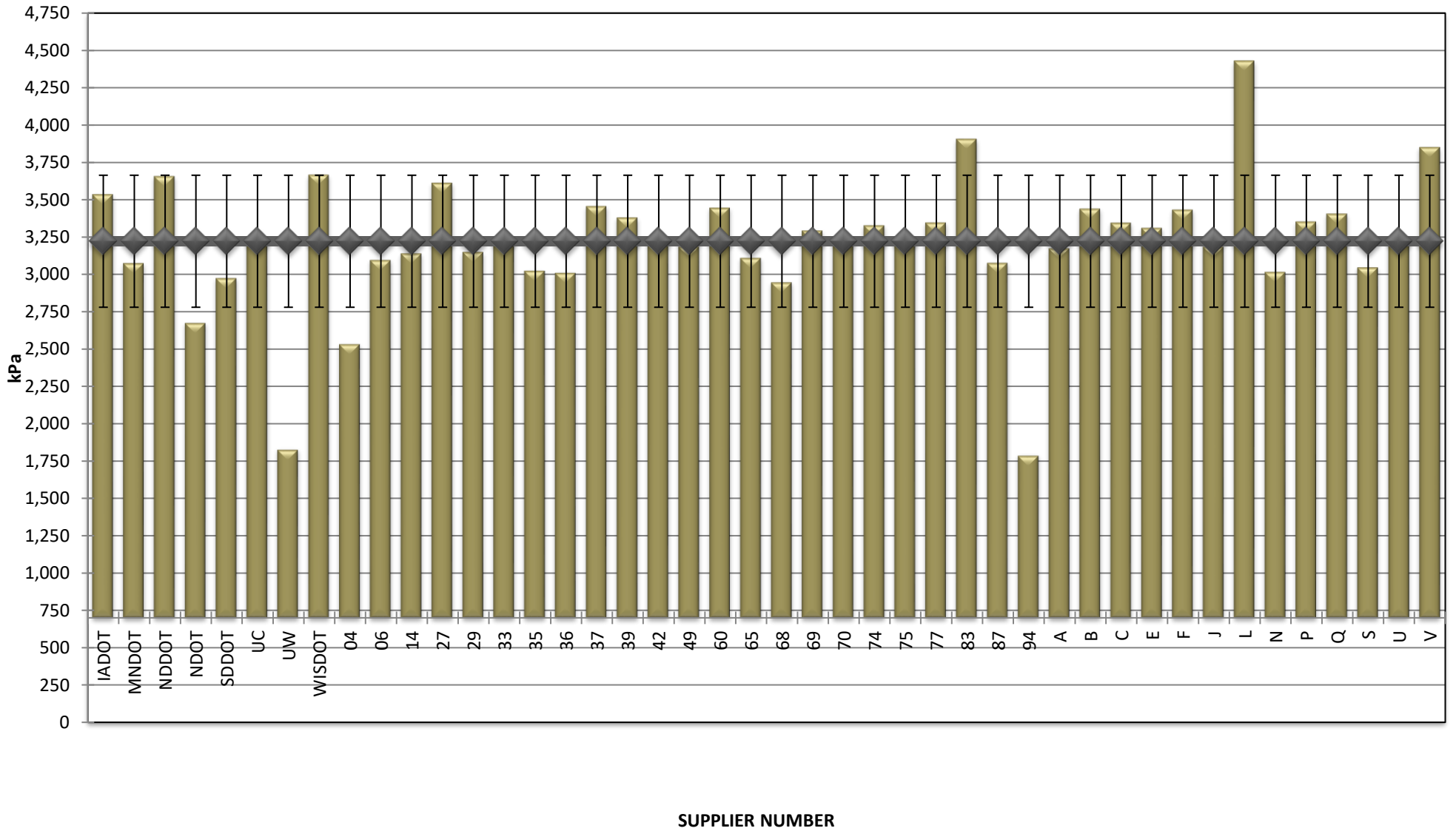
COMBINED STATE BINDER GROUP ROUND ROBIN  
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DSR - RTFO



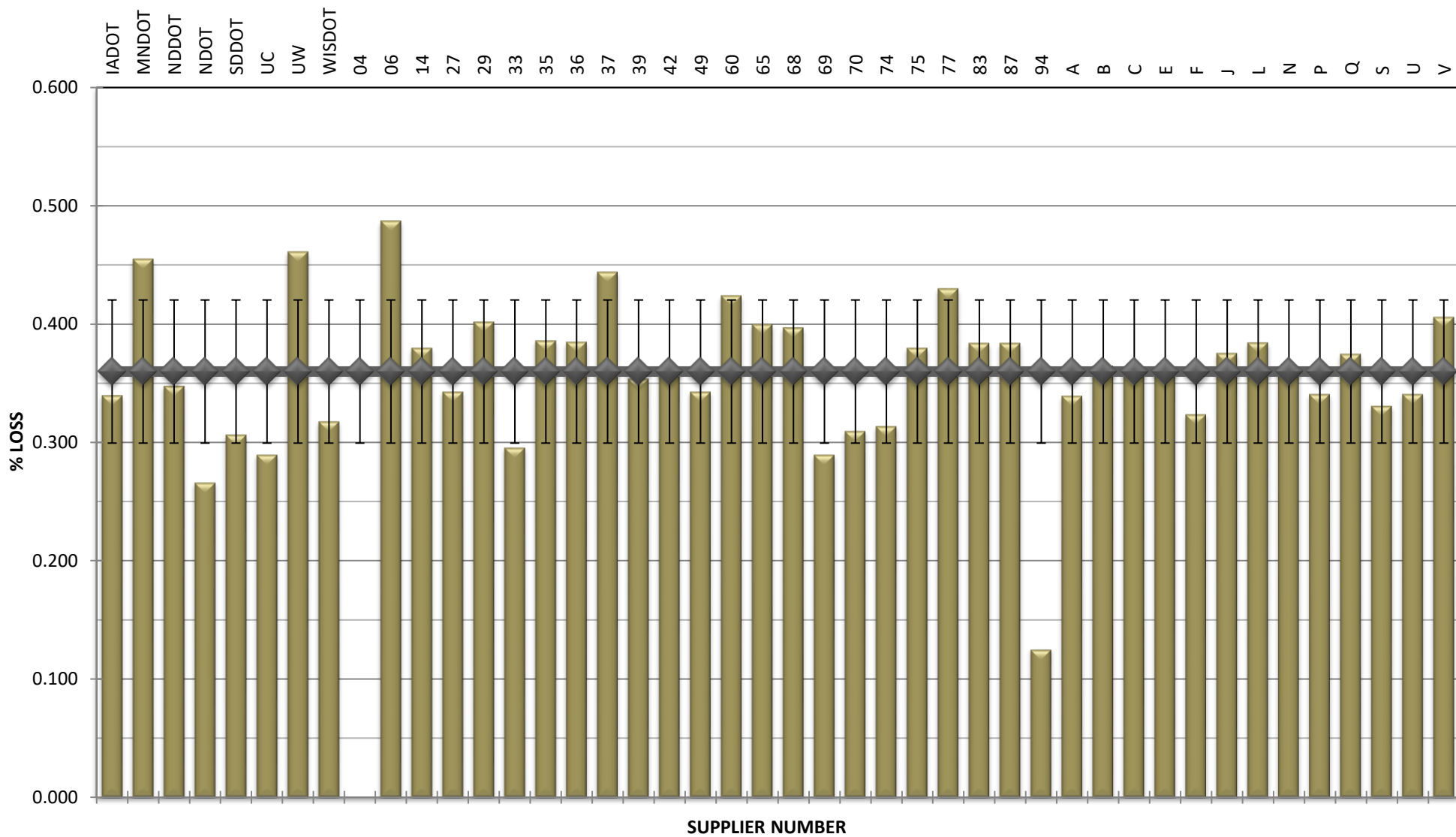
