









SEAUPG 2024

11/19/2024











Recommendations to Raise the Grade

- Focus resources on preserving a state of good repair
- Increase funding from all levels of government
- **Develop** state and local level comprehensive transportation asset management **plans**

SEAUPG 2024

11/19/2024













SEAUPG 2024



















	BMD – enough said
	Contractor (and agency) can see the potential outcome of materials combinations
	High RAP
New	Not just high RAPengineered with BMD
Mixtures	Asphalt interlayer - RCRI
	US has had in place since 2000 Included in FHWA Every Day Count & TOP's program
	• Similar to interlayer (#4 mix), but lower AC and more open





Slide 25

ZMO See what you think of this [@Phillip Blankenship] Zack McKay, 2023-02-03T14:59:29.318

SEAUPG 2024

























Increase %AC (assuming typical PG) +++ +++ Lower PG +++ ++ Higher PG +++ Time Under Heat (oven or silo) +++ Increase RAP (generally stiffens) +++ Increase DP (dust-asphalt ratio) +++ ? High absorption agg +++ (soybean or corn oil) +++ ++ (soybean or corn oil) ++ ++	Factor	IDEAL-CT	HWT	Density
Higher PG ++ - Time Under Heat (oven or silo) +++ - Increase RAP (generally stiffens) +++ - Increase DP (dust-asphalt ratio) +++ ? High absorption agg +++ ? Recycling Agents - bio oil type (soybean or corn oil) ++ ++				· · ·
Time Under Heat (oven or silo) +++ - Increase RAP (generally stiffens) ++ - Increase DP (dust-asphalt ratio) ++ ? High absorption agg ++ Recycling Agents bio oil type (soybean or corn oil) ++ ++	Lower PG	++		+
Increase RAP (generally stiffens) ++ - Increase DP (dust-asphalt ratio) ++ ? High absorption agg ++ Recycling Agents bio oil type (soybean or corn oil) ++ ++	Higher PG		++	-
Increase DP (dust-asphalt ratio) +++ ? High absorption agg +++ Recycling Agents bio oil type +++ + (soybean or corn oil)	Time Under Heat (oven or silo)		+++	-
High absorption agg ++ Recycling Agents bio oil type ++ + (soybean or corn oil)	Increase RAP (generally stiffens)		++	-
Recycling Agents - bio oil type ++ + (soybean or corn oil)	Increase DP (dust-asphalt ratio)		++	?
(soybean or corn oil)	High absorption agg		++	
Warm Mix Asphalt (WMA) Additive + -? ++		++		+
	Warm Mix Asphalt (WMA) Additive	+	-?	++
	Thicker paving mat	NA	NA	+++















SEAUPG 2024













11/19/2024





