

These are the Uganda hybred results. Results are presented in order of increasing ME, by hybred tier. There is no ME on individual tests, because we have the observed VL information already. The ME is applied to the row and column pool averages.

TABLE 1 Uganda results - Hybred mid tier: ME=0

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	100% (78.2%, 100%)	100% (78.2%, 100%)	100% (78.2%, 100%)	100% (78.2%, 100%)	100% (78.2%, 100%)
Efficiency	77.7% (75%, 80.2%) 78.5% (77%, 79%) 74%, 80%	77.7% (75%, 80.2%) 78% (77%, 79%) 73%, 80%	77.5% (74.8%, 80.1%) 78% (75.5%, 79%) 74%, 80%	83.1% (80.6%, 85.4%) 83% (79.5%, 87%) 75%, 90%	79.8% (77.2%, 82.2%) 81% (74.5%, 85%) 65%, 90%
Rounds	2.4 (1.6, 3.2) 2 (2, 3) 1, 4	1.9 (1.5, 2.3) 2 (2, 2) 1, 3	1.9 (1.5, 2.3) 2 (2, 2) 1, 3	5.9 (3.6, 8.2) 6 (3.25, 7.75) 1, 11	7.3 (5.1, 9.5) 8 (6, 9) 1, 11



TABLE 2 Uganda results - Hybred mid tier: ME=0.05

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	93.3% (68.1%, 99.8%)	93.3% (68.1%, 99.8%)	93.3% (68.1%, 99.8%)	100% (78.2%, 100%)	100% (78.2%, 100%)
Efficiency	77.7% (75%, 80.2%) 78% (76.2%, 79.8%) 74%, 80%	77.6% (74.9%, 80.1%) 77.5% (76%, 79.8%) 74%, 80%	77.9% (75.2%, 80.4%) 78% (77%, 79.8%) 74%, 80%	80.5% (77.9%, 82.9%) 79.5% (76.2%, 86.5%) 70%, 89%	78.2% (75.5%, 80.7%) 75% (73.5%, 84.5%) 72%, 86%
Rounds	2.5 (1.6, 3.4) 2.5 (1.25, 3.75) 1, 4	1.8 (1.3, 2.3) 2 (1.25, 2) 1, 3	1.7 (1.4, 2) 2 (1.25, 2) 1, 2	7.9 (5.1, 10.7) 10.5 (4.25, 11) 2, 11	8.9 (7.1, 10.7) 10 (6.5, 11) 5, 11

Here is the beginning of the low tier.

TABLE 3 Uganda results - Hypred mid tier: ME=0.12

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	93.3% (68.1%, 99.8%)	93.3% (68.1%, 99.8%)	93.3% (68.1%, 99.8%)	100% (78.2%, 100%)	100% (78.2%, 100%)
Efficiency	77.6% (74.9%, 80.1%)	77.6% (74.9%, 80.1%)	77.9% (75.2%, 80.4%)	79% (76.3%, 81.5%)	76.7% (74%, 79.3%)
	78% (76%, 79.8%)	77.5% (76%, 79.8%)	78% (77%, 79.8%)	79.5% (71.2%, 86.5%)	75% (73.2%, 83.8%)
	74%, 80%	74%, 80%	74%, 80%	67%, 89%	62%, 86%
Rounds					
	2.6 (1.6, 3.6)	1.8 (1.3, 2.3)	1.7 (1.4, 2)	7.9 (5.1, 10.7)	9.2 (7.5, 10.9)
	2.5 (1.25, 4)	2 (1.25, 2)	2 (1.25, 2)	10.5 (4.25, 11)	11 (7.25, 11)
	1, 4	1, 3	1, 2	2, 11	5, 11

TABLE 4 Uganda results - Hypred mid tier: ME=0.25

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	66.7% (38.4%, 88.2%)	66.7% (38.4%, 88.2%)	66.7% (38.4%, 88.2%)	100% (78.2%, 100%)	100% (78.2%, 100%)
Efficiency	78.5% (75.8%, 81%)	78.2% (75.5%, 80.7%)	78.4% (75.7%, 80.9%)	77.6% (74.9%, 80.1%)	75.9% (73.1%, 78.5%)
	79% (79%, 79.8%)	78% (77%, 79.8%)	79% (78%, 79.8%)	79.5% (70.7%, 86%)	74.5% (73%, 82.7%)
	74%, 80%	76%, 80%	74%, 80%	57%, 89%	58%, 86%
Rounds					
	2.1 (1.3, 2.9)	1.7 (1.4, 2)	1.7 (1.4, 2)	7.9 (5.1, 10.7)	9.4 (7.7, 11.1)
	2 (1.25, 2)	2 (1.25, 2)	2 (1.25, 2)	10.5 (4.25, 11)	11 (8.25, 11)
	1, 4	1, 2	1, 2	2, 11	5, 11