**COMBINED STATE BINDER GROUP ROUND ROBIN  
SUMMARY B 2021-1  
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**DSR - PAV**



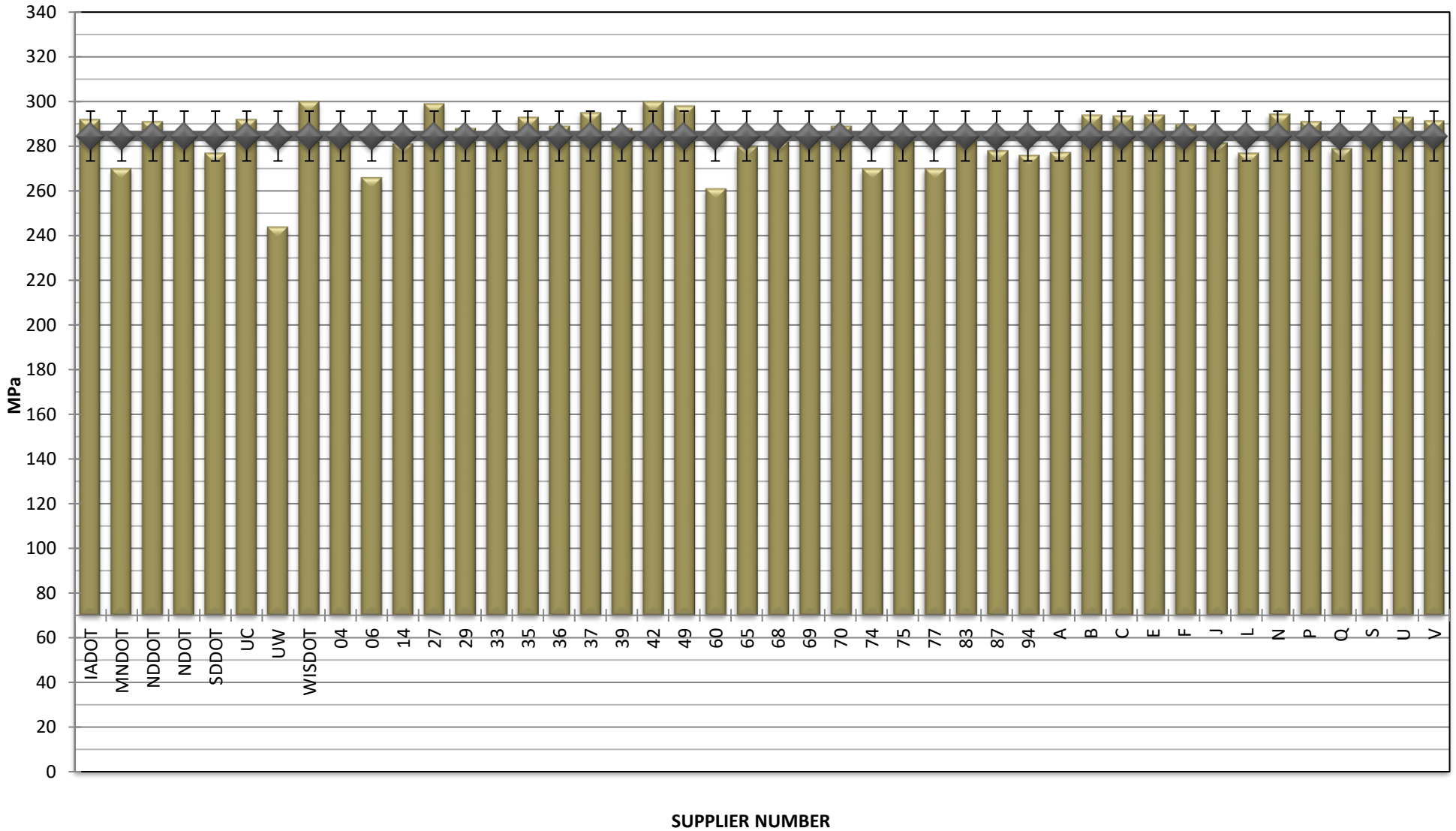
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**RTFO MASS LOSS**



**COMBINED STATE BINDER GROUP ROUND ROBIN  
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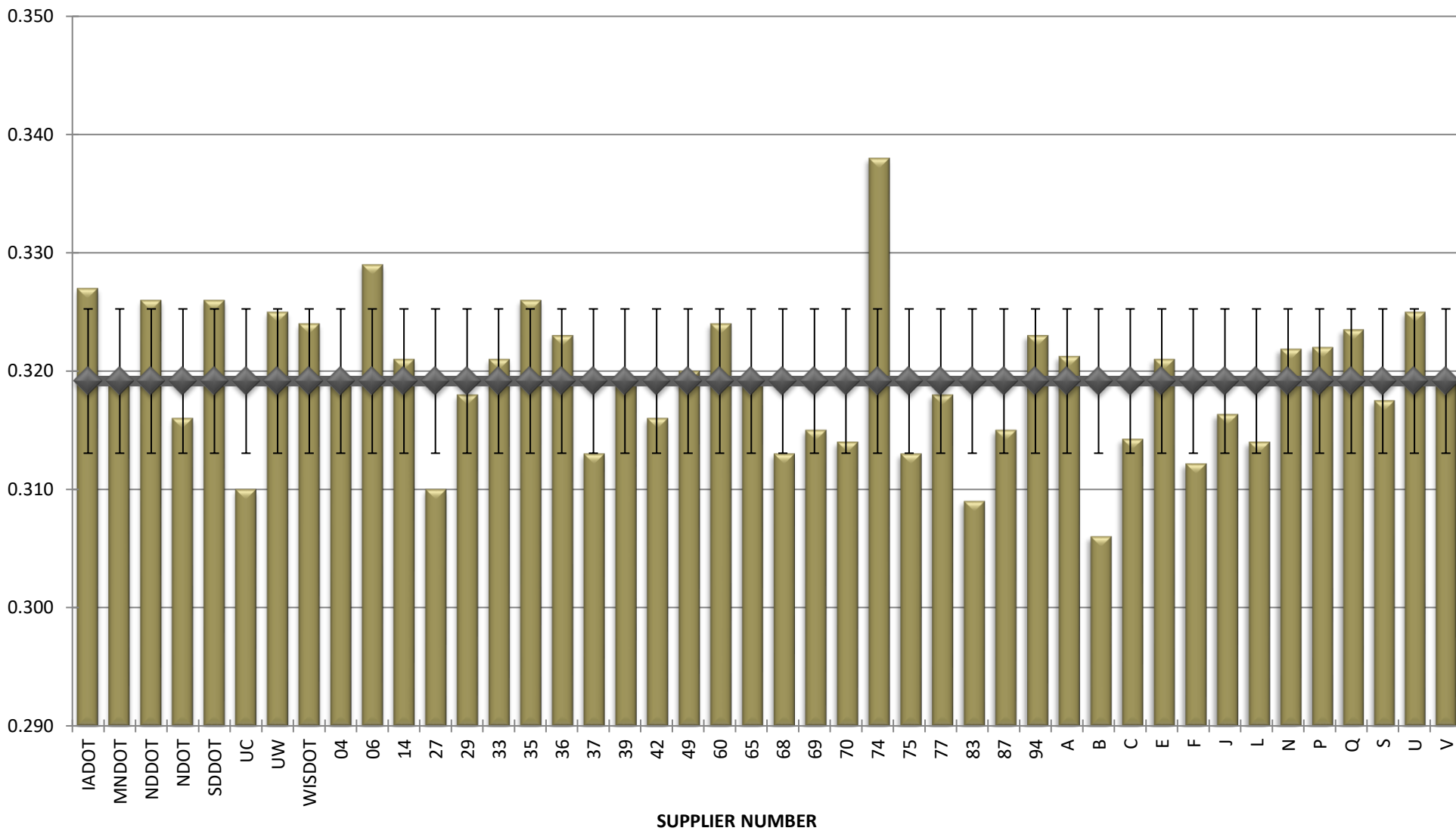
**BBR STIFFNESS**





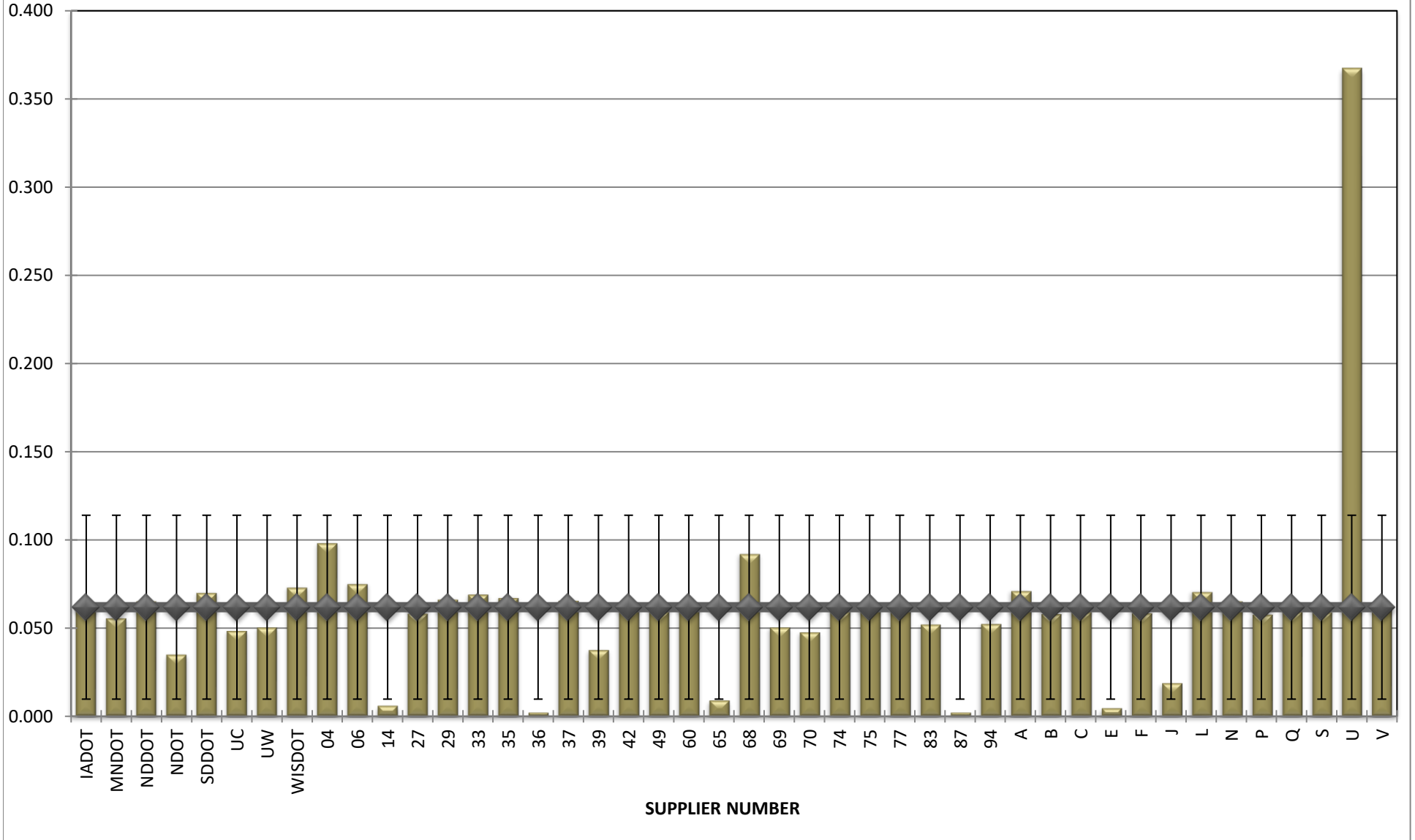
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**BBR m-VALUE**