TABLE 5 Uganda results - Hypred mid tier: ME=0.5

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	53.3% (26.6%, 78.7%)	53.3% (26.6%, 78.7%)	53.3% (26.6%, 78.7%)	100% (78.2%, 100%)	100% (78.2%, 100%)
Efficiency	78.7% (76%, 81.2%)	78.6% (75.9%, 81.1%)	78.7% (76%, 81.2%)	72.9% (70%, 75.6%)	72.8% (69.9%, 75.5%)
	79.5% (79%, 80%)	79% (77.2%, 80%)	79.5% (78.2%, 80%)	71% (70%, 80%)	70% (68.5%, 80%)
	74%, 80%	76%, 80%	74%, 80%	54%, 86%	56%, 85%
Rounds	1.9 (1, 2.8)	1.5 (1.1, 1.9)	1.5 (1.1, 1.9)	9.9 (8.2, 11.6)	10.3 (9.1, 11.5)
	1.5 (1, 2)	1.5 (1, 2)	1.5 (1, 2)	11 (11, 11)	11 (11, 11)
	1, 4	1, 2	1, 2	5, 11	6, 11

TABLE 6 Uganda results - Hypred mid tier: ME=0.75

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	46.7% (21.3%, 73.4%)	46.7% (21.3%, 73.4%)	46.7% (21.3%, 73.4%)	100% (78.2%, 100%)	100% (78.2%, 100%)
Efficiency	78.9% (76.2%, 81.4%)	78.4% (75.7%, 80.9%)	78.8% (76.1%, 81.3%)	70.3% (67.4%, 73.1%)	70.3% (67.4%, 73.1%)
	79.5% (79%, 80%)	79% (77.2%, 80%)	79.5% (78.2%, 80%)	70% (64.8%, 80%)	70% (64.8%, 80%)
	76%, 80%	75%, 80%	75%, 80%	50%, 80%	50%, 80%
Rounds	1.9 (1, 2.8)	1.5 (1.1, 1.9)	1.5 (1.1, 1.9)	11 (11, 11)	11 (11, 11)
	1.5 (1, 2)	1.5 (1, 2)	1.5 (1, 2)	11 (11, 11)	11 (11, 11)
	1, 4	1, 2	1, 2	11, 11	11, 11

TABLE 7 Uganda results - Hypred low tier: ME=0

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	85.7% (42.1%, 99.6%)	100% (59%, 100%)	100% (59%, 100%)	100% (59%, 100%)	100% (59%, 100%)
Efficiency	79.7% (78%, 81.3%)	79.6% (77.9%, 81.2%)	79.7% (77.9%, 81.3%)	88.6% (87.2%, 89.9%)	88.5% (87.1%, 89.8%)
	80% (79.5%, 80%)	80% (79.5%, 80%)	80% (79.5%, 80%)	90% (88.5%, 90%)	90% (87%, 90%)
	78%, 80%	76%, 80%	77%, 80%	78%, 90%	80%, 90%
Rounds	1.3 (1.1, 1.5)	1.3 (1.1, 1.5)	1.3 (1.1, 1.5)	2.2 (1.3, 3.2)	2.5 (1.4, 3.6)
	1 (1, 1.5)	1 (1, 1.5)	1 (1, 1.5)	1 (1, 2.5)	1 (1, 4)
	1, 2	1, 2	1, 2	1, 9	1, 11

TABLE 8 Uganda results - Hypred low tier: ME=0.05

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	85.7% (42.1%, 99.6%)	85.7% (42.1%, 99.6%)	85.7% (42.1%, 99.6%)	100% (59%, 100%)	100% (59%, 100%)
Efficiency	79.7% (78%, 81.4%)	79.7% (78%, 81.4%)	79.7% (78%, 81.4%)	88.3% (86.9%, 89.6%)	87.5% (86.1%, 88.8%)
	80% (79.5%, 80%)	80% (79.5%, 80%)	80% (79.5%, 80%)	90% (88%, 90%)	90% (85%, 90%)
	79%, 80%	79%, 80%	79%, 80%	80%, 90%	80%, 90%
Rounds	1.3 (1.1, 1.5)	1.3 (1.1, 1.5)	1.3 (1.1, 1.5)	2.7 (1.5, 3.9)	3.5 (2, 5)
	1 (1, 1.5)	1 (1, 1.5)	1 (1, 1.5)	1 (1, 3)	1 (1, 6)
	1, 2	1, 2	1, 2	1, 11	1, 11

TABLE 9 Uganda results - Hypred low tier: ME=0.12

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	85.7% (42.1%, 99.6%)	85.7% (42.1%, 99.6%)	85.7% (42.1%, 99.6%)	100% (59%, 100%)	100% (59%, 100%)
Efficiency	79.7% (78%, 81.4%)	79.7% (78%, 81.3%)	79.7% (78%, 81.4%)	88.2% (86.8%, 89.5%)	87.3% (85.9%, 88.6%)
	80% (79.5%, 80%)	80% (79.5%, 80%)	80% (79.5%, 80%)	90% (88%, 90%)	90% (84.5%, 90%)
	79%, 80%	78%, 80%	79%, 80%	80%, 90%	80%, 90%
Rounds	1.3 (1.1, 1.5)	1.3 (1.1, 1.5)	1.3 (1.1, 1.5)	2.8 (1.6, 3.9)	3.7 (2.1, 5.2)
	1 (1, 1.5)	1 (1, 1.5)	1 (1, 1.5)	1 (1, 3)	1 (1, 6)
	1, 2	1, 2	1, 2	1, 11	1, 11

TABLE 10 Uganda results - Hypred low tier: ME=0.25

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	71.4% (29%, 96.3%)	71.4% (29%, 96.3%)	71.4% (29%, 96.3%)	100% (59%, 100%)	100% (59%, 100%)
Efficiency	79.8% (78.1%, 81.4%)	79.7% (78%, 81.4%)	79.8% (78.1%, 81.4%)	87% (85.5%, 88.3%)	86.9% (85.5%, 88.3%)
	80% (80%, 80%)	80% (80%, 80%)	80% (80%, 80%)	90% (84.5%, 90%)	90% (84%, 90%)
	79%, 80%	78%, 80%	79%, 80%	80%, 90%	80%, 90%
Rounds	1.2 (1, 1.4)	1.2 (1, 1.4)	1.2 (1, 1.4)	3.9 (2.3, 5.5)	4 (2.3, 5.7)
	1 (1, 1)	1 (1, 1)	1 (1, 1)	1 (1, 6)	1 (1, 6)
	1, 2	1, 2	1, 2	1, 11	1, 11

TABLE 11 Uganda results - Hypred low tier: ME=0.5

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	42.9% (9.9%, 81.6%)	42.9% (9.9%, 81.6%)	42.9% (9.9%, 81.6%)	100% (59%, 100%)	100% (59%, 100%)
Efficiency	79.9% (78.2%, 81.5%)	79.9% (78.2%, 81.5%)	79.9% (78.2%, 81.5%)	85.6% (84.1%, 87%)	86.2% (84.7%, 87.6%)
	80% (80%, 80%)	80% (80%, 80%)	80% (80%, 80%)	90% (80%, 90%)	90% (80.5%, 90%)
	79%, 80%	79%, 80%	79%, 80%	71%, 90%	78%, 90%
Rounds	1.1 (1, 1.3)	1.1 (1, 1.3)	1.1 (1, 1.3)	5 (3.1, 7)	4.7 (2.8, 6.6)
	1 (1, 1)	1 (1, 1)	1 (1, 1)	1 (1, 11)	1 (1, 10.5)
	1, 2	1, 2	1, 2	1, 11	1, 11

TABLE 12 Uganda results - Hypred low tier: ME=0.75

	Linreg	MSS	LRSOE	MiniCov	Mini
Sensitivity	14.3% (0.4%, 57.9%)	14.3% (0.4%, 57.9%)	14.3% (0.4%, 57.9%)	100% (59%, 100%)	100% (59%, 100%)
Efficiency	80% (78.3%, 81.6%)	80% (78.3%, 81.6%)	80% (78.3%, 81.6%)	84.8% (83.3%, 86.3%)	84.8% (83.3%, 86.3%)
	80% (80%, 80%)	80% (80%, 80%)	80% (80%, 80%)	90% (80%, 90%)	90% (80%, 90%)
	79%, 80%	79%, 80%	79%, 80%	71%, 90%	71%, 90%
Rounds	1 (1, 1.1)	1 (1, 1.1)	1 (1, 1.1)	5.8 (3.6, 8)	5.8 (3.6, 8)
	1 (1, 1)	1 (1, 1)	1 (1, 1)	1 (1, 11)	1 (1, 11)
	1, 2	1, 2	1, 2	1, 11	1, 11