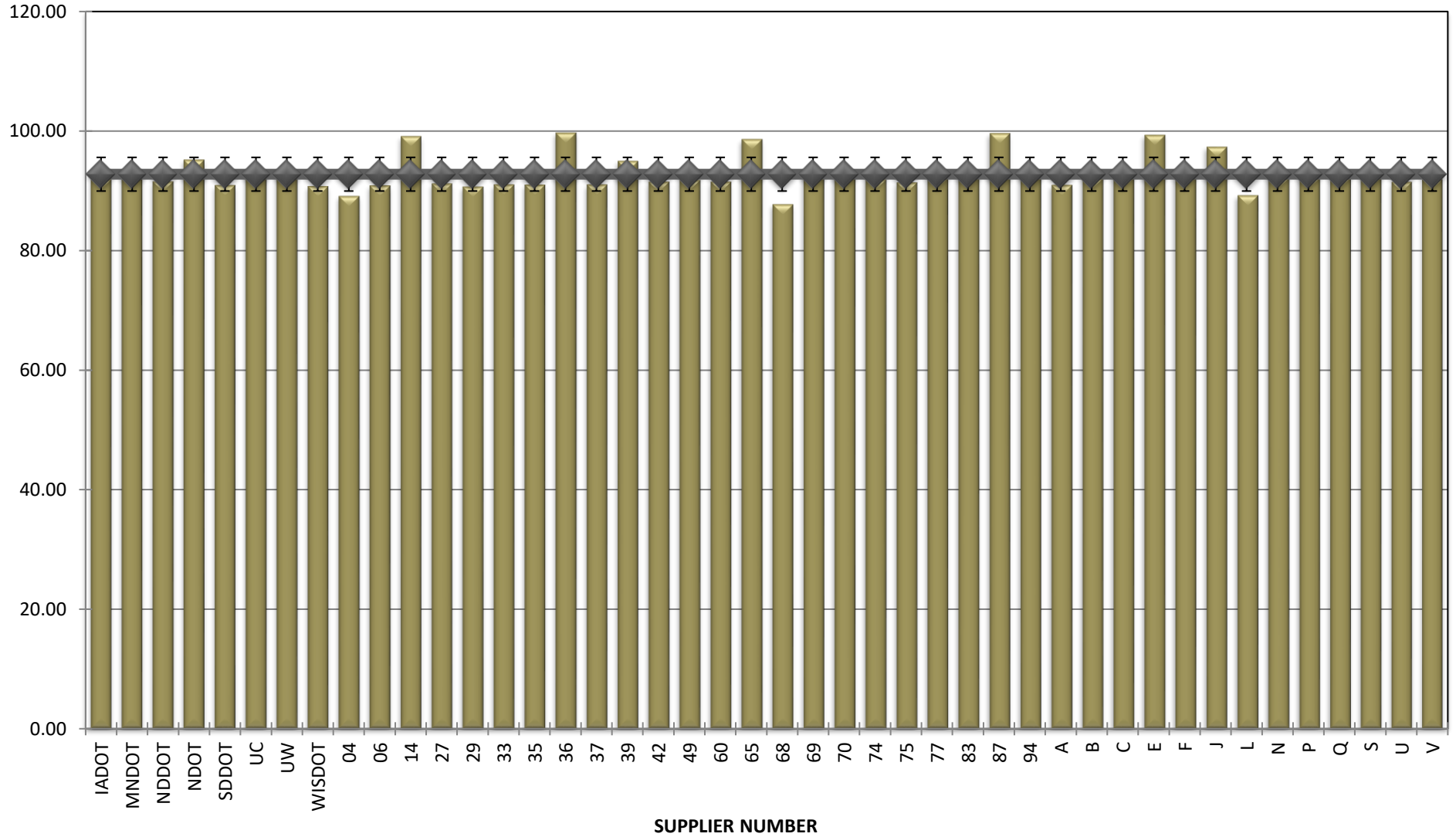
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**Jnr @ 100 Pa**



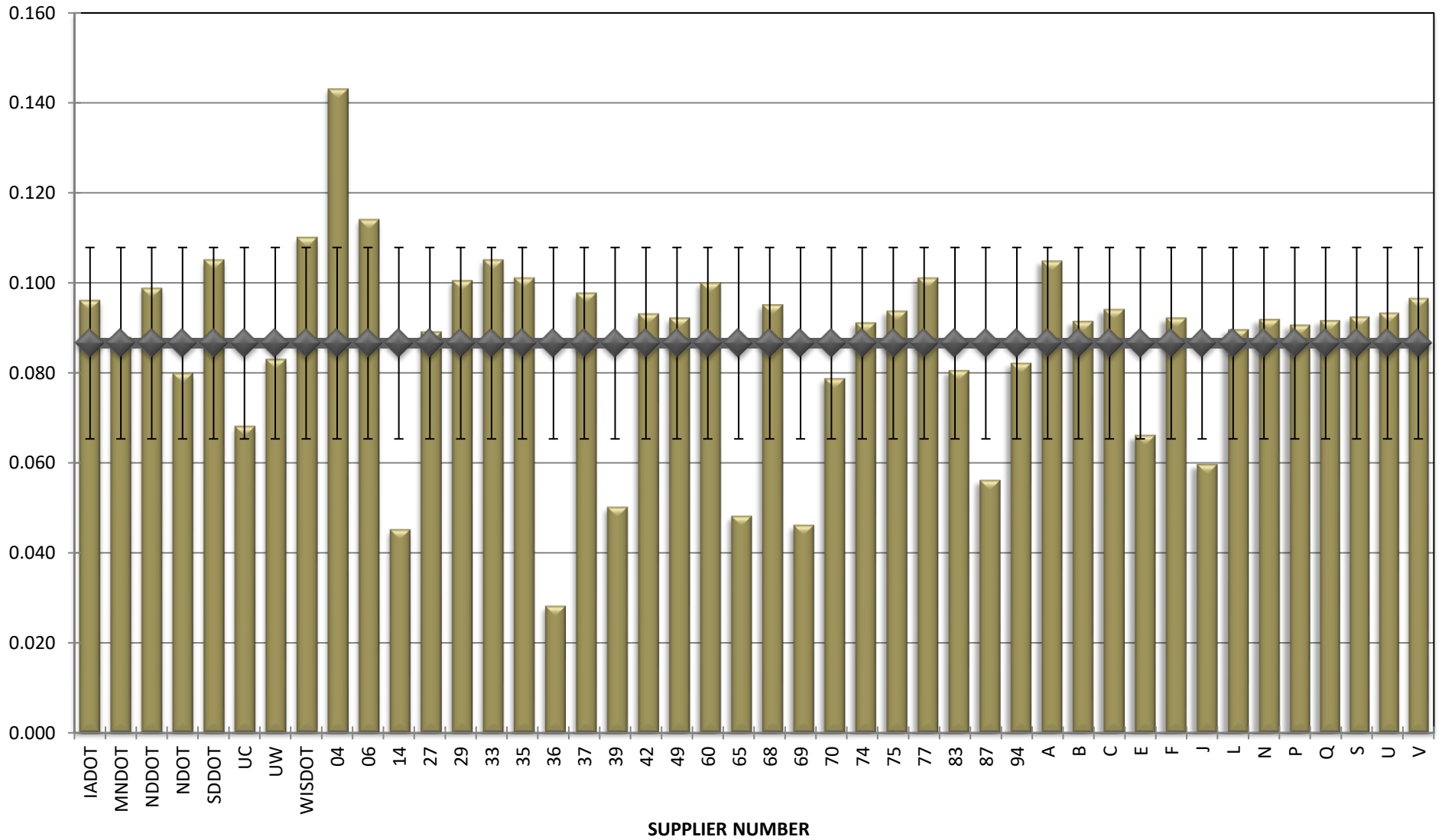
**COMBINED STATE BINDER GROUP ROUND ROBIN  
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**% Recovery @ 100 Pa**



**COMBINED STATE BINDER GROUP ROUND ROBIN  
SUMMARY B 2021-1  
PG 58E-34**

**Jnr @ 3200 Pa**



COMBINED STATE BINDER GROUP ROUND ROBIN  
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% Recovery @ 3200 Pa

